



PERATURAN

DIREKTUR JENDERAL INDUSTRI LOGAM, MESIN, ALAT TRANSPORTASI  
DAN ELEKTRONIKA

KEMENTERIAN PERINDUSTRIAN

NOMOR 3 TAHUN 2026

TENTANG

PERUBAHAN KEDUA ATAS PERATURAN DIREKTUR JENDERAL INDUSTRI  
LOGAM, MESIN, ALAT TRANSPORTASI DAN ELEKTRONIKA NOMOR 6  
TAHUN 2025 TENTANG RINCIAN KOMPONEN UTAMA BARANG SEKTOR  
INDUSTRI LOGAM, MESIN, ALAT TRANSPORTASI DAN ELEKTRONIKA  
UNTUK PENGHITUNGAN NILAI TINGKAT KOMPONEN DALAM NEGERI

DENGAN RAHMAT TUHAN YANG MAHA ESA

DIREKTUR JENDERAL INDUSTRI LOGAM, MESIN, ALAT TRANSPORTASI  
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Menimbang : a. bahwa sehubungan dengan adanya pemutakhiran data pada rincian komponen utama barang sektor industri logam, mesin, alat transportasi dan elektronika untuk penghitungan nilai tingkat komponen dalam negeri perlu melakukan penyesuaian dan perubahan terhadap rincian komponen utama sebagaimana diatur dalam Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi dan Elektronika Nomor 6 Tahun 2025 tentang Rincian Komponen Utama Barang Sektor Industri Logam, Mesin, Alat Transportasi Dan Elektronika Untuk Penghitungan Nilai Tingkat Komponen Dalam Negeri sebagaimana telah diubah dengan Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi dan Elektronika Nomor 2 Tahun 2026 tentang Perubahan atas Peraturan Direktur Jenderal Industri Logam, Mesin, Alat

- Transportasi dan Elektronika Nomor 6 Tahun 2025 tentang Rincian Komponen Utama Barang Sektor Industri Logam, Mesin, Alat Transportasi Dan Elektronika Untuk Penghitungan Nilai Tingkat Komponen Dalam Negeri, perlu dilakukan perubahan;
- b. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a, perlu menetapkan Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi Dan Elektronika tentang Perubahan Kedua atas Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi Dan Elektronika Nomor 6 Tahun 2025 tentang Rincian Komponen Utama Barang Sektor Industri Logam, Mesin, Alat Transportasi Dan Elektronika Untuk Penghitungan Nilai Tingkat Komponen Dalam Negeri;

Mengingat : 1. Undang-Undang Nomor 3 Tahun 2014 tentang Perindustrian (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 4, Tambahan Lembaran Negara Republik Indonesia Nomor 5492) sebagaimana telah beberapa kali diubah terakhir dengan Undang-Undang Nomor 6 Tahun 2023 tentang Penetapan Peraturan Pemerintah Pengganti Undang-Undang Nomor 2 Tahun 2022 tentang Cipta Kerja menjadi Undang-Undang (Lembaran Negara Republik Indonesia Tahun 2023 Nomor 41, Tambahan Lembaran Negara Republik Indonesia Nomor 6856);

2. Peraturan Pemerintah Nomor 29 Tahun 2018 tentang Pemberdayaan Industri (Lembaran Negara Republik Indonesia Tahun 2018 Nomor 101, Tambahan Lembaran Negara Republik Indonesia Nomor 6220);

3. Peraturan Pemerintah Nomor 28 Tahun 2021 tentang Penyelenggaraan Bidang Perindustrian (Lembaran Negara Republik Indonesia Tahun 2021 Nomor 38, Tambahan Lembaran Negara Republik Indonesia 6640) sebagaimana telah diubah dengan Peraturan

- Pemerintah Nomor 46 Tahun 2023 tentang Perubahan atas Peraturan Pemerintah Nomor 28 Tahun 2021 tentang Penyelenggaraan Bidang Perindustrian (Lembaran Negara Republik Indonesia Tahun 2023 Nomor 119, Tambahan Lembaran Negara Republik Indonesia 6891);
4. Peraturan Presiden Nomor 167 Tahun 2024 tentang Kementerian Perindustrian (Lembaran Negara Republik Indonesia Tahun 2024 Nomor 363);
  5. Peraturan Menteri Perindustrian Nomor 1 Tahun 2025 tentang Organisasi dan Tata Kerja Kementerian Perindustrian (Berita Negara Republik Indonesia Tahun 2025 Nomor 34);
  6. Peraturan Menteri Perindustrian Nomor 35 Tahun 2025 tentang Ketentuan dan Tata Cara Sertifikasi Tingkat Komponen Dalam Negeri dan Bobot Manfaat Perusahaan (Berita Negara Republik Indonesia Tahun 2025 Nomor 687);
  7. Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi, dan Elektronika Nomor 6 Tahun 2025 tentang Rincian Komponen Utama Barang Sektor Industri Logam, Mesin, Alat Transportasi Dan Elektronika Untuk Penghitungan Nilai Tingkat Komponen Dalam Negeri;

MEMUTUSKAN:

Menetapkan : PERATURAN DIREKTUR JENDERAL INDUSTRI LOGAM, MESIN, ALAT TRANSPORTASI DAN ELEKTRONIKA TENTANG PERUBAHAN KEDUA ATAS PERATURAN DIREKTUR JENDERAL INDUSTRI LOGAM, MESIN, ALAT TRANSPORTASI DAN ELEKTRONIKA NOMOR 6 TAHUN 2025 TENTANG RINCIAN KOMPONEN UTAMA BARANG SEKTOR INDUSTRI LOGAM, MESIN, ALAT TRANSPORTASI DAN ELEKTRONIKA UNTUK PENGHITUNGAN NILAI TINGKAT KOMPONEN DALAM NEGERI.

#### Pasal I

Rincian komponen utama barang sektor industri logam, mesin, alat transportasi, dan elektronika sebagaimana tercantum dalam Lampiran Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi dan Elektronika Nomor 6 Tahun 2025 tentang Rincian Komponen Utama Barang Sektor Industri Logam, Mesin, Alat Transportasi Dan Elektronika Untuk Penghitungan Nilai Tingkat Komponen Dalam Negeri sebagaimana telah diubah dengan Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi dan Elektronika Nomor 2 Tahun 2026 tentang Perubahan Peraturan Direktur Jenderal Industri Logam, Mesin, Alat Transportasi dan Elektronika Nomor 6 Tahun 2025 tentang Rincian Komponen Utama Barang Sektor Industri Logam, Mesin, Alat Transportasi Dan Elektronika Untuk Penghitungan Nilai Tingkat Komponen Dalam Negeri, diubah sehingga menjadi sebagaimana tercantum dalam Lampiran yang merupakan bagian tidak terpisahkan dari Peraturan Direktur Jenderal ini.

#### Pasal II

Peraturan Direktur Jenderal ini mulai berlaku pada tanggal ditetapkan.

Ditetapkan di Jakarta

pada tanggal 30 Juni 2026

DIREKTUR JENDERAL

INDUSTRI LOGAM, MESIN, ALAT  
TRANSPORTASI DAN ELEKTRONIKA,  
KEMENTERIAN PERINDUSTRIAN



SETIA DIARTA

LAMPIRAN  
PERATURAN DIREKTUR JENDERAL  
INDUSTRI LOGAM, MESIN, ALAT  
TRANSPORTASI DAN ELEKTRONIKA  
NOMOR 3 TAHUN 2026  
TENTANG  
PERUBAHAN KEDUA ATAS PERATURAN  
DIREKTUR JENDERAL INDUSTRI LOGAM,  
MESIN, ALAT TRANSPORTASI DAN  
ELEKTRONIKA NOMOR 6 TAHUN 2025  
TENTANG RINCIAN KOMPONEN UTAMA  
BARANG SEKTOR INDUSTRI LOGAM,  
MESIN, ALAT TRANSPORTASI DAN  
ELEKTRONIKA UNTUK PENGHITUNGAN  
NILAI TINGKAT KOMPONEN DALAM  
NEGERI

RINCIAN KOMPONEN UTAMA BARANG SEKTOR INDUSTRI LOGAM, MESIN,  
ALAT TRANSPORTASI DAN ELEKTRONIKA UNTUK PENGHITUNGAN NILAI  
TINGKAT KOMPONEN DALAM NEGERI

A. SEKTOR INDUSTRI LOGAM

1. 24101 – Industri Besi Dan Baja Dasar

| No | Jenis Barang | Uraian Komponen Utama                                          |
|----|--------------|----------------------------------------------------------------|
| 1  | Steel Billet | Skrap Baja                                                     |
|    |              | Iron Ore                                                       |
|    |              | Blok Aluminium / Kapur / Silicon Manganese                     |
| 2  | Steel Slab   | Skrap Baja                                                     |
|    |              | Iron Concentrate                                               |
|    |              | Direct Reduction Iron (DRI)                                    |
|    |              | Coal / Natural Gas                                             |
|    |              | Limestone                                                      |
|    |              | Burnt Limestone                                                |
|    |              | Slag Depressant                                                |
|    |              | Aluminium Pellet                                               |
|    |              | High Carbon FeMn / Low Carbon FeMn / FeMn / Medium Carbon FeMn |
|    |              | Desulfurizer                                                   |

## 2. 24102 – Penggilingan Baja

| No | Jenis Barang                                | Uraian Komponen Utama                             |
|----|---------------------------------------------|---------------------------------------------------|
| 1  | Baja Profil Canai Panas                     | Billet / Beam Blank / Bloom                       |
| 2  | Wire Rod                                    | Billet                                            |
| 3  | Wire Rope                                   | Wire                                              |
|    |                                             | Reel / Drum / Haspel                              |
| 4  | Baja Tulangan Beton                         | Billet                                            |
| 5  | Baja Pratekan – PC Bar                      | Wire Rod                                          |
| 6  | Baja Pratekan – (PC Wire / PC Strand)       | Wire Rod                                          |
|    |                                             | Reel / Drum / Haspel / Woven Slitting             |
| 7  | Steel Plate                                 | Steel Slab / Hot Rolled Coil                      |
| 8  | Hot Rolled Coil / Hot Rolled Sheet          | Slab                                              |
| 9  | Cold Rolled Coil / Cold Rolled Sheet        | Hot Rolled Coil                                   |
| 10 | Baja Lapis Seng (BjLS)                      | Hot Rolled Coil / Cold Rolled Coil                |
|    |                                             | Zinc Ingot                                        |
|    |                                             | Passivation Chemical                              |
|    |                                             | Surface Chemical                                  |
|    |                                             | Consumable Chemical                               |
| 11 | Baja Lapis Aluminium Seng (BjLAS)           | Cold Rolled Coil                                  |
|    |                                             | Aluminium Ingot                                   |
|    |                                             | Zinc Ingot                                        |
|    |                                             | Passivation Chemical                              |
|    |                                             | Surface Chemical                                  |
|    |                                             | Consumable Chemical                               |
| 12 | Baja Lapis Seng Aluminium Magnesium (BjLAM) | Cold Rolled Coil                                  |
|    |                                             | Zinc Ingot                                        |
|    |                                             | Aluminium Ingot                                   |
|    |                                             | Magnesium Ingot                                   |
|    |                                             | Passivation Chemical                              |
|    |                                             | Surface Chemical                                  |
|    |                                             | Consumable Chemical                               |
| 13 | Baja Lapis Warna                            | BjLS / BjLAS / BjLAM                              |
|    |                                             | Cat                                               |
|    |                                             | Surface Chemical                                  |
|    |                                             | Consumable Chemical                               |
| 14 | Baja Profil Las                             | Hot Rolled Coil / Cold Rolled Coil / Narrow Strip |
|    |                                             | Welding Consumable                                |
| 15 | Iron Wire / Steel Wire                      | Wire Rod                                          |
| 16 | Oil Tempered Wire                           | Wire Rod                                          |
|    |                                             | Oli                                               |
|    |                                             | Carrier                                           |
| 17 | Bead Wire                                   | Wire Rod                                          |
|    |                                             | Reel                                              |
|    |                                             | Pelapis / Coating                                 |
| 18 | Spring Wire                                 | Wire Rod                                          |
|    |                                             | Reel / Carrier / Paper Core Reel                  |

|    |                       |                   |
|----|-----------------------|-------------------|
|    |                       | Pelapis / Coating |
| 19 | Galvanized Steel Wire | Steel Wire        |
|    |                       | Haspel / Drum     |

| <b>3. 24103 – Industri Pipa dan Sambungan Pipa Dari Besi dan Baja</b> |                                                                                              |                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No</b>                                                             | <b>Jenis Barang</b>                                                                          | <b>Uraian Komponen Utama</b>                                                                                                                                                                                                              |
| 1                                                                     | Mother Pipe                                                                                  | Round Billet                                                                                                                                                                                                                              |
| 2                                                                     | Green Pipe                                                                                   | Round Billet / Mother Pipe                                                                                                                                                                                                                |
| 3                                                                     | Plain End Pipe Non Heat Treated                                                              | Green Pipe                                                                                                                                                                                                                                |
| 4                                                                     | Plain End Pipe Heat Treated                                                                  | Green Pipe                                                                                                                                                                                                                                |
| 5                                                                     | Finish Threaded Casing Pipe Seamless (Heat Treated / Non Heat Treated)                       | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated                                                                                                                                                                             |
|                                                                       |                                                                                              | Coupling / Flush Joint                                                                                                                                                                                                                    |
|                                                                       |                                                                                              | Protector                                                                                                                                                                                                                                 |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
|                                                                       |                                                                                              | Thread Compound                                                                                                                                                                                                                           |
| 6                                                                     | Finish Threaded Tubing Pipe Seamless (Heat Treated / Non Heat Treated/Upsetted/Non Upsetted) | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Plain End Pipe Heat Treated Upsetted / Plain End Pipe Heat Treated Non-Upsetted / Plain End Pipe Non Heat Treated Upsetted / Plain End Pipe Non Heat Treated Non-Upsetted |
|                                                                       |                                                                                              | Coupling / Flush Joint                                                                                                                                                                                                                    |
|                                                                       |                                                                                              | Protector                                                                                                                                                                                                                                 |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
|                                                                       |                                                                                              | Thread Compound                                                                                                                                                                                                                           |
| 7                                                                     | Conductor Pipe Seamless (Heat Treated / Non Heat Treated)                                    | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated                                                                                                                                                                             |
|                                                                       |                                                                                              | End cap                                                                                                                                                                                                                                   |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
| 8                                                                     | Line Pipe Seamless (Heat Treated / Non Heat Treated) Bevelled                                | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated                                                                                                                                                                             |
|                                                                       |                                                                                              | End Cap                                                                                                                                                                                                                                   |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
| 9                                                                     | Welded Pipe                                                                                  | Steel Plate / Steel Coil                                                                                                                                                                                                                  |
|                                                                       |                                                                                              | Welding Consumable                                                                                                                                                                                                                        |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
|                                                                       |                                                                                              | Protector / End Cap                                                                                                                                                                                                                       |
| 10                                                                    | Conductor Pipe Welded                                                                        | Steel Plate / Steel Coil                                                                                                                                                                                                                  |
|                                                                       |                                                                                              | Welding Consumable                                                                                                                                                                                                                        |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
|                                                                       |                                                                                              | Protector / End Cap                                                                                                                                                                                                                       |
|                                                                       |                                                                                              | Connector                                                                                                                                                                                                                                 |
| 11                                                                    | Line Pipe Welded                                                                             | Steel Plate / Steel Coil                                                                                                                                                                                                                  |
|                                                                       |                                                                                              | Welding Consumable                                                                                                                                                                                                                        |
|                                                                       |                                                                                              | Pelapis / Coating                                                                                                                                                                                                                         |
|                                                                       |                                                                                              | Protector / End Cap                                                                                                                                                                                                                       |
| 12                                                                    | Structural Welded Pipe                                                                       | Steel Plate / Steel Coil                                                                                                                                                                                                                  |

|    |                                                                                                       |                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                       | Welding Consumable                                                                                                                      |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Protector / End Cap                                                                                                                     |
| 13 | Seamless Tubing / Casing Coupling / Flow Coupling                                                     | Plain End Pipe / Steel Coupling Stock                                                                                                   |
|    |                                                                                                       | Storage Compound                                                                                                                        |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Phosphating Material                                                                                                                    |
|    |                                                                                                       | Protector                                                                                                                               |
| 14 | Casing / Tubing Pack Off                                                                              | Casing / Tubing                                                                                                                         |
|    |                                                                                                       | Hollow Bar Steel                                                                                                                        |
|    |                                                                                                       | Steel Plate                                                                                                                             |
|    |                                                                                                       | Fastener                                                                                                                                |
|    |                                                                                                       | Welding Consumable                                                                                                                      |
|    |                                                                                                       | Phosphating Material                                                                                                                    |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Rubber / Asbes                                                                                                                          |
| 15 | Inflatable Casing Packer                                                                              | Steel Coupling Stock                                                                                                                    |
|    |                                                                                                       | Hollow Bar Steel                                                                                                                        |
|    |                                                                                                       | Steel Plate                                                                                                                             |
|    |                                                                                                       | Rubber                                                                                                                                  |
|    |                                                                                                       | Phosphating Material                                                                                                                    |
| 16 | Flange                                                                                                | Rough Forging / Billet                                                                                                                  |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Protector                                                                                                                               |
| 17 | Fitting Forging                                                                                       | Rough Forging                                                                                                                           |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
| 18 | Fitting Buttweld                                                                                      | Seamless Pipe Plain End                                                                                                                 |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Protector                                                                                                                               |
| 19 | Thermal Expansion Joint / Safety Joint                                                                | Steel Coupling Stock                                                                                                                    |
|    |                                                                                                       | Solid Bar / Hollow Bar Steel                                                                                                            |
|    |                                                                                                       | Rubber                                                                                                                                  |
|    |                                                                                                       | Phosphating Material                                                                                                                    |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Fastener                                                                                                                                |
| 20 | Metal Expansion Joint                                                                                 | Flange Casting                                                                                                                          |
|    |                                                                                                       | Metal Bellow                                                                                                                            |
|    |                                                                                                       | Kawat Las                                                                                                                               |
|    |                                                                                                       | Pipe End / Sleeve                                                                                                                       |
| 21 | Finish Threaded Pup Joint Casing Seamless (Heat Treated / Non Heat Treated)                           | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated                                                                           |
|    |                                                                                                       | Coupling / Flush Joint                                                                                                                  |
|    |                                                                                                       | Protector                                                                                                                               |
|    |                                                                                                       | Pelapis / Coating                                                                                                                       |
|    |                                                                                                       | Thread Compound                                                                                                                         |
| 22 | Finish Threaded Pup Joint Tubing Seamless (Heat Treated / Non Heat Treated / Upsetted / Non Upsetted) | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Plain End Pipe Heat Treated Upsetted / Plain End Pipe Heat Treated Non- |

|    |                                                                                               |                                                                                                                                                                                                                                           |
|----|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                               | Upsetted / Plain End Pipe Non Heat Treated Upsetted / Plain End Pipe Non Heat Treated Non-Upsetted                                                                                                                                        |
|    |                                                                                               | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                               | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Pelapis / Coating                                                                                                                                                                                                                         |
|    |                                                                                               | Thread Compound                                                                                                                                                                                                                           |
| 23 | Finish Threaded Cross Over Seamless (heat treated / non heat treated)                         | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Hollow Bar Steel                                                                                                                                                          |
|    |                                                                                               | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                               | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Phosphating Material                                                                                                                                                                                                                      |
|    |                                                                                               | Pelapis / Coating                                                                                                                                                                                                                         |
| 24 | Pipe Nipple                                                                                   | Thread Compound                                                                                                                                                                                                                           |
|    |                                                                                               | Seamless Pipe Plain End Heat Treated / Seamless Pipe Plain End Pipe Non Heat Treated                                                                                                                                                      |
|    |                                                                                               | Round Bar                                                                                                                                                                                                                                 |
|    |                                                                                               | Pelapis / Coating                                                                                                                                                                                                                         |
| 25 | Seal Nipple / On-Off Tool                                                                     | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Hollow Bar / Solid Bar Steel                                                                                                                                                                                                              |
|    |                                                                                               | Phosphating Material                                                                                                                                                                                                                      |
| 26 | Pipe Base Screen                                                                              | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated                                                                                                                                                                             |
|    |                                                                                               | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                               | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Pelapis / Coating                                                                                                                                                                                                                         |
|    |                                                                                               | Thread Compound                                                                                                                                                                                                                           |
|    |                                                                                               | Round Wire Stainless Steel / Shroud                                                                                                                                                                                                       |
| 27 | Water Well Screen                                                                             | Wire Mesh / Ceramic / Sintered Mesh / Broadcast Mesh Gravel Sand                                                                                                                                                                          |
|    |                                                                                               | Round Wire Stainless Steel / Round Wire Carbon Steel                                                                                                                                                                                      |
| 28 | Pipe Bend                                                                                     | End Ring                                                                                                                                                                                                                                  |
|    |                                                                                               | Mother Pipe                                                                                                                                                                                                                               |
|    |                                                                                               | Pelapis / Coating                                                                                                                                                                                                                         |
| 29 | Finish Threaded Glass Reinforced Epoxy Tubing Pipe Seamless (Heat Treated / Non Heat Treated) | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Plain End Pipe Heat Treated Upsetted / Plain End Pipe Heat Treated Non-Upsetted / Plain End Pipe Non Heat Treated Upsetted / Plain End Pipe Non Heat Treated Non-Upsetted |
|    |                                                                                               | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                               | Protector                                                                                                                                                                                                                                 |
|    |                                                                                               | Pelapis / Coating                                                                                                                                                                                                                         |
|    |                                                                                               | Thread Compound                                                                                                                                                                                                                           |

|    |                                                                                                         |                                                                                                                                                                                                                                           |
|----|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                         | Glass Reinforced Epoxy Liner                                                                                                                                                                                                              |
|    |                                                                                                         | Corrosion Barrier Ring                                                                                                                                                                                                                    |
| 30 | Finish Threaded Glass Reinforced Epoxy Pup Joint Tubing Pipe Seamless (Heat Treated / Non Heat Treated) | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Plain End Pipe Heat Treated Upsetted / Plain End Pipe Heat Treated Non-Upsetted / Plain End Pipe Non Heat Treated Upsetted / Plain End Pipe Non Heat Treated Non-Upsetted |
|    |                                                                                                         | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                                         | Protector                                                                                                                                                                                                                                 |
|    |                                                                                                         | Pelapis / Coating                                                                                                                                                                                                                         |
|    |                                                                                                         | Thread Compound                                                                                                                                                                                                                           |
|    |                                                                                                         | Glass Reinforced Epoxy Liner                                                                                                                                                                                                              |
|    |                                                                                                         | Corrosion Barrier Ring                                                                                                                                                                                                                    |
| 31 | Finish Threaded Polyethylene Tubing Pipe Seamless (Heat Treated / Non Heat Treated)                     | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Plain End Pipe Heat Treated Upsetted / Plain End Pipe Heat Treated Non-Upsetted / Plain End Pipe Non Heat Treated Upsetted / Plain End Pipe Non Heat Treated Non-Upsetted |
|    |                                                                                                         | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                                         | Protector                                                                                                                                                                                                                                 |
|    |                                                                                                         | Pelapis / Coating                                                                                                                                                                                                                         |
|    |                                                                                                         | Thread Compound                                                                                                                                                                                                                           |
|    |                                                                                                         | Polyethylene Liner                                                                                                                                                                                                                        |
|    |                                                                                                         | Corrosion Barrier Ring                                                                                                                                                                                                                    |
| 32 | Finish Threaded Polyethylene Pup Joint Tubing Pipe Seamless (Heat Treated / Non Heat Treated)           | Plain End Pipe Heat Treated / Plain End Pipe Non Heat Treated / Plain End Pipe Heat Treated Upsetted / Plain End Pipe Heat Treated Non-Upsetted / Plain End Pipe Non Heat Treated Upsetted / Plain End Pipe Non Heat Treated Non-Upsetted |
|    |                                                                                                         | Coupling / Flush Joint                                                                                                                                                                                                                    |
|    |                                                                                                         | Protector                                                                                                                                                                                                                                 |
|    |                                                                                                         | Pelapis / Coating                                                                                                                                                                                                                         |
|    |                                                                                                         | Thread Compound                                                                                                                                                                                                                           |
|    |                                                                                                         | Polyethylene Liner                                                                                                                                                                                                                        |
|    |                                                                                                         | Corrosion Barrier Ring                                                                                                                                                                                                                    |
| 33 | Stop Collar Bevelled / Non-Bevelled Slip On                                                             | Plate                                                                                                                                                                                                                                     |
|    |                                                                                                         | Fastener                                                                                                                                                                                                                                  |
|    |                                                                                                         | Pelapis / Coating                                                                                                                                                                                                                         |
| 34 | Stop Collar Latch On / Slip On                                                                          | Plate                                                                                                                                                                                                                                     |
|    |                                                                                                         | Welding Consumable                                                                                                                                                                                                                        |
|    |                                                                                                         | Fastener                                                                                                                                                                                                                                  |
|    |                                                                                                         | Pelapis / Coating                                                                                                                                                                                                                         |
| 35 | Single Band / Rigid / Casing Centralizer Slip On                                                        | Plate / Coil                                                                                                                                                                                                                              |
|    |                                                                                                         | Welding Consumable                                                                                                                                                                                                                        |
|    |                                                                                                         | Pelapis / Coating                                                                                                                                                                                                                         |

|    |                                                                            |                              |
|----|----------------------------------------------------------------------------|------------------------------|
| 36 | Positive Rigid Casing Centralizer Latch On / Slip On (Welded / Non-Welded) | Plate / Coil / Sheet         |
|    |                                                                            | Welding Consumable           |
|    |                                                                            | Fastener                     |
|    |                                                                            | Pelapis / Coating            |
| 37 | Positive Rigid Straight / Spiral Type                                      | Cast Steel                   |
|    |                                                                            | Pelapis / Coating            |
| 38 | Guide Shoe                                                                 | Solid Bar / Hollow Bar Steel |
|    |                                                                            | Aluminium                    |
|    |                                                                            | Concrete                     |
|    |                                                                            | Phosphating Material         |
|    |                                                                            | Pelapis / Coating            |
| 39 | Dual Stage Cementing Collar                                                | Steel Coupling Stock         |
|    |                                                                            | Fastener                     |
|    |                                                                            | Aluminium                    |
|    |                                                                            | Rubber                       |
|    |                                                                            | Phosphating Material         |
| 40 | Stab In Stinger                                                            | Steel Coupling Stock         |
|    |                                                                            | Fastener                     |
|    |                                                                            | Aluminium                    |
| 41 | Cable Feedthru Tubing Hanger                                               | Rubber                       |
|    |                                                                            | Phosphating Material         |
|    |                                                                            | Solid Bar / Hollow Bar Steel |
|    |                                                                            | Steel Plate                  |
|    |                                                                            | Fastener                     |
| 42 | Gravel Pack Tool                                                           | Rubber                       |
|    |                                                                            | Phosphating Material         |
|    |                                                                            | Hollow Bar Steel             |
| 43 | Lead Seal Packer / Lead Seal Connector to Liner                            | Phosphating Material         |
|    |                                                                            | Fastener                     |
|    |                                                                            | Protector                    |
|    |                                                                            | Hollow Bar Steel             |
|    |                                                                            | Timbal                       |
| 44 | Swagging Tool / Setting Tool                                               | Phosphating Material         |
|    |                                                                            | Pelapis / Coating            |
|    |                                                                            | Rubber                       |
|    |                                                                            | Solid Bar / Hollow Bar Steel |
| 45 | Turbulizer Bow Spring Casing Centralizer                                   | Phosphating Material         |
|    |                                                                            | Pelapis / Coating            |
|    |                                                                            | Welding Consumable           |
|    |                                                                            | Fastener                     |
| 46 | Dual String Centralizer                                                    | Plate / Coil / Sheet         |
|    |                                                                            | Welding Consumable           |
|    |                                                                            | Fastener                     |
|    |                                                                            | Pelapis / Coating            |
| 47 | Bow Spring Casing Centralizer (Welded / Non Welded)                        | Plate / Coil / Sheet         |
|    |                                                                            | Welding Consumable           |
|    |                                                                            | Fastener                     |
|    |                                                                            | Pelapis / Coating            |

|    |                                                    |                                                                    |
|----|----------------------------------------------------|--------------------------------------------------------------------|
| 48 | Metal Petal Cement Basket                          | Plate / Coil / Sheet                                               |
|    |                                                    | Welding Consumable                                                 |
|    |                                                    | Fastener                                                           |
|    |                                                    | Pelapis / Coating                                                  |
| 49 | Special Clearance                                  | Plate / Coil                                                       |
|    |                                                    | Welding Consumable                                                 |
|    |                                                    | Fastener                                                           |
|    |                                                    | Pelapis / Coating                                                  |
| 50 | Rod Guide                                          | Solid Bar Steel                                                    |
|    |                                                    | Fastener                                                           |
|    |                                                    | Bandsaw                                                            |
|    |                                                    | Phosphating Material                                               |
|    |                                                    | Bromus                                                             |
|    |                                                    | Protector                                                          |
| 51 | Coupling / Sub Coupling Sucker Rod                 | Solid Bar Steel                                                    |
|    |                                                    | Phosphating Material                                               |
|    |                                                    | Protector                                                          |
| 52 | Shear Coupling                                     | Solid Bar Steel                                                    |
|    |                                                    | Fastener                                                           |
|    |                                                    | Kuningan                                                           |
|    |                                                    | Protector                                                          |
|    |                                                    | Phosphating Material                                               |
| 53 | Bull Plug                                          | Solid Bar / Hollow Bar Steel                                       |
|    |                                                    | Plat / Sheet                                                       |
|    |                                                    | Welding Consumable                                                 |
|    |                                                    | Phosphating Material                                               |
|    |                                                    | Pelapis / Coating                                                  |
| 54 | Break Off Plug (Part for ESP Tubing Bleeder Valve) | Round Bar Brass                                                    |
|    |                                                    | Rubber                                                             |
| 55 | Pipe Line Sleeve                                   | Plat / Sheet                                                       |
|    |                                                    | Pelapis / Coating                                                  |
| 56 | Elbow Sleeve                                       | Cast Steel                                                         |
|    |                                                    | Pelapis / Coating                                                  |
| 57 | Steel Pipe                                         | Billet / Hot Rolled Coil / Cold Rolled Coil / BjLAS / BjLS / BjLAM |
|    |                                                    | Pelapis / Coating                                                  |
|    |                                                    | Wire Flux                                                          |
| 58 | Wheeled Rod                                        | Body                                                               |
|    |                                                    | Jurnal Bearing                                                     |
|    |                                                    | Pin                                                                |
|    |                                                    | Fastener                                                           |
| 59 | Drill Pipes                                        | Plain End Drill Pipe                                               |
|    |                                                    | Hardbanding wire                                                   |
|    |                                                    | Protector                                                          |
|    |                                                    | Pelapis / Coating                                                  |
|    |                                                    | Thread Compound                                                    |
| 60 | Drill Collar                                       | Plain End Drill Pipe                                               |
|    |                                                    | Hardbanding wire                                                   |
|    |                                                    | Protector                                                          |
|    |                                                    | Pelapis / Coating                                                  |
|    |                                                    | Thread Compound                                                    |

|    |                        |                                         |
|----|------------------------|-----------------------------------------|
| 61 | Subsea Pipe Connector  | Body Forged Steel                       |
|    |                        | Rubber                                  |
|    |                        | Fastener                                |
|    |                        | Pelapis / Coating                       |
|    |                        | Cathodic Protection                     |
|    |                        | Lifting Lug                             |
|    |                        | Drain Plug                              |
| 62 | Clamp Pipe             | Body Casting Steel                      |
|    |                        | Rubber                                  |
|    |                        | Fastener                                |
|    |                        | Cathodic Protection                     |
|    |                        | Pelapis / Coating                       |
|    |                        | Plat                                    |
| 63 | Fabric Expansion Joint | Fabric Bellows / High Temperature Cloth |
|    |                        | Plat                                    |
|    |                        | Kawat Las                               |
|    |                        | Fastener                                |
| 64 | Metal Gasket           | Plat / Round Bar                        |
|    |                        | Filler                                  |
|    |                        | Coating / Pelapis                       |

**4. 24202 – Industri Logam Dasar Bukan Besi Lainnya**

| No | Jenis Barang                       | Uraian Komponen Utama                               |
|----|------------------------------------|-----------------------------------------------------|
| 1  | Aluminium Ingot / Aluminium Billet | Alumina                                             |
|    |                                    | Skrap Aluminium                                     |
|    |                                    | Paduan Logam                                        |
| 2  | Batangan Kuningan                  | Ingot / Skrap Tembaga                               |
|    |                                    | Ingot / Skrap Zinc                                  |
|    |                                    | Ingot / Skrap Timbal                                |
|    |                                    | Skrap Besi                                          |
|    |                                    | Skrap Timah                                         |
|    |                                    | Skrap Kuningan                                      |
| 3  | Katoda Tembaga                     | Konsentrat Tembaga                                  |
|    |                                    | Batu Kapur                                          |
|    |                                    | Pasir Silika                                        |
|    |                                    | Batubara                                            |
|    |                                    | Solar                                               |
|    |                                    | Natrium Hidroksida (NaOH)                           |
|    |                                    | Hidrogen Peroksida (H <sub>2</sub> O <sub>2</sub> ) |
| 4  | Terak Tembaga                      | Konsentrat Tembaga                                  |
|    |                                    | Batu Kapur                                          |
|    |                                    | Pasir Silika                                        |
|    |                                    | Batubara                                            |
|    |                                    | Solar                                               |
|    |                                    | Natrium Hidroksida (NaOH)                           |
|    |                                    | Hidrogen Peroksida (H <sub>2</sub> O <sub>2</sub> ) |
| 5  | Terak Telurida                     | Konsentrat Tembaga                                  |
|    |                                    | Batu Kapur                                          |
|    |                                    | Pasir Silika                                        |
|    |                                    | Batubara                                            |

|   |              |                                                     |
|---|--------------|-----------------------------------------------------|
| 6 | Lumpur Anoda | Solar                                               |
|   |              | Natrium Hidroksida (NaOH)                           |
|   |              | Hidrogen Peroksida (H <sub>2</sub> O <sub>2</sub> ) |
|   |              | Konsentrat Tembaga                                  |
|   |              | Batu Kapur                                          |
|   |              | Pasir Silika                                        |
|   |              | Batubara                                            |
|   |              | Solar                                               |
|   |              | Natrium Hidroksida (NaOH)                           |
|   |              | Hidrogen Peroksida (H <sub>2</sub> O <sub>2</sub> ) |

**5. 24203 – Penggilingan Logam Bukan Besi**

| No | Jenis Barang                                                                                               | Uraian Komponen Utama                 |
|----|------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1  | Aluminium Plate                                                                                            | Aluminium Ingot / Aluminium Slab      |
| 2  | Batang Tembaga (Copper Rod)                                                                                | Katoda Tembaga                        |
|    |                                                                                                            | Skrup Tembaga                         |
| 3  | Batang Aluminium (Aluminium Rod)                                                                           | Aluminium Ingot                       |
|    |                                                                                                            | Skrup aluminium                       |
|    |                                                                                                            | Master Alloy                          |
| 4  | Bare Copper Conductor (BCC)                                                                                | Rod Tembaga                           |
|    |                                                                                                            | Haspel / Drum                         |
| 5  | Alumunium Bare Conductor dengan inti composite (termasuk namun tidak terbatas pada HTLS, ACCC, HVRC, ACFR) | Rod Aluminium                         |
|    |                                                                                                            | Composite Core                        |
|    |                                                                                                            | Haspel / Drum                         |
| 6  | Optical Ground Wire                                                                                        | Aluminium Alloy Rod                   |
|    |                                                                                                            | Steel Wire                            |
|    |                                                                                                            | Stainless Steel Tube / Aluminium Tube |
|    |                                                                                                            | Wire Fiber Optic                      |
|    |                                                                                                            | Haspel / Drum                         |
| 7  | Konduktor Transmisi High Voltage                                                                           | Rod Aluminium A2C                     |
|    |                                                                                                            | Steel Wire / ACS                      |
|    |                                                                                                            | Haspel / Drum Kayu                    |

**6. 24204 – Ekstrusi Logam Bukan Besi**

| No | Jenis Barang                                    | Uraian Komponen Utama |
|----|-------------------------------------------------|-----------------------|
| 1  | Aluminium Ekstrusi (Mill Finish)                | Billet                |
| 2  | Aluminium Ekstrusi (Anodizing / Powder Coating) | Billet                |
|    |                                                 | Pelapis / Coating     |
|    |                                                 | Pickling Agent        |
| 3  | Busbar Tembaga                                  | Rod Tembaga           |

**7. 24310 – Pengecoran Besi dan Baja**

| No | Jenis Barang      | Uraian Komponen Utama |
|----|-------------------|-----------------------|
| 1  | Besi dan Baja Cor | Skrup Besi / Baja     |
|    |                   | Kokas                 |
|    |                   | Pelapis / Coating     |
|    |                   | Pasir Resin           |

**8. 24320 – Pengecoran Logam Bukan Besi dan Baja**

| No | Jenis Barang                                                                                                     | Uraian Komponen Utama           |
|----|------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1  | Logam Cor Bukan Besi dan Baja (namun tidak terbatas pada breket, housing set, pump casing, Cylinder Block, Case) | Ingot Logam Bukan Besi dan Baja |
|    |                                                                                                                  | Skrap Logam Bukan Besi dan Baja |
|    |                                                                                                                  | Pelapis / Coating               |
| 2  | Zinc Anoda                                                                                                       | Zinc Ingot                      |
|    |                                                                                                                  | Aluminium Ingot                 |
|    |                                                                                                                  | Cadmium                         |
|    |                                                                                                                  | Plat                            |

**9. 25111 – Industri Produk Logam Struktural Bukan Aluminium Konstruksi Ringan**

| No | Jenis Barang                                                   | Uraian Komponen Utama                                         |
|----|----------------------------------------------------------------|---------------------------------------------------------------|
| 1  | Kolom Praktis                                                  | Wire Rod                                                      |
|    |                                                                | Baja Tulangan Beton                                           |
|    |                                                                | Wire Mesh                                                     |
|    |                                                                | Kawat Pengikat                                                |
| 2  | Pagar                                                          | Wire Rod / Wire Galvanis                                      |
|    |                                                                | Steel Pipe / Besi Hollow                                      |
|    |                                                                | Pelapis / Coating                                             |
|    |                                                                | Fastener                                                      |
| 3  | Siku Lubang / Slotted Angle                                    | Hot Rolled Coil / Plat                                        |
|    |                                                                | Fastener                                                      |
|    |                                                                | Pelapis / Coating                                             |
| 4  | Siku Sama Kaki                                                 | Billet / Bloom                                                |
| 5  | Aksesoris Atap Metal (Metal Furing, Nok, Talang, Tight Frame)  | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna |
| 6  | Floor Deck / Bondeck                                           | BjLS / BjLAS                                                  |
| 7  | Spandek / Roofdeck                                             | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna |
| 8  | Spandek Berpasir / Spandek Berbatu                             | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna |
|    |                                                                | Pasir / Batu                                                  |
|    |                                                                | Resin / Perekat                                               |
| 9  | Genteng Metal / Genteng Metal Berpasir / Genteng Metal Berbatu | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna |
|    |                                                                | Pasir / Batu                                                  |
|    |                                                                | Resin / Perekat                                               |
| 10 | Steel Grating                                                  | Steel Flat Bar                                                |
|    |                                                                | Wire Rod                                                      |
|    |                                                                | Zinc Ingot                                                    |
|    |                                                                | Fastener                                                      |
| 11 | Sandwich Panel                                                 | BjLS Warna / BjLAS Warna / BjLAM Warna                        |

|    |                                             |                                                                                  |
|----|---------------------------------------------|----------------------------------------------------------------------------------|
|    |                                             | Expanded Polystyrene (EPS) / Concrete / Poly Urethane / Polyisocyanurate (PIR)   |
|    |                                             | Pengikat / Perekat                                                               |
| 12 | Expanded Metal                              | Hot Rolled Coil / Cold Rolled Coil / BjLS / BjLAS / BjLAM / Plat Aluminium       |
| 13 | Pintu Baja                                  | BjLS / BjLAS / BjLAM / Plat Baja                                                 |
|    |                                             | Engsel                                                                           |
|    |                                             | Fastener                                                                         |
|    |                                             | Pelapis / Coating                                                                |
|    |                                             | Kaca / Plat Timbal                                                               |
| 14 | Rangka Pintu / Rangka Jendela / Rangka Atap | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAM Warna                                  |
|    |                                             | Fastener                                                                         |
|    |                                             | Pelapis / Coating                                                                |
| 15 | Rolling Door                                | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna                    |
|    |                                             | Besi Siku                                                                        |
|    |                                             | Bottom Rail                                                                      |
|    |                                             | Pipa                                                                             |
|    |                                             | Kawat Baja                                                                       |
| 16 | Pintu Tahan Api                             | BjLS / BjLAS / BjLAM / Hot Rolled Coil / Cold Rolled Coil                        |
|    |                                             | Engsel                                                                           |
|    |                                             | Fastener                                                                         |
|    |                                             | Pelapis / Coating                                                                |
|    |                                             | Rockwool / Vermiculite                                                           |
|    |                                             | Panic Bar                                                                        |
| 17 | Guard Rail                                  | Hot Rolled Coil / BjLS                                                           |
|    |                                             | Fastener                                                                         |
|    |                                             | Zinc Ingot                                                                       |
| 18 | Gorong - Gorong                             | Steel Plate / BjLS / BjLAS / BjLAM                                               |
|    |                                             | Fastener                                                                         |
|    |                                             | Zinc Ingot                                                                       |
| 19 | Prefabricated Building                      | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna / Hot Rolled Plate |
|    |                                             | Pintu                                                                            |
|    |                                             | Jendela                                                                          |
|    |                                             | Kaca                                                                             |
|    |                                             | Engsel                                                                           |
|    |                                             | Fastener                                                                         |
|    |                                             | Pelapis / Coating                                                                |
|    |                                             | H-Beam                                                                           |
| 20 | Rangka Prefabrikasi Berbasis Baja Lapis     | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna                    |
|    |                                             | Fastener                                                                         |
|    |                                             | Bracket                                                                          |

|    |                                                                      |                                                                                 |
|----|----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 21 | Roofing and Walling (Partisi / Wall Clading)                         | BjLS / BjLAS / BjLAM / BjLS Warna / BjLAS Warna / BjLAM Warna / Aluminium Plate |
| 22 | Ducting Flange Joint atau TDF Joint                                  | BjLS / BjLAS / BjLAM                                                            |
|    |                                                                      | Fastener                                                                        |
|    |                                                                      | Besi Siku                                                                       |
| 23 | Damper atau Volume Damper                                            | BjLS / BjLAS / BjLAM                                                            |
|    |                                                                      | Fastener                                                                        |
|    |                                                                      | Besi Siku                                                                       |
|    |                                                                      | Round Bar                                                                       |
|    |                                                                      | Pelapis / Coating                                                               |
| 24 | Arm Tie Siku / Siku Penyangga                                        | Plat Baja / Siku                                                                |
|    |                                                                      | Fastener                                                                        |
|    |                                                                      | Galvanis                                                                        |
| 25 | Arm Tie Pipe                                                         | Pipa Baja                                                                       |
|    |                                                                      | Fastener                                                                        |
|    |                                                                      | Pelapis / Coating                                                               |
| 26 | Scaffolding                                                          | Pipa                                                                            |
|    |                                                                      | Plat                                                                            |
|    |                                                                      | Fastener                                                                        |
|    |                                                                      | Pelapis / Coating                                                               |
| 27 | Profil Baja Ringan (Hollow, Reng, Truss, Kanal C, T (Top Hat), U, Z) | BjLS / BjLAS / BjLAM                                                            |
| 28 | Raised Floor                                                         | Panel Raised Floor                                                              |
|    |                                                                      | Pipa Baja                                                                       |
|    |                                                                      | Besi Beton                                                                      |
|    |                                                                      | Fastener                                                                        |
|    |                                                                      | Plat Baja                                                                       |
|    |                                                                      | Welding Consumable                                                              |

**10. 25112 – Industri Produk Logam Struktural Aluminium Untuk Konstruksi Ringan**

| No | Jenis Barang                                              | Uraian Komponen Utama  |
|----|-----------------------------------------------------------|------------------------|
| 1  | Pintu Aluminium                                           | Aluminium Ekstrusi     |
|    |                                                           | Engsel                 |
|    |                                                           | Kaca                   |
|    |                                                           | Fastener               |
|    |                                                           | Pelapis / Coating      |
| 2  | Jendela Aluminium                                         | Aluminium Ekstrusi     |
|    |                                                           | Engsel                 |
|    |                                                           | Kaca                   |
|    |                                                           | Fastener               |
|    |                                                           | Pelapis / Coating      |
| 3  | Rangka Pintu / Rangka Jendela Aluminium / Kusen Aluminium | Aluminium Ekstrusi     |
|    |                                                           | Fastener               |
|    |                                                           | Pelapis / Coating      |
| 4  | Aluminium Wall Cladding                                   | Aluminium Coil / Plate |
|    |                                                           | Biji Plastik           |
|    |                                                           | Protective Film        |
|    |                                                           | Fastener               |

|   |                           |                  |
|---|---------------------------|------------------|
|   |                           | Pipa Hollow      |
|   |                           | Besi Siku        |
|   |                           | Spigot Aluminium |
| 5 | Aluminium Composite Panel | Protective Film  |
|   |                           | Adhesive Film    |
|   |                           | Aluminium Coil   |
|   |                           | Polyethylene     |
| 6 | Aluminium Solid Panel     | Hollow           |
|   |                           | Siku             |
|   |                           | Fastener         |

**11. 25113 – Industri Produk Logam Struktural Baja Untuk Konstruksi Berat**

| No | Jenis Barang                           | Uraian Komponen Utama           |
|----|----------------------------------------|---------------------------------|
| 1  | Jembatan                               | Profil Baja                     |
|    |                                        | Floor Deck                      |
|    |                                        | H-Beam                          |
|    |                                        | Besi Siku                       |
|    |                                        | Rubber                          |
|    |                                        | Plat Baja                       |
|    |                                        | Stud Anchor                     |
|    |                                        | Besi Beton / Round Bar          |
|    |                                        | Pelapis / Coating               |
| 2  | Sheet Pile                             | Billet / Bloom                  |
| 3  | Angkur Tiang / Angkur Tower            | Besi Beton                      |
|    |                                        | Fastener                        |
|    |                                        | Coating / Galvanis              |
| 4  | Tower                                  | Steel Plate                     |
|    |                                        | Pipa                            |
|    |                                        | Baja Profil                     |
|    |                                        | Baja Profil Siku                |
|    |                                        | Steel Angle                     |
|    |                                        | Besi Beton / Round Bar          |
|    |                                        | Fastener                        |
| 5  | Tower Transmisi                        | Coating / Galvanis / Zinc Ingot |
|    |                                        | Steel Plate                     |
|    |                                        | Steel Angle / Profil            |
|    |                                        | Besi Beton                      |
|    |                                        | Fastener                        |
| 6  | Tower Telekomunikasi                   | Galvanis                        |
|    |                                        | Steel Plate                     |
|    |                                        | Steel Angle / Profil            |
|    |                                        | Besi Beton                      |
| 7  | Prefabricated Steel Structure Platform | Fastener                        |
|    |                                        | Plat                            |
|    |                                        | Pipa                            |
|    |                                        | Baja Profil                     |
|    |                                        | Besi Beton / Round Bar          |
|    |                                        | Coating / Pelapis               |
|    |                                        | Roofing / Roofdeck              |

|   |               |                   |
|---|---------------|-------------------|
| 8 | Frontal Frame | Plat              |
|   |               | PE Pad            |
|   |               | Fastener          |
|   |               | Pelapis / Coating |

## 12. 25119 – Industri Produk Logam Struktural Lainnya

| No | Jenis Barang                                                                                                                      | Uraian Komponen Utama        |
|----|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 1  | Cable Tray / Cable Ladder                                                                                                         | Plat                         |
|    |                                                                                                                                   | Fastener                     |
| 2  | Scaffolding                                                                                                                       | Pipa                         |
|    |                                                                                                                                   | Plat                         |
|    |                                                                                                                                   | Fastener                     |
|    |                                                                                                                                   | Pelapis / Coating            |
| 3  | Steel Racking For Storage System                                                                                                  | Plat                         |
|    |                                                                                                                                   | Pipa                         |
|    |                                                                                                                                   | Fastener                     |
|    |                                                                                                                                   | Pelapis / Coating            |
| 4  | Cross Arm                                                                                                                         | Plat / Siku Baja / Canal UNP |
|    |                                                                                                                                   | Fastener                     |
|    |                                                                                                                                   | Pelapis / Coating            |
| 5  | Angkur Tiang / Angkur Tower                                                                                                       | Besi Beton                   |
|    |                                                                                                                                   | Fastener                     |
|    |                                                                                                                                   | Pelapis / Coating            |
| 6  | Tiang (termasuk namun tidak terbatas pada tiang listrik, tiang PJU, tiang APILL, tiang telekomunikasi, tiang bendera, power pole) | Pipa / Plat Baja             |
|    |                                                                                                                                   | Besi Beton                   |
|    |                                                                                                                                   | Pelapis / Coating            |
|    |                                                                                                                                   | Dop (Tutup)                  |
|    |                                                                                                                                   | Manset (Lakop)               |
|    |                                                                                                                                   | Fastener                     |
|    |                                                                                                                                   | Kawat                        |
| 7  | Clamp Hook                                                                                                                        | Plat                         |
|    |                                                                                                                                   | Round Bar / Ring             |
|    |                                                                                                                                   | Kawat Las                    |
|    |                                                                                                                                   | Fastener                     |
| 8  | Dead End                                                                                                                          | Ingot / Skrap Aluminium      |
|    |                                                                                                                                   | Kawat Sling Baja             |
|    |                                                                                                                                   | Plastik                      |
| 9  | Puling Grip Helical                                                                                                               | Ingot / Skrap Aluminium      |
|    |                                                                                                                                   | Plat                         |
|    |                                                                                                                                   | Kawat                        |
| 10 | Suspension Corong                                                                                                                 | Ingot / Skrap Aluminium      |
|    |                                                                                                                                   | Fastener                     |
|    |                                                                                                                                   | Rubber                       |
| 11 | S Clamp Springer                                                                                                                  | Round Bar                    |
|    |                                                                                                                                   | Plat                         |
|    |                                                                                                                                   | Plastik                      |
| 12 | Stainless Belt Lengkap                                                                                                            | Plat                         |
|    |                                                                                                                                   | Round Bar                    |
|    |                                                                                                                                   | Kawat Las                    |
| 13 | Tembereng Tarik                                                                                                                   | Kawat Sling Baja             |
|    |                                                                                                                                   | Ingot / Skrap Aluminium      |

|    |                                                                                                                                                                                                                  |                                           |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
|    |                                                                                                                                                                                                                  | Round Bar                                 |
|    |                                                                                                                                                                                                                  | Plat                                      |
|    |                                                                                                                                                                                                                  | Fastener                                  |
| 14 | Spanner                                                                                                                                                                                                          | Ingot / Skrap Aluminium                   |
|    |                                                                                                                                                                                                                  | Pengait                                   |
|    |                                                                                                                                                                                                                  | Penghubung                                |
| 15 | Klem (termasuk namun tidak terbatas pada Beugel U, Double Guy Wire Band, Ground Wire Clamp, Single Arm Band, Double Arm Band, Single Guy Wire Band, Band Pole, Ornament Band, Guy Wire Rod, Band Pole Secondary) | Plat Besi                                 |
|    |                                                                                                                                                                                                                  | Baja Tulangan Beton                       |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Welding Consumable                        |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 16 | Buldog                                                                                                                                                                                                           | Ingot / Skrap Aluminium                   |
|    |                                                                                                                                                                                                                  | Round Bar                                 |
|    |                                                                                                                                                                                                                  | Fastener                                  |
| 17 | Brace Steel                                                                                                                                                                                                      | Plat Baja / Siku                          |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 18 | Pole Band                                                                                                                                                                                                        | Plat Baja / Siku                          |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 19 | Bracket                                                                                                                                                                                                          | Plat Logam / Siku Baja / Canal UNP / Pipa |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 20 | Steel L                                                                                                                                                                                                          | Plat Baja / Siku                          |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 21 | PV Mounting                                                                                                                                                                                                      | Aluminium Profil                          |
|    |                                                                                                                                                                                                                  | Profil Baja CNP                           |
|    |                                                                                                                                                                                                                  | Profil Hollow                             |
|    |                                                                                                                                                                                                                  | Fastener                                  |
| 22 | Screwpile                                                                                                                                                                                                        | Pipa Baja                                 |
|    |                                                                                                                                                                                                                  | Besi Flat Strip                           |
|    |                                                                                                                                                                                                                  | Plat                                      |
|    |                                                                                                                                                                                                                  | Welding Consumable                        |
| 23 | Single Channel / Unistrut                                                                                                                                                                                        | Plat Baja                                 |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 24 | Penghalang Panjat                                                                                                                                                                                                | Plat Besi                                 |
|    |                                                                                                                                                                                                                  | Baja Tulangan Beton                       |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 25 | Strain Hook                                                                                                                                                                                                      | Plat Besi                                 |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |
| 26 | Turn Buckle                                                                                                                                                                                                      | Plat Besi                                 |
|    |                                                                                                                                                                                                                  | Baja Tulangan Beton                       |
|    |                                                                                                                                                                                                                  | Fastener                                  |
|    |                                                                                                                                                                                                                  | Pelapis / Coating                         |

|    |                                 |                     |
|----|---------------------------------|---------------------|
| 27 | U Bolt                          | Baja Tulangan Beton |
|    |                                 | Fastener            |
|    |                                 | Pelapis / Coating   |
| 28 | U Strap                         | Plat Baja           |
|    |                                 | Pelapis / Coating   |
| 29 | Stang Ornamen                   | Pipa Baja           |
|    |                                 | Fastener            |
|    |                                 | Pelapis / Coating   |
| 30 | Travers                         | Canal UNP           |
|    |                                 | Plat Besi           |
|    |                                 | Fastener            |
|    |                                 | Pelapis / Coating   |
| 31 | Serandang Trafo / Dudukan Trafo | Canal UNP           |
|    |                                 | Plat Besi           |
|    |                                 | Pipa                |
|    |                                 | Besi Siku           |
|    |                                 | Papan Tanda Bahaya  |
|    |                                 | Penghalang Panjat   |
|    |                                 | Kawat Las           |
|    |                                 | Fastener            |
|    |                                 | Pelapis / Coating   |
| 32 | Grounding Rod                   | Round Bar           |
|    |                                 | Fastener            |
|    |                                 | Pelapis / Coating   |
| 33 | Bollard                         | Skrup Logam         |
|    |                                 | Ingot Logam         |
|    |                                 | Plat                |
|    |                                 | Pipa                |
|    |                                 | Akrilik             |
|    |                                 | Lampu               |
|    |                                 | Fitting Lampu       |
|    |                                 | Pelapis / Coating   |
|    |                                 | Kabel               |
| 34 | Delineator                      | Pipa                |
|    |                                 | Plat                |
|    |                                 | Reflektor           |
|    |                                 | Besi Siku           |
|    |                                 | Pelapis / Coating   |
| 35 | Formwork                        | Plat                |
|    |                                 | Pipa                |
|    |                                 | Hollow Steel        |
|    |                                 | Round Bar           |
|    |                                 | Plywood             |
|    |                                 | Pasak               |
|    |                                 | Pelapis / Coating   |
| 36 | Grating Fastener                | Plat                |
|    |                                 | Fastener            |
|    |                                 | Pelapis / Coating   |
| 37 | Anode Clamp                     | Plat                |
|    |                                 | Round Bar           |
|    |                                 | Fastener            |

|    |                       |                                        |
|----|-----------------------|----------------------------------------|
|    |                       | Kawat Las                              |
|    |                       | Pelapis / Coating                      |
| 38 | Arm Tie               | Plat Besi / Pipa Besi / Siku Besi      |
|    |                       | Pelapis / Coating                      |
| 39 | Arm Tie Band          | Plat Besi                              |
|    |                       | Pelapis / Coating                      |
| 40 | Chousen / Thimble     | Plat Baja                              |
|    |                       | Pelapis / Coating                      |
| 41 | Rambu Suar            | Plat                                   |
|    |                       | Pipa                                   |
|    |                       | Round Bar                              |
|    |                       | Profil Baja                            |
|    |                       | Welding Consumable                     |
|    |                       | Lampu                                  |
|    |                       | Fastener                               |
|    |                       | Pelapis / Coating                      |
| 42 | Penyangga Pipa        | Clamp / Plate                          |
|    |                       | Penyangga Pipa / Pipa Besi             |
|    |                       | Base Plate / Plate                     |
| 43 | Ground Screw          | Base Plate / Plate                     |
|    |                       | Body / Pipa Besi                       |
|    |                       | Screw Plate / Plate                    |
| 44 | Penyangga Modul Surya | Base Plate / Plate                     |
|    |                       | Tiang Penyangga Vertikal / Pipa Besi   |
|    |                       | Tiang Penyangga Horizontal / Pipa Besi |
|    |                       | Tiang Penguat / Pipa Besi              |
|    |                       | Mounting Modul Surya / Plate           |

**13. 25120 – Industri Tangki, Tandon Air dan Wadah Sejenisnya Dari Logam**

| No | Jenis Barang | Uraian Komponen Utama       |
|----|--------------|-----------------------------|
| 1  | Tabung Gas   | Top Tube                    |
|    |              | Bottom Tube                 |
|    |              | Body Tabung / Plat / Coil   |
|    |              | Footring                    |
|    |              | Hand Guard                  |
|    |              | Neckring                    |
|    |              | Valve                       |
|    |              | Wire Welding / Sand Welding |
|    |              | Seal Tape Steelshot         |
|    |              | Batu Slep                   |
|    |              | Pelapis / Coating           |

**14. 25910 – Penempaan, Pengepresan, Pencetakan, dan Pembentukan Logam; Metalurgi Bubuk**

| No | Jenis Barang                      | Uraian Komponen Utama              |
|----|-----------------------------------|------------------------------------|
| 1  | Forging Steel                     | Ingot / Bloom / Billet / Round Bar |
| 2  | Clamp Protector / Cable Protector | Plat                               |
|    |                                   | Fastener                           |
|    |                                   | Kawat Las                          |
|    |                                   | Casting Body Bracket               |

|   |               |                   |
|---|---------------|-------------------|
| 3 | Orifice Plate | Plat              |
| 4 | Calmp         | Plat              |
|   |               | Fastener          |
|   |               | Socket            |
|   |               | Pin               |
|   |               | Rubber            |
|   |               | Pelapis / Coating |
| 5 | Joint Plate   | Plat              |
| 6 | Steel Tape    | BjLS              |

**15. 25920 – Pengerjaan dan Pelapisan Logam**

| No | Jenis Barang | Uraian Komponen Utama |
|----|--------------|-----------------------|
| 1  | Metal Gasket | Plat / Round Bar      |
|    |              | Filler                |
|    |              | Coating / Pelapis     |

**16. 25940 – Industri Ember, Kaleng, Drum dan Wadah Sejenisnya Dari Logam**

| No | Jenis Barang               | Uraian Komponen Utama           |
|----|----------------------------|---------------------------------|
| 1  | Kaleng Tinsplate           | Tinsplate / Tin Free Steel      |
|    |                            | Tutup / Alas Kaleng             |
|    |                            | Printing Ink (Offset Ink)       |
|    |                            | Pelapis / Coating               |
| 2  | Kaleng Drawn Can           | Tin Free Steel                  |
|    |                            | Tutup                           |
|    |                            | Printing Ink (Offset Pink)      |
|    |                            | Pelapis / Coating               |
| 3  | Kaleng Aluminium (2PC Can) | Aluminium Rigid Container Sheet |
|    |                            | Tutup                           |
|    |                            | Printing Ink (Offset Ink)       |
|    |                            | Pelapis / Coating               |
| 4  | Drum Besi                  | Plat Baja                       |
|    |                            | Tutup                           |
|    |                            | Pelapis / Coating               |

**17. 25951 – Industri Barang Dari Kawat Logam Bukan Kabel**

| No | Jenis Barang           | Uraian Komponen Utama                        |
|----|------------------------|----------------------------------------------|
| 1  | Kawat Bendrat          | Wire Rod                                     |
| 2  | Kawat Bronjong         | Wire                                         |
|    |                        | Pelapis / Coating                            |
| 3  | Wire Mesh              | Wire Rod / Wire Galvanis                     |
| 4  | Jaring Kawat Harmonika | Wire Galvanis / Kawat Lapis PVC              |
| 5  | Kawat Silet            | Sheet Galvanized / Sheet Zinc Aluminium      |
|    |                        | Galvanized Wire / Zinc Aluminium Wire        |
|    |                        | Clip Razor                                   |
| 6  | Kawat Berduri          | Galvanized Wire / Wire Rod / Kawat Lapis PVC |
| 7  | Kawat Las              | Wire Rod                                     |
|    |                        | Potassium Silicate                           |

|    |                                       |                                       |
|----|---------------------------------------|---------------------------------------|
|    |                                       | Sodium Silicate                       |
|    |                                       | Metal Powder                          |
| 8  | Wire Rope                             | Wire                                  |
|    |                                       | Reel / Drum / Haspel                  |
| 9  | Baja Pratekan – PC Bar                | Wire Rod                              |
| 10 | Baja Pratekan – (PC Wire / PC Strand) | Wire Rod                              |
|    |                                       | Reel / Drum / Haspel / Woven Slitting |
| 11 | Pilinan Kawat Baja                    | Wire / Wire Galvanis                  |
|    |                                       | Reel / Drum / Haspel                  |
|    |                                       | Pelapis / Coating                     |
| 12 | Bronjong Kawat (Gabion Box)           | Wire                                  |
|    |                                       | Pelapis / Coating                     |
| 13 | Bronjong Geo Mattres                  | Kawat Bronjong                        |
|    |                                       | Wire Rope                             |
|    |                                       | Geomattress                           |

#### 18. 25952 – Industri Paku, Mur dan Baut Logam

| No | Jenis Barang                                                              | Uraian Komponen Utama                    |
|----|---------------------------------------------------------------------------|------------------------------------------|
| 1  | Fastener (Paku)                                                           | Wire Rod                                 |
|    |                                                                           | Round Bar                                |
|    |                                                                           | Pelapis / Coating                        |
| 2  | Fastener (Sekrup / Mur / Baut / Spring / Rivet / Anchor Bolt / Stud Bolt) | Wire Rod                                 |
|    |                                                                           | Round Bar                                |
|    |                                                                           | Pelapis / Coating                        |
| 3  | Fastener (Washer)                                                         | Sheet Plate / Wire Rod / Hot Rolled Coil |
|    |                                                                           | Pelapis / Coating                        |
| 4  | Friction Bolt                                                             | Hot Rolled Coil                          |
|    |                                                                           | Pelapis / Coating                        |
|    |                                                                           | Ring                                     |

#### 19. 25991 – Industri Brankas, Filling Kantor dan Sejenisnya

| No | Jenis Barang                                                                                                                                                                                            | Uraian Komponen Utama                                                                                                       |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 1  | Lemari Besi / Lemari Arsip / Filling Cabinet Tahan Api                                                                                                                                                  | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)                                                       |
|    |                                                                                                                                                                                                         | Concrete (sebagai komponen insulasi)                                                                                        |
|    |                                                                                                                                                                                                         | Fastener / Kawat Las / Adjuster / Engsel / Kunci / Rail / Handle / Coating (sebagai alat pendukung)                         |
| 2  | Lemari Kantor (termasuk namun tidak terbatas pada Mobile File / Roll Pack / Lemari Arsip / Lemari Pasien / Locker / Lemari Damkar / Lemari Obat / Lemari Laboratorium / Lemari Senjata / Tools Cabinet) | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)                                                       |
|    |                                                                                                                                                                                                         | Plat Logam / Kayu / Plywood / MDF / Particle Board / Poly Urethane / Plastic / Mesh / Profil / Kaca (sebagai komponen alas) |
|    |                                                                                                                                                                                                         | Plat Logam / Kayu / Plywood / MDF / Particle Board / Poly Urethane / Plastic / Mesh / Profil (sebagai komponen pintu)       |

|   |                                     |                                                                                                                                                                                                                                                                                                                               |
|---|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                     | Fastener / Kawat Las / Roda / Adjuster/ Engsel / Kunci / Rail / Handle / HPL / Veneer / Edging / MMGF / MFC / Foot / Coating (sebagai alat pendukung)                                                                                                                                                                         |
| 3 | Filling Cabinet / Drawer / Pedestal | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)<br>Plat Logam / Kayu / Plywood / MDF / Particle Board (sebagai komponen laci)<br>Fastener / Kawat Las / Roda / Adjuster / Engsel / Kunci / Rail / Handle / HPL / Veneer / Edging / MMGF / MFC / Poly Urethane / Foot / Coating (sebagai alat pendukung) |

**20. 25992 – Industri Peralatan Dapur dan Peralatan Meja Dari Logam**

| No | Jenis Barang                   | Uraian Komponen Utama |
|----|--------------------------------|-----------------------|
| 1  | Food Tray                      | Plat Stainless Steel  |
| 2  | Panci                          | Plat Logam            |
|    |                                | Fastener              |
|    |                                | Handle                |
|    |                                | Knob                  |
|    |                                | Kaca                  |
|    |                                | Steamer               |
|    |                                | Pelapis / Coating     |
| 3  | Wajan                          | Plat Logam            |
|    |                                | Fastener              |
|    |                                | Handle                |
|    |                                | Knob                  |
|    |                                | Kaca                  |
|    |                                | Strainer              |
|    |                                | Pelapis / Coating     |
| 4  | Sendok / Garpu                 | Plat Logam            |
|    |                                | Isolator              |
| 5  | Pisau                          | Plat Logam            |
|    |                                | Isolator              |
| 6  | Botol Besi                     | Plat Logam            |
| 7  | Piring / Gelas / Mangkuk Logam | Plat Logam            |
|    |                                | Pelapis / Coating     |
| 8  | Baskom Logam                   | Plat Logam            |
|    |                                | Pelapis / Coating     |
| 9  | Mug Logam                      | Plat Logam            |
|    |                                | Handle                |
|    |                                | Knob                  |
|    |                                | Pelapis / Coating     |
| 10 | Teko                           | Plat Logam            |
|    |                                | Fastener              |
|    |                                | Handle                |

|    |                         |                   |
|----|-------------------------|-------------------|
|    |                         | Knob              |
|    |                         | Pelapis / Coating |
| 11 | Sutil Logam             | Plat Logam        |
|    |                         | Isolator          |
| 12 | Penjepit Logam          | Plat Logam        |
|    |                         | Isolator          |
| 13 | Centong Logam           | Plat Logam        |
|    |                         | Isolator          |
| 14 | Nampan / Food Pan Logam | Plat Logam        |
|    |                         | Pelapis / Coating |
| 15 | Wadah Makan / Rantang   | Plat Logam        |
|    |                         | Fastener          |
|    |                         | Isolator          |
|    |                         | Pelapis / Coating |

**21. 25993 – Industri Produk Rumah Tangga Dari Logam Bukan Peralatan Dapur dan Peralatan Meja**

| No | Jenis Barang                                                                                                         | Uraian Komponen Utama                                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Rak (termasuk namun tidak terbatas pada Rak Buku / Rak Arsip / Rak Serbaguna / Rak Dinding / Rak Sepatu / Rak Dapur) | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)                                                                          |
|    |                                                                                                                      | Plat Logam / Kayu / Plywood / MDF / Particle Board / Poly Urethane / Plastic / Mesh / Profil (sebagai komponen alas)                           |
|    |                                                                                                                      | Fastener / Kawat Las / Roda / Adjuster / Engsel / Kunci/ Handle / HPL / Veneer / Edging / MMGF / MFC / Foot / Coating (sebagai alat pendukung) |
| 2  | Tempat Sampah                                                                                                        | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai body)                                                                                   |
|    |                                                                                                                      | Fastener / Kawat Las / Roda / Engsel / Handle / Foot Pedal / Coating (sebagai alat pendukung)                                                  |
| 3  | Tangga                                                                                                               | Pipa / Hollow / Profil / Plat Logam (sebagai body)                                                                                             |
|    |                                                                                                                      | Fastener / Kawat Las / Roda / Foot / Safety Lock / Plastik / Rubber / Coating (sebagai alat pendukung)                                         |
| 4  | Troli                                                                                                                | Pipa / Hollow / Profil / Plat Logam (sebagai body)                                                                                             |
|    |                                                                                                                      | Fastener / Kawat Las / Roda / Kain / Kanvas / Engsel / Kunci / Handle / Coating (sebagai alat pendukung)                                       |
| 5  | Kitchensink / Bak Cuci Piring                                                                                        | Pipa / Hollow / Profil / Plat Logam (sebagai komponen body)                                                                                    |
|    |                                                                                                                      | Fastener / Kawat Las / Roda / Adjuster / Engsel / HPL / Veneer / Edging / MMGF / MFC / Foot / Coating (sebagai alat pendukung)                 |

|    |                                 |                   |
|----|---------------------------------|-------------------|
| 6  | Gantungan / Pengait Kamar Mandi | Ingot / Rod       |
|    |                                 | Pipa Logam        |
|    |                                 | Fastener          |
|    |                                 | Plat Logam        |
|    |                                 | Pelapis / Coating |
| 7  | Keranjang Sabun                 | Ingot / Rod       |
|    |                                 | Pipa Logam        |
|    |                                 | Fastener          |
|    |                                 | Plat Logam        |
|    |                                 | Pelapis / Coating |
| 8  | Pancuran Logam                  | Ingot / Rod       |
|    |                                 | Pipa Logam        |
|    |                                 | Plastik / Rubber  |
|    |                                 | Pelapis / Coating |
| 9  | Pegangan Pengaman Kamar Mandi   | Ingot / Rod       |
|    |                                 | Pipa Logam        |
|    |                                 | Pelapis / Coating |
| 10 | Saluran Pembuangan Lantai       | Ingot / Rod       |
|    |                                 | Plat Logam        |
|    |                                 | Pelapis / Coating |

**22. 25999 – Industri Produk Logam Lainnya YTDL**

| No | Jenis Barang             | Uraian Komponen Utama |
|----|--------------------------|-----------------------|
| 1  | Silent Box               | Plat Baja             |
|    |                          | Baja Profil           |
|    |                          | Busa / Rockwool       |
|    |                          | Pelapis / Coating     |
|    |                          | Fastener              |
| 2  | Dudukan Genset Open Type | Plat Baja             |
|    |                          | Baja Profil           |
|    |                          | Busa / Rockwool       |
|    |                          | Pelapis / Coating     |
|    |                          | Fastener              |
| 3  | Core Transformator       | Steel Coil            |
|    |                          | Baja Profil           |
|    |                          | Fastener              |
|    |                          | Pelapis / Coating     |

**23. 27320 – Industri Kabel dan Kawat Listrik dan Elektronik Lainnya**

| No | Jenis Barang                           | Uraian Komponen Utama        |
|----|----------------------------------------|------------------------------|
| 1  | Kabel Listrik Low Voltage Armoured     | Rod Tembaga / Rod Aluminium  |
|    |                                        | PVC / XLPE                   |
|    |                                        | Flat Steel Tape / Steel Wire |
|    |                                        | Haspel / Drum Kayu           |
| 2  | Kabel Listrik Low Voltage Non Armoured | Rod Tembaga / Rod Aluminium  |
|    |                                        | PVC / XLPE                   |
|    |                                        | Haspel / Drum Kayu           |
| 3  | Kabel Listrik Twisted LVTC             | Rod Aluminium A2C            |
|    |                                        | XLPE                         |
|    |                                        | Steel Wire                   |

|    |                                                              |                                               |
|----|--------------------------------------------------------------|-----------------------------------------------|
|    |                                                              | Haspel / Drum Besi                            |
| 4  | Kabel Listrik Building Wire Single Core                      | Rod Tembaga                                   |
|    |                                                              | PVC                                           |
|    |                                                              | Haspel / Drum Kayu / Coil                     |
|    |                                                              |                                               |
| 5  | Kabel Listrik Building Wire Multi Core                       | Rod Tembaga                                   |
|    |                                                              | PVC                                           |
|    |                                                              | Haspel / Drum Kayu / Coil                     |
|    |                                                              |                                               |
| 6  | Kabel Listrik Konduktor Distribusi Medium Voltage            | Rod Aluminium A3C                             |
|    |                                                              | XLPE                                          |
|    |                                                              | Haspel / Drum Kayu                            |
|    |                                                              |                                               |
| 7  | Kabel Listrik Medium Voltage Armoured                        | Rod Tembaga / Rod Aluminium                   |
|    |                                                              | XLPE MV / EPR MV                              |
|    |                                                              | PVC / XLPE / LSZH                             |
|    |                                                              | Flat Steel Tape / Steel Wire / Aluminium Wire |
|    |                                                              | Copper Tape                                   |
|    |                                                              | Haspel / Drum Kayu                            |
|    |                                                              |                                               |
| 8  | Kabel Listrik Medium Voltage Non Armoured                    | Rod Tembaga / Rod Aluminium                   |
|    |                                                              | XLPE MV                                       |
|    |                                                              | PVC / XLPE                                    |
|    |                                                              | Haspel / Drum Kayu                            |
| 9  | Kabel Listrik High Voltage Non Armoured                      | Rod Tembaga / Rod Aluminium                   |
|    |                                                              | XLPE MV                                       |
|    |                                                              | Aluminium Tape / Seamless / Leadsheet         |
|    |                                                              | HDPE / XLPE                                   |
|    |                                                              | Haspel / Drum Besi                            |
| 10 | Busbar Tembaga                                               | Rod Tembaga                                   |
| 11 | Enamelled Copper Wire                                        | Rod Tembaga                                   |
|    |                                                              | Bahan Pelapis (Poliester dan bahan lainnya)   |
|    |                                                              | Bobin Plastik / Fiber                         |
| 12 | Enamelled Alumunium Wire                                     | Rod Aluminium                                 |
|    |                                                              | Bahan Pelapis (Poliester dan bahan lainnya)   |
|    |                                                              | Bobin Plastik / Fiber                         |
| 13 | Paper Insulated Aluminium Wire / Paper Insulated Copper Wire | Rod Aluminium / Rod Tembaga                   |
|    |                                                              | Insulating Paper                              |
|    |                                                              | Bobin                                         |

#### 24. 27530 – Industri Peralatan Rumah Tangga Bukan Listrik

| No | Jenis Barang                                          | Uraian Komponen Utama |
|----|-------------------------------------------------------|-----------------------|
| 1  | Kompor Gas Komersil (tekanan rendah / tekanan tinggi) | Plat Logam            |
|    |                                                       | Pipa                  |
|    |                                                       | Grid / Casting Logam  |
|    |                                                       | Burner                |
|    |                                                       | Gas Valve             |
|    |                                                       | Nozzle                |
|    |                                                       | Fastener              |
|    |                                                       | Kawat Las             |

|   |                                                     |            |
|---|-----------------------------------------------------|------------|
|   |                                                     | Knob       |
|   |                                                     | Kemasan    |
| 2 | Kompor Gas Rumah Tangga (atas meja, tanam, berdiri) | Plat Logam |
|   |                                                     | Grid       |
|   |                                                     | Burner     |
|   |                                                     | Gas Valve  |
|   |                                                     | Nozzle     |
|   |                                                     | Pipa Gas   |
|   |                                                     | Fastener   |
|   |                                                     | Kawat Las  |
|   |                                                     | Knob       |
|   |                                                     | Kaki       |
|   |                                                     | Kemasan    |
| 3 | Kompor Gas Portable                                 | Plat Logam |
|   |                                                     | Grid       |
|   |                                                     | Burner     |
|   |                                                     | Gas Valve  |
|   |                                                     | Nozzle     |
|   |                                                     | Fastener   |
|   |                                                     | Kawat Las  |
|   |                                                     | Knob       |
|   |                                                     | Kemasan    |
| 4 | Pengering Peralatan Makan                           | Plat       |
|   |                                                     | Hollow     |
|   |                                                     | Pipa       |
|   |                                                     | Roda       |
|   |                                                     | Thermostat |
|   |                                                     | Kunci      |
|   |                                                     | Burner     |
|   |                                                     | Fastener   |

**25. 28130 - Industri Pompa Lainnya, Kompresor, Keran, dan Klep/Katup**

| No | Jenis Barang                                                                                                                                                                                                                                | Uraian Komponen Utama                 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1  | Keran Logam (termasuk namun tidak terbatas pada keran wastafel, keran dapur, keran bak rendam, keran pancuran genggam, keran suplai tanam, keran suplai mesin cuci, keran semprot bidet, pancuran kolom, stop keran, keran dispenser sabun) | Badan Keran (Body)                    |
|    |                                                                                                                                                                                                                                             | Aerator                               |
|    |                                                                                                                                                                                                                                             | Handle                                |
|    |                                                                                                                                                                                                                                             | Kartrid (Cartridge) / Valve (Spindle) |
|    |                                                                                                                                                                                                                                             | Fitting Limbah (Waste Fitting)        |
|    |                                                                                                                                                                                                                                             | Pelapis / Coating                     |
|    |                                                                                                                                                                                                                                             | Stang                                 |
|    |                                                                                                                                                                                                                                             | Gasket                                |
|    |                                                                                                                                                                                                                                             | Fastener                              |
|    |                                                                                                                                                                                                                                             | Topi Keran                            |
| 2  | Plug Keran Air Dari Logam                                                                                                                                                                                                                   | Body                                  |
|    |                                                                                                                                                                                                                                             | Klep / Seat                           |
|    |                                                                                                                                                                                                                                             | Fastener                              |
| 3  | Kopling Meter Air                                                                                                                                                                                                                           | Casting Kuningan                      |
|    |                                                                                                                                                                                                                                             | Karet Packing                         |

|   |                                              |             |
|---|----------------------------------------------|-------------|
| 4 | Gate Valve (untuk pengaliran air / sanitasi) | Body        |
|   |                                              | Klep / Seat |
|   |                                              | Topi        |
|   |                                              | Stang       |
|   |                                              | Gasket      |
|   |                                              | Handle      |
|   |                                              | Fastener    |

## 26. 31022 – Industri Furnitur Dari Logam

| No | Jenis Barang                                                                                                                                                                                                                                                                                                                                                                                                 | Uraian Komponen Utama                                                                                                                                                                                                                    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Meja (termasuk namun tidak terbatas pada Meja Kerja / Meja Makan / Meja Rapat / Meja Serbaguna / Meja Siswa / Meja Komputer / Meja Laboratorium / Meja Dapur / Meja Guru / Meja Resepsionis / Meja Belajar / Meja Dokter / Meja Pasien / Meja Konsultasi / Meja Baca / Meja Gambar / Meja Praktek / Meja Kantin / Meja Lipat / Meja Setrika / Meja Work Station / Meja Kerja Bangku / Meja Café / Meja Rias) | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen rangka)                                                                                                                                                                  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Logam / MDF / Plywood / Particle Board/Kayu Solid / Kaca / Resin / Marmer (sebagai komponen permukaan meja)                                                                                                                              |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Fastener / Kawat Las / Roda / Kunci / Laci / Handle / Engsel / Power Plug / Stop Kontak / Tray / Under Shelf / Cabinet / Acrylic / Foam / Kain / HPL / Veneer / Edging / MMGF / MFC / Phenolic / Foot / Coating (sebagai alat pendukung) |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                          |
| 2  | Kursi (termasuk namun tidak terbatas pada Kursi Kerja / Kursi Susun / Kursi Tamu / Kursi Tunggu / Kursi Siswa / Kursi Lipat (memo) / Kursi Serbaguna / Kursi Direktur / Kursi Staff / Kursi Rapat / Kursi Makan /Kursi Hadap / Kursi Kuliah / Kursi Stadion / Kursi Auditorium / Kursi Guru / Kursi Taman / Kursi Laboratorium)                                                                              | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai rangka)                                                                                                                                                                           |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Plat Logam / Kayu / MDF / Plywood / Particle Board / Poly Urethane / Plastik / Mesh (sebagai komponen alas duduk dan / atau sandaran)                                                                                                    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Fastener / Kawat Las / Roda / Adjuster / Gas Lift / Seat Mechanism / Engsel / Foam / Kain / HPL / Veneer / Edging / MMGF / MFC / Kulit / Oscar / Foot / Coating (sebagai alat pendukung)                                                 |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                          |
| 3  | Lemari (termasuk namun tidak terbatas pada Mobile File / Roll Pack / Lemari Arsip / Lemari Dapur (Kitchen Set) / Lemari Pasien / Locker / Lemari Serbaguna / Lemari Pakaian / Lemari Damkar / Lemari Obat / Lemari Laboratorium / Lemari Senjata / Lemari Makanan / Tools Cabinet)                                                                                                                           | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen rangka)                                                                                                                                                                  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Plat Logam / Kayu / Plywood / MDF / Particle Board / Poly Urethane / Plastic / Mesh / Profil / Kaca (sebagai komponen alas)                                                                                                              |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Plat Logam / Kayu / Plywood / MDF / Particle Board / Poly Urethane / Plastic / Mesh / Profil (sebagai komponen pintu)                                                                                                                    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                              | Fastener / Kawat Las / Roda / Adjuster/ Engsel / Kunci / Rail / Handle / HPL / Veneer / Edging / MMGF / MFC / Foot / Coating (sebagai alat pendukung)                                                                                    |
| 4  | Filling Cabinet / Drawer / Pedestal                                                                                                                                                                                                                                                                                                                                                                          | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)                                                                                                                                                                    |

|   |                                                                                                                      |                                                                                                                                                                        |
|---|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                      | Plat Logam / Kayu / Plywood / MDF / Particle Board (sebagai komponen laci)                                                                                             |
|   |                                                                                                                      | Fastener / Kawat Las / Roda / Adjuster / Engsel / Kunci / Rail / Handle / HPL / Veneer / Edging / MMGF / MFC / Poly Urethane / Foot / Coating (sebagai alat pendukung) |
| 5 | Rak (termasuk namun tidak terbatas pada Rak Buku / Rak Arsip / Rak Serbaguna / Rak Dinding / Rak Sepatu / Rak Dapur) | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)                                                                                                  |
|   |                                                                                                                      | Plat Logam / Kayu / Plywood / MDF / Particle Board / Poly Urethane / Plastic / Mesh / Profil (sebagai komponen alas)                                                   |
|   |                                                                                                                      | Fastener / Kawat Las / Roda / Adjuster / Engsel/ Kunci/ Handle / HPL / Veneer / Edging / MMGF / MFC / Foot / Coating (sebagai alat pendukung)                          |
| 6 | Rangka Tempat Tidur                                                                                                  | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen rangka)                                                                                                |
|   |                                                                                                                      | Plat Logam / Pipa Logam / Kayu / Plywood / MDF / Particle Board (sebagai komponen alas)                                                                                |
|   |                                                                                                                      | Fastener / Kawat Las / Roda / Adjuster / Engsel/ HPL / Veneer / Edging / MMGF / MFC / Foot / Coating (sebagai alat pendukung)                                          |
| 7 | Tempat Sampah                                                                                                        | Pipa / Hollow / Profil / Plat / Casting Logam (sebagai komponen body)                                                                                                  |
|   |                                                                                                                      | Fastener / Kawat Las / Roda / Engsel / Handle / Foot Pedal / Coating (sebagai alat pendukung)                                                                          |

## B. SEKTOR INDUSTRI PERMESINAN DAN ALAT MESIN PERTANIAN

### 1. 25113 – Industri Konstruksi Berat Siap Pasang dari Baja untuk Bangunan

| No | Jenis Barang | Uraian Komponen Utama     |
|----|--------------|---------------------------|
| 1  | Garbarata    | Aluminium Composite Panel |
|    |              | Baja Profil WF            |
|    |              | Besi Hollow/ RHS          |
|    |              | Besi Siku                 |
|    |              | Bronze                    |
|    |              | Channel / Cannal Profile  |
|    |              | Fastener                  |
|    |              | Fiberglass                |
|    |              | H- beam                   |
|    |              | Kaca / Glass              |
|    |              | Karet Lembaran            |
|    |              | Motor / Dinamo            |

|   |           |                                               |
|---|-----------|-----------------------------------------------|
|   |           | Pipa                                          |
|   |           | Plat Aluminium                                |
|   |           | Plat Baja/ Steel Plate/ Stainless Steel Plate |
|   |           | Round Bar                                     |
|   |           | Sistem Elektrik                               |
| 2 | Pintu Air | As Kuningan                                   |
|   |           | Bearing                                       |
|   |           | Besi Beton                                    |
|   |           | Besi Bulat/As                                 |
|   |           | Besi Cor - Blok                               |
|   |           | Besi Plate                                    |
|   |           | Besi Siku                                     |
|   |           | Besi UNP/Kanal                                |
|   |           | Besi WF                                       |
|   |           | Chain Coupling                                |
|   |           | Fastener                                      |
|   |           | Gembok                                        |
|   |           | Kabel                                         |
|   |           | Kayu                                          |
|   |           | Limit Switch                                  |
|   |           | Motor                                         |
|   |           | Painting                                      |
|   |           | Panel Listrik                                 |
|   |           | Pipa Besi Gas Medium                          |
|   |           | Rantai Besi                                   |
|   |           | Roda Gigi                                     |
|   |           | Seal Karet                                    |

**2. 25120 – Industri Tangki, Tandon Air, dan Wadah dari Logam**

| No | Jenis Barang                         | Uraian Komponen Utama                   |
|----|--------------------------------------|-----------------------------------------|
| 1  | CO <sub>2</sub> Removal Membran Skid | Housing Shell                           |
|    |                                      | Instrumen - DPI                         |
|    |                                      | Ball Valve                              |
|    |                                      | Instrument - Flow Indicator Transmitter |
|    |                                      | Instrument - PI                         |
|    |                                      | Flange A105                             |
|    |                                      | Pipe Seamless                           |
|    |                                      | Globe Valve                             |
|    |                                      | Gasket Spiral Wound                     |
|    |                                      | Retentate Ring                          |
|    |                                      | Orifice Plate                           |
|    |                                      | Lip Seal                                |
|    |                                      |                                         |
| 2  | Heat Exchanger Tipe Shell & Tube     | Shells                                  |
|    |                                      | Head Cover / Cover Flange / Flat Head   |
|    |                                      | Tube                                    |
|    |                                      | Tube Sheet                              |
|    |                                      | Body Cover                              |
|    |                                      | Head Channel                            |

|   |                                        |                                                                                                                                              |
|---|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                        | Saddle /Mounting                                                                                                                             |
|   |                                        | Channel                                                                                                                                      |
|   |                                        | Gasket                                                                                                                                       |
|   |                                        | Bolt and Nut                                                                                                                                 |
|   |                                        | Baffles                                                                                                                                      |
|   |                                        | Baffles Support Rod / Spacer                                                                                                                 |
|   |                                        | Lifting                                                                                                                                      |
|   |                                        | Nozzle (Flange, Pipe, Coupling)                                                                                                              |
|   |                                        | Painting                                                                                                                                     |
|   |                                        | Insulation                                                                                                                                   |
| 3 | Heat Exchanger Tipe Air Cooler         | Hood / Plenum                                                                                                                                |
|   |                                        | Fan Ring                                                                                                                                     |
|   |                                        | Fan                                                                                                                                          |
|   |                                        | Return Header                                                                                                                                |
|   |                                        | Tube Bundle                                                                                                                                  |
|   |                                        | Drive Assembly (Motor, Gear Box)                                                                                                             |
|   |                                        | Structure                                                                                                                                    |
|   |                                        | Outlet Nozzle                                                                                                                                |
|   |                                        | Outlet Header                                                                                                                                |
|   |                                        | Inlet Header                                                                                                                                 |
|   |                                        | Inlet Nozzle                                                                                                                                 |
|   |                                        | Painting                                                                                                                                     |
|   |                                        | Louvers                                                                                                                                      |
| 4 | Pressure Vessel                        | Shell                                                                                                                                        |
|   |                                        | Man Hole                                                                                                                                     |
|   |                                        | Dish Head                                                                                                                                    |
|   |                                        | Saddle, Skirt, Leg                                                                                                                           |
|   |                                        | Nozzle                                                                                                                                       |
|   |                                        | Painting                                                                                                                                     |
|   |                                        | Structure (Skid, Platform Ladder)                                                                                                            |
|   |                                        | Internal Part (Screen, Meshpad, Vane Pack, Baffle, Sand Jetting, Filter, Cartridge, Inlet Device, Anode, Vortex Breaker, Weir Plat, Cyclone) |
|   |                                        | Gasket                                                                                                                                       |
|   |                                        | Bolt & Nut                                                                                                                                   |
| 5 | Pressure Vessel Column (Internal Part) | Mist Eliminator                                                                                                                              |
|   |                                        | Random Packing                                                                                                                               |
|   |                                        | Tray                                                                                                                                         |
|   |                                        | Distributor                                                                                                                                  |
|   |                                        | Wiremesh                                                                                                                                     |
|   |                                        | Inlet Device                                                                                                                                 |
|   |                                        | Support Grid                                                                                                                                 |
|   |                                        | Hardware                                                                                                                                     |
|   |                                        | Vane Inlet                                                                                                                                   |
| 6 | Pig Launcher / Pig Receiver            | Pipe                                                                                                                                         |
|   |                                        | Nozzle                                                                                                                                       |
|   |                                        | Quick Opening Closure                                                                                                                        |
|   |                                        | Saddle                                                                                                                                       |
| 7 | Air Pressure Heater                    | Frame                                                                                                                                        |

|   |                      |                               |
|---|----------------------|-------------------------------|
|   |                      | Material Penyambung Las       |
|   |                      | Seamless Tube                 |
|   |                      | Support                       |
|   |                      | Tube sheet                    |
| 8 | Bolted Steel Tank    | Air Vent                      |
|   |                      | Besi Channel/ CNP             |
|   |                      | Besi Siku                     |
|   |                      | Coating                       |
|   |                      | Column Support                |
|   |                      | Fastener                      |
|   |                      | H Beam                        |
|   |                      | Lisplang                      |
|   |                      | Manhole Roof                  |
|   |                      | Plat Baja                     |
|   |                      | Rabung                        |
|   |                      | Sealant / Anti Bocor Body     |
|   |                      | Sikabond / Anti Bocor Fondasi |
|   |                      | Sikatop                       |
|   |                      | Spandek / Atap                |
|   |                      | Water Level Indicator         |
| 9 | High Pressure Heater | Baffle                        |
|   |                      | Channel Head                  |
|   |                      | Frame                         |
|   |                      | Material Penyambung Las       |
|   |                      | Seamless Tube                 |
|   |                      | Shell                         |
|   |                      | Support                       |
|   |                      | Tube Sheet                    |

**3. 26511 – Industri Alat Ukur dan Alat Uji Manual**

| No | Jenis Barang               | Uraian Komponen Utama    |
|----|----------------------------|--------------------------|
| 1  | Meter Air Mekanik          | Badan Meter Air          |
|    |                            | Alat Hitung              |
|    |                            | Sensor Aliran dan Volume |
|    |                            | Alat Penunjuk            |
|    |                            | Kepala Meter Air         |
|    |                            | Inner Peralatan          |
| 2  | Meter Air Elektronik       | Badan Meter Air          |
|    |                            | Alat Hitung              |
|    |                            | Sensor Aliran dan Volume |
|    |                            | Alat Penunjuk Digital    |
|    |                            | Inner Peralatan          |
|    |                            | Peralatan Elektronik     |
|    |                            | Sumber Tenaga            |
| 3  | Measuring Tape / Pita Lila | Pengait (Hook)           |
|    |                            | Pita Ukur (Tape)         |
|    |                            | Tombol (Push Button)     |
|    |                            | Wadah (Casing)           |

|   |              |                                                  |
|---|--------------|--------------------------------------------------|
| 4 | Stadiometer  | Alas / Dudukan / Pijakan (Base Plate)            |
|   |              | Mistar Baca (Tiang Skala Pengukur)               |
|   |              | Pembatas Kepala (Head Stopper / Slider)          |
|   |              | Pengunci Dinding (Wall Stopper)                  |
| 5 | Infantometer | Papan Dasar (Base Board) dengan Skala Ukuran     |
|   |              | Papan Geser Kaki (Foot Slider / Footpiece)       |
|   |              | Papan Kepala Tetap (Head Topper/Fixed Headpiece) |

**4. 26512 – Industri Alat Ukur dan Alat Uji Elektrik**

| No | Jenis Barang                         | Uraian Komponen Utama                              |
|----|--------------------------------------|----------------------------------------------------|
| 1  | Digital Infantometer                 | Catu Daya / Baterai                                |
|    |                                      | Layar Panel (LCD / Digital Display)                |
|    |                                      | Modul Kontrol (Controller PCB Module)              |
|    |                                      | Papan Pengukur (Length Bed / Board)                |
|    |                                      | Perangkat Konektivitas                             |
|    |                                      | Sensor Posisi                                      |
|    |                                      | Slider Digital & Pembatas Kepala (Head Stopper)    |
| 2  | Digital Stadiometer                  | Tombol (Switch)                                    |
|    |                                      | Catu Daya / Baterai                                |
|    |                                      | Layar Panel (LCD Panel/Digital Display)            |
|    |                                      | Modul Kontrol (Controller PCB Module)              |
|    |                                      | Pembatas Kepala (Head Slider / Stopper)            |
|    |                                      | Pengunci Dinding (Wall Stopper)                    |
|    |                                      | Perangkat Konektivitas                             |
|    |                                      | Pijakan / Alas (Stadiometer Base)                  |
|    |                                      | Sensor Posisi                                      |
| 3  | Infantometer dengan Pengukur Digital | Tiang / Batang Pengukur                            |
|    |                                      | Tombol (Switch)                                    |
|    |                                      | Komponen Pengukur Digital                          |
|    |                                      | Papan Dasar (Base Board)                           |
|    |                                      | Papan Geser Kaki (Foot Slider / Footpiece)         |
|    |                                      | Papan Kepala Tetap (Head Topper / Fixed Headpiece) |

**5. 26514 – Industri Alat Uji Dalam Proses Industri**

| No | Jenis Barang                                                                | Uraian Komponen Utama |
|----|-----------------------------------------------------------------------------|-----------------------|
| 1  | Access Fitting System with Protective Cover for Corrosion Monitoring System | Access Fitting Body   |
|    |                                                                             | O-Ring                |
|    |                                                                             | Protective Cover      |

|   |                                                      |                                |
|---|------------------------------------------------------|--------------------------------|
| 2 | Bimetal Thermometer                                  | Bimetal                        |
|   |                                                      | Casing dan Cover               |
|   |                                                      | Dial Plate                     |
|   |                                                      | Fastener                       |
|   |                                                      | Glass                          |
|   |                                                      | Liquid (Glycerine / Silicone)  |
|   |                                                      | Pointer                        |
|   |                                                      | Seal Window                    |
|   |                                                      | Tubing / Pipa Sensor           |
| 3 | Corrosion Coupon                                     | Nylon Insulator                |
|   |                                                      | Strip Coupon                   |
| 4 | Corrosion Coupon Holder                              | Mounting Hardware              |
|   |                                                      | Strip Coupon Holder            |
| 5 | Corrosion Data Logger                                | Battery                        |
|   |                                                      | Display LCD                    |
|   |                                                      | Enclosure                      |
|   |                                                      | End Connector Assy             |
|   |                                                      | End Coupling                   |
|   |                                                      | Modul PCB                      |
|   |                                                      | Mounting PCB                   |
|   |                                                      | Nipple Plug                    |
|   |                                                      | Probe Cable Assy               |
| 6 | Corrosion Monitoring Instrument (Tipe Handheld Unit) | Battery                        |
|   |                                                      | Enclosure                      |
|   |                                                      | Keypad Sticker                 |
|   |                                                      | LCD Display                    |
|   |                                                      | Modul PCB                      |
| 7 | Corrosion Transmitter                                | Cable Gland                    |
|   |                                                      | Display LCD                    |
|   |                                                      | Enclosure                      |
|   |                                                      | End Coupling                   |
|   |                                                      | Modul PCB                      |
|   |                                                      | Mounting PCB                   |
|   |                                                      | Nipple Plug                    |
|   |                                                      | PCB Transmitter                |
|   |                                                      | Probe Cable                    |
| 8 | Differential Pressure Gauge                          | Casing                         |
|   |                                                      | Dial Plate                     |
|   |                                                      | Diaphragm / Below              |
|   |                                                      | Fastener                       |
|   |                                                      | Glass                          |
|   |                                                      | Liquid (Glyccerine / Silicone) |

|    |                                                                    |                                 |
|----|--------------------------------------------------------------------|---------------------------------|
|    |                                                                    | Seal                            |
| 9  | Electrical Resistance Probe / ER Probe                             | End Connector                   |
|    |                                                                    | Loop Element Housing            |
|    |                                                                    | Probe Body                      |
|    |                                                                    | Probe Element                   |
|    |                                                                    | Probe Insert Packing            |
|    |                                                                    | Short Housing for Probe Body    |
|    |                                                                    | Velocity Shield                 |
|    |                                                                    | Wire                            |
| 10 | Gas Chromatograph Sampling System                                  | Gas Chromatograph               |
|    |                                                                    | Hex Socket with Nut             |
|    |                                                                    | Mounting GC                     |
|    |                                                                    | Sampling Conditioning System    |
|    |                                                                    | U Bolt with Nut                 |
| 11 | Injection / Sampling Head or Quill for Corrosion Monitoring System | Injection Nut                   |
|    |                                                                    | Injection Sampling Head / Quill |
|    |                                                                    | O-Ring                          |
| 12 | Linear Polarization Resistance Probe (LPR Probe)                   | Body                            |
|    |                                                                    | Cable                           |
|    |                                                                    | Connector Housing LPR Probe     |
|    |                                                                    | Elektroda                       |
|    |                                                                    | End Connector                   |
|    |                                                                    | Housing End Connector           |
|    |                                                                    | Housing LPR Probe               |
|    |                                                                    | O Ring                          |
|    |                                                                    | Probe Insert Packing            |
| 13 | Mechanical Sand Probe                                              | Element Sand Probe              |
|    |                                                                    | Sand Probe Holder               |
| 14 | Multivariable Transmitter                                          | Adapter Display                 |
|    |                                                                    | Battery                         |
|    |                                                                    | Bracket Assembly                |
|    |                                                                    | Cable Gland                     |
|    |                                                                    | Display LCD                     |
|    |                                                                    | Enclosure                       |
|    |                                                                    | Microcomputer                   |
|    |                                                                    | Modul PCB                       |
|    |                                                                    | Sensor                          |
|    |                                                                    | Sticker LCD                     |
|    |                                                                    | Tag Label                       |
| 15 | Orifice Plate with Flange (for Flow Measurement)                   | Orifice Flange                  |
|    |                                                                    | Orifice Plates with Handle      |
|    |                                                                    | Plug                            |
| 16 | Pressure Gauge                                                     | Bourdon / Heli Coil             |
|    |                                                                    | Casing                          |

|    |                                                |                                |
|----|------------------------------------------------|--------------------------------|
|    |                                                | Dial Plate                     |
|    |                                                | Fastener                       |
|    |                                                | Liquid (Glyccerine / Silicone) |
|    |                                                | Seal                           |
| 17 | Retractor for Corrosion Monitoring System      | Draw Plate                     |
|    |                                                | Gear Box                       |
|    |                                                | Handle                         |
|    |                                                | Moveable Draw Plate            |
|    |                                                | Rod Liner                      |
|    |                                                | Thread Rod                     |
| 18 | Retriever for Corrosion Monitoring System      | Back Tube                      |
|    |                                                | Barrel                         |
|    |                                                | Hammer Union                   |
|    |                                                | Handle                         |
|    |                                                | Handwheel Body                 |
|    |                                                | Pressure Gauge                 |
|    |                                                | Shut Off Valve                 |
|    |                                                | Spline Rack                    |
| 19 | Resistance Temperature Detector (RTD22) Sensor | Body Cup Resistor              |
|    |                                                | Body RTD Resistor              |
|    |                                                | Cable Gland                    |
|    |                                                | Enclosure                      |
|    |                                                | End Cup Resistor               |
|    |                                                | Ring Body                      |
|    |                                                | RTD Cable                      |
|    |                                                | Sensor                         |
|    |                                                | Sheat Body                     |
|    |                                                | Spring                         |
|    |                                                | Tag Plate                      |
| 20 | Service Valve for Corrosion Monitoring System  | Ball Valve                     |
|    |                                                | Bleed Valve Assy               |
|    |                                                | Extension Handle               |
|    |                                                | Oring                          |
|    |                                                | Plug                           |
|    |                                                | Seat                           |
|    |                                                | Service Valve Body             |
|    |                                                | Stem                           |
| 21 | Sistem Kontrol Panel / Panel Control System    | Union Adapter                  |
|    |                                                | Casing/Panel                   |
|    |                                                | Electronic Module              |
|    |                                                | Fastener                       |
|    |                                                | Kabel                          |
|    |                                                | Komponen Kelistrikan           |
|    |                                                | Power Board / Power Supply     |

|    |                                                                                          |                                         |
|----|------------------------------------------------------------------------------------------|-----------------------------------------|
| 22 | Solid / Hollow Plug for Corrosion Monitoring System                                      | Body                                    |
|    |                                                                                          | Hollow / Solid Nut                      |
|    |                                                                                          | Plug                                    |
| 23 | Sulphate Reducing Bacteria Probe / Bio Probe                                             | Body                                    |
|    |                                                                                          | Stud                                    |
|    |                                                                                          | Stud Holder                             |
| 24 | Thermocouple                                                                             | Cable Gland                             |
|    |                                                                                          | Cover / Kepala                          |
|    |                                                                                          | Fastener                                |
|    |                                                                                          | Seal                                    |
|    |                                                                                          | Sensor                                  |
|    |                                                                                          | Spring                                  |
|    |                                                                                          | Terminal                                |
|    |                                                                                          | Thermowell                              |
| 25 | Thermowell / Aksesoris untuk Bimetal Thermometer dan Thermocouple                        | Tubing / Sheath                         |
|    |                                                                                          | Gasket                                  |
|    |                                                                                          | Thermowell Body (Maximum Semi Finished) |
| 26 | Transmitter Tipe Pressure / Temperature / Differential Pressure / Level / Flow / Akustik | Adapter                                 |
|    |                                                                                          | Cable Gland                             |
|    |                                                                                          | Casing/Housing                          |
|    |                                                                                          | Cover Base                              |
|    |                                                                                          | Display                                 |
|    |                                                                                          | Electronic Board                        |
|    |                                                                                          | Mounting Bracket                        |
|    |                                                                                          | Sensor                                  |
|    |                                                                                          | Stopping Plug                           |
| 27 | Ultrasonic Transmitter for Corrosion Monitoring System                                   | Tag Label                               |
|    |                                                                                          | Battery                                 |
|    |                                                                                          | Display LCD                             |
|    |                                                                                          | Enclosure                               |
|    |                                                                                          | Enclosure Transducer                    |
|    |                                                                                          | End Connector Assy                      |
|    |                                                                                          | End Coupling                            |
|    |                                                                                          | Modul PCB                               |
|    |                                                                                          | Mounting Bracket                        |
|    |                                                                                          | Nipple Plug                             |
|    |                                                                                          | Tag Label                               |
|    |                                                                                          | Transducer                              |
| 28 | Wellhead Control Panel                                                                   | Transducer Bracket                      |
|    |                                                                                          | Ball Valve                              |
|    |                                                                                          | Check Valve                             |
|    |                                                                                          | Electric Motor for Pump                 |
|    |                                                                                          | Fitting                                 |

|  |  |                 |
|--|--|-----------------|
|  |  | Panel Enclosure |
|  |  | Pressure Gauge  |
|  |  | Three Way Valve |

**6. 26601 – Industri Peralatan Iradiasi/Sinar X, Perlengkapan dan Sejenisnya**

| No | Jenis Barang          | Uraian Komponen Utama                                                      |
|----|-----------------------|----------------------------------------------------------------------------|
| 1  | CT Scanner            | Frame / Gantry                                                             |
|    |                       | X Ray Tube                                                                 |
|    |                       | Generator                                                                  |
|    |                       | Detector                                                                   |
|    |                       | Plastic Part / Casing                                                      |
|    |                       | Monitors                                                                   |
|    |                       | Collimator                                                                 |
|    |                       | PC / Operator's Console                                                    |
|    |                       | Power Distribution Unit (PDU)                                              |
|    |                       | Patient Table                                                              |
|    |                       | Dollies                                                                    |
|    |                       | Wiring                                                                     |
|    |                       | Fan Rotation                                                               |
| 2  | X-Ray Machine         | X-Ray Tube                                                                 |
|    |                       | Frame                                                                      |
|    |                       | Plastic Part / Casing                                                      |
|    |                       | PCB Board                                                                  |
|    |                       | Trolley / Wheels                                                           |
|    |                       | Wiring                                                                     |
| 3  | Mobile X-Ray System   | Accessories (Tripod Detector, Tripod X-Ray Unit, Holder Detector, Charger) |
|    |                       | Baterai (Rechargeable)                                                     |
|    |                       | Controller                                                                 |
|    |                       | Enclosure                                                                  |
|    |                       | Image Processing System                                                    |
|    |                       | Power Supply System                                                        |
|    |                       | Protection System                                                          |
|    |                       | Transport Box                                                              |
|    |                       | Trolley                                                                    |
|    |                       | X-Ray Generator Unit                                                       |
| 4  | Portable X-Ray System | Accessories (Tripod Detector, Tripod X-Ray Unit, Holder Detector, Charger) |
|    |                       | Baterai (Rechargeable)                                                     |
|    |                       | Controller                                                                 |
|    |                       | Enclosure                                                                  |
|    |                       | Image Processing System                                                    |

|  |  |                      |
|--|--|----------------------|
|  |  | Power Supply System  |
|  |  | Protection System    |
|  |  | Transport Box        |
|  |  | X-Ray Generator Unit |

**7. 26602 – Industri Peralatan Elektromedikal dan Elektroterapi**

| No | Jenis Barang            | Uraian Komponen Utama                               |
|----|-------------------------|-----------------------------------------------------|
| 1  | Elektrokardiograf (EKG) | Electrodes                                          |
|    |                         | Leads                                               |
|    |                         | Signal Processor / PCB                              |
|    |                         | Display / Layar                                     |
|    |                         | Casing                                              |
|    |                         | Controller                                          |
|    |                         | Kabel                                               |
|    |                         | Power Supply                                        |
|    |                         | Frame                                               |
| 2  | Patient Monitor         | Sensor (ECG, SpO <sub>2</sub> , NIBP, atau lainnya) |
|    |                         | Motherboard                                         |
|    |                         | Microcontroller Unit (MCU)                          |
|    |                         | Display / Layar                                     |
|    |                         | Power Supply                                        |
|    |                         | Casing                                              |
|    |                         | Konektor                                            |
|    |                         | Speaker / Alarm                                     |
| 3  | Syringe Pump            | Baterai                                             |
|    |                         | Motor Presisi                                       |
|    |                         | Lead Screw                                          |
|    |                         | Sensor Aliran                                       |
|    |                         | Sensor Tekanan Pompa                                |
|    |                         | Motherboard                                         |
|    |                         | Microcontroller Unit (MCU)                          |
|    |                         | Display dan Input (Reinforced)                      |
|    |                         | Power Supply                                        |
|    |                         | Housing & Struktur Mekanik (Reinforced)             |
|    |                         | Kabel dan Konektor (Reinforced)                     |
|    |                         | Baterai (Sumber Daya Cadangan)                      |
| 4  | Infusion Pump           | Mekanisme Pompa Peristaltik                         |
|    |                         | Sensor Occlusion                                    |
|    |                         | Sensor Bubble                                       |
|    |                         | Motherboard                                         |
|    |                         | Microcontroller Unit (MCU)                          |
|    |                         | Display                                             |
|    |                         | Keypad                                              |

|   |                                  |                                 |
|---|----------------------------------|---------------------------------|
|   |                                  | Power Supply                    |
|   |                                  | Casing                          |
|   |                                  | Konektor                        |
|   |                                  | Kabel                           |
|   |                                  | Frame                           |
|   |                                  | Pole Clamp / Bracket            |
| 5 | Blood Refrigerator / Blood Bank  | Kompresor                       |
|   |                                  | Kondensor                       |
|   |                                  | Evaporator                      |
|   |                                  | Body and Inner Casing           |
|   |                                  | Controller Suhu / Display Panel |
|   |                                  | Power Supply / SMPS             |
|   |                                  | Polyurethane Foam (PUF)         |
|   |                                  | Roda (Caster)                   |
|   |                                  | Sealant / Gasket                |
|   |                                  | Kaca                            |
|   |                                  | Rak dalam                       |
| 6 | Hot Steam Sterilizer / Autoclave | Heater                          |
|   |                                  | Body                            |
|   |                                  | Controller Suhu                 |
|   |                                  | Controller Tekanan              |
|   |                                  | Power Supply                    |
|   |                                  | Pipa                            |
|   |                                  | Inner Casing                    |
|   |                                  | Katup Uap                       |
| 7 | Blood Pressure Monitor Portable  | Pressure Pump                   |
|   |                                  | Valve                           |
|   |                                  | Air Hose                        |
|   |                                  | Controller                      |
|   |                                  | Baterai                         |
|   |                                  | Cuff                            |
|   |                                  | Body and Structure              |
|   |                                  | Oscillation Sensor              |
| 8 | Blood Pressure Monitor Station   | Pressure Pump                   |
|   |                                  | Valve                           |
|   |                                  | Air Hose                        |
|   |                                  | Controller                      |
|   |                                  | Power Supply                    |
|   |                                  | Cuff                            |
|   |                                  | Body and Structure              |
|   |                                  | Oscillation Sensor              |
| 9 | Oximeter                         | Optical Sensor                  |
|   |                                  | Controller                      |
|   |                                  | Baterai                         |

|    |                                           |                                                                    |
|----|-------------------------------------------|--------------------------------------------------------------------|
|    |                                           | Body and Structure                                                 |
| 10 | Suction Pump                              | Vacuum Pump                                                        |
|    |                                           | Power Supply                                                       |
|    |                                           | Controller (Gauge / Electrical)                                    |
|    |                                           | Botol Penampung                                                    |
|    |                                           | Baterai Cadangan                                                   |
|    |                                           | Body and Structure                                                 |
| 11 | Cardiotocography                          | Electrodes                                                         |
|    |                                           | Leads                                                              |
|    |                                           | Signal Processor / PCB                                             |
|    |                                           | Display / Layar                                                    |
|    |                                           | Casing                                                             |
|    |                                           | Antarmuka Pengguna                                                 |
|    |                                           | Kontrol (Tombol / Knob)                                            |
|    |                                           | Power Supply                                                       |
|    |                                           | Kabel                                                              |
| 12 | Operating Lamp Ceiling                    | LED Assy (antara lain: Lampu LED, Lensa, LED Board)                |
|    |                                           | Plastic Part / Casing                                              |
|    |                                           | Rangka                                                             |
|    |                                           | Electronic Parts (antara lain: Power Board, Control Board, Kamera) |
|    |                                           | Bracket                                                            |
|    |                                           | Controller                                                         |
| 13 | Operating Lamp Portable                   | LED Assy (antara lain: Lampu LED, lensa, LED Board)                |
|    |                                           | Plastic Part / Casing                                              |
|    |                                           | Rangka                                                             |
|    |                                           | Electronic Parts (antara lain: Power Board, Control Board, Kamera) |
|    |                                           | Roda / Caster                                                      |
|    |                                           | Controller                                                         |
| 14 | Pendant Series (Operating Theatre Series) | Penutup Arm Atas                                                   |
|    |                                           | Meja Kabinet                                                       |
|    |                                           | Electrical Socket                                                  |
|    |                                           | Konektor Gas                                                       |
|    |                                           | Rak Handle                                                         |
|    |                                           | Selang Gas                                                         |
|    |                                           | Konektor                                                           |
|    |                                           | Kabel                                                              |
|    |                                           | Roller / Bearing                                                   |
|    |                                           | Arm                                                                |
|    |                                           | Stik Infus                                                         |
|    |                                           | Bracket / Base Plate                                               |

|    |                            |                                           |
|----|----------------------------|-------------------------------------------|
|    |                            | Cover Beam / Column                       |
|    |                            | Safety Component                          |
| 15 | Infant Warmer              | Elemen Pemanas                            |
|    |                            | Sensor Suhu                               |
|    |                            | Sistem Kontrol                            |
|    |                            | Tempat Tidur / Platform                   |
|    |                            | Display                                   |
|    |                            | Antarmuka                                 |
|    |                            | Power Supply                              |
|    |                            | Safety Component                          |
|    |                            | Rangka                                    |
|    |                            | Penutup                                   |
|    |                            | Roda / Caster                             |
| 16 | Infant / Baby Incubator    | Ruang Transparan (Akrilik / Polikarbonat) |
|    |                            | Sistem Pemanas                            |
|    |                            | Humidifikasi                              |
|    |                            | Kipas                                     |
|    |                            | Filter Sirkulasi Udara                    |
|    |                            | Sensor (Suhu, Humiditas, O <sub>2</sub> ) |
|    |                            | Sistem Kontrol                            |
|    |                            | Layar                                     |
|    |                            | Kasur                                     |
|    |                            | Fittings                                  |
|    |                            | Rangka                                    |
|    |                            | Power Supply                              |
|    |                            | Casing                                    |
|    |                            | Caster                                    |
| 17 | Ultrasonografi / USG       | Motherboard                               |
|    |                            | Microcontroller Unit (MCU)                |
|    |                            | Display / Layar                           |
|    |                            | Power Supply                              |
|    |                            | Casing                                    |
|    |                            | Konektor                                  |
|    |                            | Speaker / Alarm                           |
|    |                            | Frame                                     |
|    |                            | Sensor (Probe)                            |
|    |                            | Articulating Arm                          |
|    |                            | Keyboard / Control Panel                  |
|    |                            | Plastic Part /Casing                      |
|    |                            | Trolley                                   |
|    |                            | Wheels / Caster                           |
|    |                            | Holdes /Gel Warmer                        |
| 18 | Kamera Pemeriksaan Serviks | Casing                                    |

|    |                            |                                                   |
|----|----------------------------|---------------------------------------------------|
|    |                            | Sensor Kamera                                     |
|    |                            | Motherboard                                       |
| 19 | Dry Heat Sterilizer / Oven | Casing                                            |
|    |                            | Elemen Pemanas (Heater / Heating Element)         |
|    |                            | Isolasi Panas (Thermal Insulation)                |
|    |                            | Pintu Kabinet                                     |
|    |                            | Power Supply Component                            |
|    |                            | Rak / Tray                                        |
|    |                            | Ruang Sterilisasi                                 |
|    |                            | Sensor Suhu                                       |
|    |                            | Sistem Kontrol                                    |
|    |                            | Sistem Pengaman                                   |
|    |                            | Sistem Sirkulasi udara                            |
|    |                            | Temperature Controller                            |
|    |                            | Timer Sterilisasi                                 |
| 20 | Electrosurgical Unit       | Elektroda Aktif (Active Electrode)                |
|    |                            | Elektroda Netral (Return / Neutral Electrode)     |
|    |                            | Generator Frekuensi Tinggi (HF Generator)         |
|    |                            | Konektor (Connector)                              |
|    |                            | Kontrol Antarmuka (Interface Controller)          |
|    |                            | Modul Kontrol Utama (Main Controller Board)       |
|    |                            | Panel Kontrol                                     |
|    |                            | Rangka (Main Frame)                               |
|    |                            | Rumah (Casing)                                    |
|    |                            | Sakelar Kaki (Foot Switch)                        |
| 21 | Fetal Doppler              | Adaptor / Charger Daya / Catu Daya / Power Supply |
|    |                            | Baterai (Rechargeable)                            |
|    |                            | Casing                                            |
|    |                            | Layar Display                                     |
|    |                            | Panel Kontrol                                     |
|    |                            | Probe                                             |
|    |                            | Speaker                                           |
| 22 | Fetal Monitor              | Adaptor / Charger Daya / Catu Daya / Power Supply |
|    |                            | Alarm / Sistem Pengaman                           |
|    |                            | Baterai                                           |
|    |                            | Casing                                            |
|    |                            | Connector                                         |

|    |                             |                                                                              |
|----|-----------------------------|------------------------------------------------------------------------------|
|    |                             | Layar / Display Monitor                                                      |
|    |                             | Mother Board / Processor                                                     |
|    |                             | Panel Kontrol                                                                |
|    |                             | Perangkat Input                                                              |
|    |                             | Printer                                                                      |
|    |                             | Transduser                                                                   |
| 23 | Mobile Suction Pump Digital | Baterai Cadangan                                                             |
|    |                             | Caster Wheel / Roda Penggerak                                                |
|    |                             | Catu Daya dan Tombol Power                                                   |
|    |                             | Filter Udara                                                                 |
|    |                             | Manometer / Display                                                          |
|    |                             | Motor Pompa (Pompa Vakum)                                                    |
|    |                             | Pengatur Tekanan (Regulator) / Ball Valve                                    |
|    |                             | Rangka (Frame)                                                               |
|    |                             | Selang / Kateter Suction (Tube)                                              |
|    |                             | Struktur Rangka / Casing                                                     |
|    |                             | Tabung Penampung Cairan (Canister / Jar)                                     |
|    |                             | Unit Kontrol Utama (Main Controller Unit)                                    |
| 24 | Needle Crusher              | Batu Gerinda atau Mata Pisau (Cutter / Grinder)                              |
|    |                             | Hopper (jika ada/ terpisah dari Casing)                                      |
|    |                             | Motor Penggerak (Driver Motor)                                               |
|    |                             | Panel Kontrol (Control Panel) (jika ada)                                     |
|    |                             | Rangka / Casing dengan Lubang Masukan (Syringe Inlet)                        |
|    |                             | Saklar Injak (Foot Switch)                                                   |
|    |                             | Wadah / Laci Penampung Limbah (Container) (jika ada/ terpisah dengan casing) |
| 25 | Oxygen Generator            | Absortion Tower Set                                                          |
|    |                             | Air Supply Purifying System                                                  |
|    |                             | Air Tank                                                                     |
|    |                             | Casing                                                                       |
|    |                             | Compressor                                                                   |
|    |                             | Dew Point Sensor                                                             |
|    |                             | Gas Filter                                                                   |
|    |                             | Oxygen Analyzer                                                              |
|    |                             | Oxygen Container/ tank                                                       |
|    |                             | Oxygen Generator                                                             |

|    |                           |                                                          |
|----|---------------------------|----------------------------------------------------------|
|    |                           | Oxygen Transmitter                                       |
|    |                           | Panel Listrik                                            |
|    |                           | Pipa Instalasi Sistem Internal                           |
|    |                           | Pneumatic Valve Set                                      |
|    |                           | Sistem Kontrol Saluran Pipa Udara/<br>Speed Regulator    |
|    |                           | Sistem Kontrol / PLC                                     |
| 26 | Oxygen Generator System   | Kompresor Udara (Air Compressor)                         |
|    |                           | Pengaman & Pengukur Tekanan<br>(Safety & Pressure Gauge) |
|    |                           | Pengukur Oksigen (Oxygen Analyzer)                       |
|    |                           | Penyaring dan Pengering (Air Pre-<br>Treatment System)   |
|    |                           | Pipa & Penghubung (Piping &<br>Connector / Adaptor)      |
|    |                           | Sistem Kendali (Control System /<br>PLC)                 |
|    |                           | Tangki Adsorpsi / Kolom Zeolit<br>(Adsorption Towers)    |
|    |                           | Tangki Penampung Oksigen (Oxygen<br>Buffer Tank)         |
| 27 | Passbox                   | Catu Daya (Power Supply)                                 |
|    |                           | Kaca Transparan                                          |
|    |                           | Kunci Interlok (Magnetic Electric<br>Inter-Lock)         |
|    |                           | Panel Kontrol (Control Panel)                            |
|    |                           | Plat Kotak Pass Box (SS)                                 |
| 28 | Penghancur Jarum Suntik   | Casing / Rangka                                          |
|    |                           | Catu Daya / Power Supply                                 |
|    |                           | Emergency Stop Button/ Perangkat<br>Pengaman             |
|    |                           | Motor Penggerak                                          |
|    |                           | Panel Kontrol                                            |
|    |                           | Pisau Penghancur (Shredder Knives)                       |
|    |                           | Roda / Caster                                            |
|    |                           | Ruang Pemasukan (Inlet / Hopper)                         |
| 29 | Portable Oxygen Generator | Absorption Tower Set                                     |
|    |                           | Air Tank                                                 |
|    |                           | Casing                                                   |
|    |                           | Compressor                                               |
|    |                           | Oxygen Analyzer                                          |
|    |                           | Pneumatic Valve Set                                      |
|    |                           | Roda                                                     |
|    |                           | System Control / PLC                                     |

|    |                                                           |                                                            |
|----|-----------------------------------------------------------|------------------------------------------------------------|
| 30 | Portable Suction Pump Digital                             | Baterai Cadangan                                           |
|    |                                                           | Catu Daya dan Tombol Power                                 |
|    |                                                           | Filter Udara                                               |
|    |                                                           | Manometer / Display                                        |
|    |                                                           | Motor Pompa (Pompa Vakum)                                  |
|    |                                                           | Pengatur Tekanan (Regulator) / Ball Valve                  |
|    |                                                           | Selang / Kateter Suction (Tube)                            |
|    |                                                           | Struktur Rangka/ Casing                                    |
|    |                                                           | Tabung Penampung Cairan (Canister / Jar)                   |
|    |                                                           | Unit Kontrol Utama (Main Controller Unit)                  |
| 31 | Surgical Smoke Evacuator/<br>Filter Exhaust ESU Generator | Layar                                                      |
|    |                                                           | Motor Vakum / Penghisap                                    |
|    |                                                           | Panel Kontrol                                              |
|    |                                                           | Rangka (Frame)                                             |
|    |                                                           | Selang Vakum dan Tongkat (Wand)                            |
|    |                                                           | Sensor Asap                                                |
|    |                                                           | Sistem Filtrasi (Filter HEPA / ULPA / Filter Karbon Aktif) |
| 32 | Thermal Regulating System/<br>Blanket Warmer              | Unit Kontrol Utama (Main Controller Board)                 |
|    |                                                           | Air Outlet Element                                         |
|    |                                                           | Bracket Speaker                                            |
|    |                                                           | Bracket Trolley                                            |
|    |                                                           | Cover Air Outlet                                           |
|    |                                                           | Cover Pelindung Filter                                     |
|    |                                                           | Fan                                                        |
|    |                                                           | Filter Udara                                               |
|    |                                                           | Housing                                                    |
|    |                                                           | Kabel Daya                                                 |
|    |                                                           | Kerangka                                                   |
|    |                                                           | Komponen Pemanas                                           |
|    |                                                           | Mother Board / Processor                                   |
|    |                                                           | Selang Udara                                               |
|    |                                                           | Sistem Kontrol                                             |
| 33 | Transport Ventilator / Portable Ventilator                | Sistem Pengaman                                            |
|    |                                                           | Speaker                                                    |
|    |                                                           | Trolley                                                    |
|    |                                                           | Catu Daya (Power Supply)                                   |
|    |                                                           | Catu Daya Cadangan                                         |
|    |                                                           | Katup Ekspirasi (Exhalation Valve / PEEP Valve)            |

|    |                                      |                                                            |
|----|--------------------------------------|------------------------------------------------------------|
|    |                                      | Konektor /Input Oksigen (Oxygen Port)                      |
|    |                                      | Sensor Aliran / Tekanan Udara (Gas Flow / Pressure Sensor) |
|    |                                      | Sirkuit Pernapasan (Breathing Circuit & Cap)               |
|    |                                      | Sistem Alarm (Over Pressure Alarm & Venting)               |
|    |                                      | Sistem Penggerak Udara (Air Generator)                     |
|    |                                      | Unit Pengontrol Utama (Main Unit Controller)               |
| 34 | Video Laryngoscope / Portable handle | Baterai Isi Ulang (Rechargable battery)                    |
|    |                                      | Bilah (Reusable / Disposable Blade)                        |
|    |                                      | Gagang / Casing (Portable Handle / Casing)                 |
|    |                                      | Kamera / Sensor Gambar                                     |
|    |                                      | Layar                                                      |
|    |                                      | Memori Penyimpanan Data (jika ada)                         |
|    |                                      | Modul Kontrol Utama (Main Control Board)                   |
|    |                                      | Sumber Cahaya (Light Source)                               |
|    |                                      | Tombol Kontrol                                             |

**8. 27111 – Industri Motor Listrik**

| No | Jenis Barang               | Uraian Komponen Utama    |
|----|----------------------------|--------------------------|
| 1  | Medium Voltage Switchboard | Buss Fuse                |
|    |                            | Current Transformer      |
|    |                            | Enclosure                |
|    |                            | Lightning Arrester       |
|    |                            | Load Breaker Switch      |
|    |                            | Potential Transformer    |
|    |                            | Relay Control Protection |
|    |                            | Vacuum Contactor         |
| 2  | Motor Listrik Submersible  | Base                     |
|    |                            | Bearing                  |
|    |                            | Head Motor               |
|    |                            | Housing                  |
|    |                            | Lamination               |
|    |                            | Oli Pendingin            |
|    |                            | Rotor                    |
|    |                            | Seal                     |
| 3  | Stator                     | Shaft                    |
|    |                            | Enamel Wire              |
|    |                            | Housing                  |

|   |                      |             |
|---|----------------------|-------------|
|   |                      | Stator Core |
| 4 | Terminal             | As Tembaga  |
| 5 | Variable Speed Drive | Breaker     |
|   |                      | Busbar      |
|   |                      | Enclosure   |
|   |                      | Fan         |
|   |                      | Filter      |
|   |                      | Inverter    |
|   |                      | Isolator    |

**9. 27112 – Industri Mesin Pembangkit Listrik**

| No | Jenis Barang           | Uraian Komponen Utama         |
|----|------------------------|-------------------------------|
| 1  | Genset / Generator Set | Engine (Diesel / Gas)         |
|    |                        | Alternator (Stator + Rotor)   |
|    |                        | Radiator dan Sistem Pendingin |
|    |                        | Panel kontrol dan Governor    |
|    |                        | Enclosure / Silent Box        |

**10. 27113 – Industri Pengubah Tegangan (Transformator), Pengubah Arus (Rectifier) dan Pengontrol Tegangan (Voltage Stabilizer)**

| No | Jenis Barang                                                                          | Uraian Komponen Utama                              |
|----|---------------------------------------------------------------------------------------|----------------------------------------------------|
| 1  | Transformator (Trafo) Distribusi                                                      | Core / Inti Besi (Silicon Steel / Amorphous Steel) |
|    |                                                                                       | Winding                                            |
|    |                                                                                       | Struktur Isolasi                                   |
|    |                                                                                       | Media Pendingin (Coolant)                          |
|    |                                                                                       | Tangki Transformator                               |
|    |                                                                                       | Bushing                                            |
|    |                                                                                       | Peralatan Proteksi                                 |
| 2  | Transformator (Trafo) Tenaga                                                          | Core / Inti Besi (Silicon Steel / Amorphous Steel) |
|    |                                                                                       | Winding                                            |
|    |                                                                                       | Struktur Isolasi                                   |
|    |                                                                                       | Media Pendingin (Coolant)                          |
|    |                                                                                       | Tangki Transformator                               |
|    |                                                                                       | Bushing                                            |
|    |                                                                                       | Peralatan Proteksi                                 |
| 3  | Transformator (Trafo) Instrumen Current Transformer (CT) / Potential Transformer (PT) | Core / Inti Besi (Silicon Steel / Amorphous Steel) |
|    |                                                                                       | Winding                                            |
|    |                                                                                       | Struktur Isolasi                                   |
|    |                                                                                       | Media Pendingin (Coolant)                          |
|    |                                                                                       | Tangki Transformator / Resin                       |
|    |                                                                                       | Bushing / Terminal                                 |
|    |                                                                                       | Peralatan Proteksi                                 |
| 4  | Air Coil                                                                              | Kawat Tembaga                                      |
| 5  | Bushing Tegangan Tinggi                                                               | Casing Storage / Protection Tank                   |
|    |                                                                                       | Elektroda / Perisai                                |
|    |                                                                                       | Flange / Dudukan                                   |
|    |                                                                                       | Insulation (Resin Impregnated Paper)               |

|   |                                          |                                  |
|---|------------------------------------------|----------------------------------|
|   |                                          | Insulator (Porselen / Polymer)   |
|   |                                          | Konduktor                        |
|   |                                          | Terminal                         |
| 6 | Kapasitor Tegangan Rendah (LV Capacitor) | Isolasi (Insulation)             |
|   |                                          | Kabel                            |
|   |                                          | Koil                             |
|   |                                          | Kotak (Body) dan Penutup (Cover) |
|   |                                          | Penghubung Listrik (Connector)   |
|   |                                          | Proteksi                         |
|   |                                          | Resistor                         |
|   |                                          | Sepatu Kabel (Cable Lug)         |
|   |                                          | Terminal                         |
|   |                                          |                                  |
| 7 | Reaktor Induktif (Detuned Reactor)       | Bahan Isolasi                    |
|   |                                          | Kumparan (Winding)               |
|   |                                          | Material Inti (Core)             |
|   |                                          | Proteksi                         |
|   |                                          | Rangka (Frame)                   |
|   |                                          | Terminal Listrik                 |
| 8 | Transformator Arus (CT)                  | Bushing / Terminal               |
|   |                                          | Core / Inti Besi (Silicon)       |
|   |                                          | Media Pendingin (Coolant)        |
|   |                                          | Peralatan Proteksi               |
|   |                                          | Steel / Amorphous Steel          |
|   |                                          | Struktur Isolasi                 |
|   |                                          | Tangki Transformator / Resin     |
|   |                                          | Winding                          |

**11. 27120 – Industri Peralatan Pengontrol dan Pendistribusian Listrik**

| No | Jenis Barang                                                                                                                 | Uraian Komponen Utama                             |
|----|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1  | kWh Meter<br>(Meter Energi Listrik)<br>(Prabayar) dan (Pascabayar)<br>(1 Fasa dan 3 Fasa)<br>2 Arah / 2 Way<br>Communication | Sensor Arus / Tegangan (CT / PT)                  |
|    |                                                                                                                              | Unit Penghitung / Pengukur Energi                 |
|    |                                                                                                                              | Display / Indikator                               |
|    |                                                                                                                              | Terminal Blok                                     |
|    |                                                                                                                              | Mikroprosesor / Chip (untuk Tipe Digital / Smart) |
|    |                                                                                                                              | Catu Daya Internal                                |
|    |                                                                                                                              | Port Komunikasi (Opsional)                        |
|    |                                                                                                                              | Casing                                            |
|    |                                                                                                                              | Relay                                             |
|    |                                                                                                                              | PCB                                               |
|    |                                                                                                                              | Keypad                                            |
|    |                                                                                                                              | Baterai                                           |
| 2  | kWh Meter<br>(Meter Energi Listrik)<br>(Prabayar) dan (Pascabayar)<br>(1 Fasa dan 3 Fasa)                                    | Sensor Arus / Tegangan (CT / PT)                  |
|    |                                                                                                                              | Unit Penghitung / Pengukur Energi                 |
|    |                                                                                                                              | Display / Indikator                               |
|    |                                                                                                                              | Terminal Blok                                     |
|    |                                                                                                                              | Mikroprosesor / Chip (untuk Tipe Digital / Smart) |

|   |                                                        |                                                        |
|---|--------------------------------------------------------|--------------------------------------------------------|
|   |                                                        | Catu Daya Internal                                     |
|   |                                                        | Port Komunikasi (Opsional)                             |
|   |                                                        | Casing                                                 |
|   |                                                        | Relay                                                  |
|   |                                                        | PCB                                                    |
| 3 | Lightning Arrester (Penangkal Petir / Surge Arrester)  | Elemen Non-Linear (ZnO Varistor / GAP)                 |
|   |                                                        | Housing / Insulator                                    |
|   |                                                        | Terminal / Konektor                                    |
|   |                                                        | Grounding Lead                                         |
|   |                                                        | Bahan Isolator                                         |
|   |                                                        | Bracket                                                |
| 4 | Load Break Switch (LBS)                                | Kontak Pemutus                                         |
|   |                                                        | Mekanisme Penggerak (Manual / Motor)                   |
|   |                                                        | Insulator Housing (Tangki)                             |
|   |                                                        | Terminal Konektor                                      |
|   |                                                        | Sistem Arc Quenching                                   |
|   |                                                        | Bushing                                                |
|   |                                                        | Control Box LBS                                        |
|   |                                                        | Gas SF6                                                |
|   |                                                        | Sensor Arus                                            |
|   |                                                        | Sensor Tegangan                                        |
|   |                                                        | Counter Mekanis                                        |
|   |                                                        | Sistem Penguncian                                      |
| 5 | Panel Listrik Tegangan Rendah (TR) (<1000 Volt)        | Incoming Breaker / Main Switch                         |
|   |                                                        | Busbar                                                 |
|   |                                                        | MCCB / MCB / NH Fuse + Fuse Rail                       |
|   |                                                        | Kontaktor / Relay                                      |
|   |                                                        | Terminal dan Kabel                                     |
|   |                                                        | Enclosure                                              |
|   |                                                        | Instrumentasi (Meter, Indicator)                       |
| 6 | Panel Listrik Tegangan Menengah (TM) (1000–35000 Volt) | Current Transformer                                    |
|   |                                                        | Incoming Breaker / Main Switch                         |
|   |                                                        | Insulation Material / Isolator                         |
|   |                                                        | Busbar                                                 |
|   |                                                        | Protection Relay                                       |
|   |                                                        | Instrumentasi (Meter, Indicator)                       |
|   |                                                        | Annunciator                                            |
|   |                                                        | Heater                                                 |
|   |                                                        | Current Transformer                                    |
|   |                                                        | Enclosure                                              |
|   |                                                        | Voltage Transformer (Untuk Tipe Fully Insulated)       |
|   |                                                        | Circuit Breaker Motorized (Untuk Tipe Fully Insulated) |
| 7 | Fuse Cut Out (Pemutus Lebur)                           | Tabung Fuse (Fuse Link)                                |

|    |                                                     |                                         |
|----|-----------------------------------------------------|-----------------------------------------|
|    |                                                     | Insulator Support (Porcelain / Polymer) |
|    |                                                     | Terminal Kontak Atas                    |
|    |                                                     | Terminal Kontak Bawah                   |
|    |                                                     | Engsel / Link Mechanism                 |
|    |                                                     | Bracket                                 |
| 8  | Isolator Tegangan Tinggi (>35000 Volt)              | Body / Insulator                        |
|    |                                                     | Insulation Core                         |
|    |                                                     | Terminal / Konektor                     |
|    |                                                     | Bracket / Struktur Penyangga            |
|    |                                                     | Line Post Bolt (Tipe Tumpu / Line Post) |
|    |                                                     | Top Metal Fitting                       |
| 9  | Isolator Tegangan Menengah (TM) (1000 - 35000 Volt) | Body/Insulator                          |
|    |                                                     | Insulation Core                         |
|    |                                                     | Terminal / Konektor                     |
|    |                                                     | Bracket / Struktur Penyangga            |
|    |                                                     | Line Post Bolt (Tipe Tumpu / Line Post) |
|    |                                                     | Top Metal Fitting                       |
| 10 | Isolator Tegangan Rendah (TR) (<1000 Volt)          | Body / Insulator                        |
|    |                                                     | Insulation Core                         |
|    |                                                     | Terminal / Konektor                     |
|    |                                                     | Bracket / Struktur Penyangga            |
|    |                                                     | Line Post Bolt (Tipe Tumpu / Line Post) |
|    |                                                     | Top Metal Fitting                       |
| 11 | MCB (Pemutus Arus)                                  | Kontak                                  |
|    |                                                     | Bimetal Strip                           |
|    |                                                     | Elektromagnet                           |
|    |                                                     | Tuas dan Mekanisme Pegas                |
|    |                                                     | Casing Isolasi                          |
|    |                                                     | Arcing Chamber                          |
| 12 | Saklar (Switch)                                     | Kontak Tetap dan Bergerak               |
|    |                                                     | Tuas / Push Button                      |
|    |                                                     | Housing / Body                          |
|    |                                                     | Terminal / Konektor                     |
| 13 | Recloser                                            | Vacuum Interrupter                      |
|    |                                                     | Controller Elektronik (Controller Box)  |
|    |                                                     | Isolator Komposit (Bushing Set)         |
|    |                                                     | Mekanisme Aktuator                      |
|    |                                                     | CT / VT Internal                        |
|    |                                                     | Enclosure / Body                        |
|    |                                                     | Tuas Mekanik                            |
|    |                                                     | Sensor Arus                             |
|    |                                                     | Sensor Tegangan                         |
|    |                                                     | Counter Mekanis                         |

|    |                                                                           |                                         |
|----|---------------------------------------------------------------------------|-----------------------------------------|
|    |                                                                           | Sistem Penguncian                       |
| 14 | Disconnecting Switch (DS)                                                 | Kontak dan Blade Cu / Al                |
|    |                                                                           | Isolator (Porcelain / Polymer)          |
|    |                                                                           | Mekanisme Operasi                       |
|    |                                                                           | Housing dan Struktur Baja               |
|    |                                                                           | Terminal Koneksi                        |
| 15 | Enclosure / Selungkup<br>Alumunium Kotak App PTL 53<br>kVA - 197 kVA      | Alumunium Plate                         |
|    |                                                                           | Perforated Steel Plate                  |
|    |                                                                           | Powder Coating                          |
|    |                                                                           | Perangkat Pengamanan (Kunci / Handle)   |
|    |                                                                           | Engsel                                  |
|    |                                                                           | Gasket                                  |
| 16 | Enclosure / Selungkup<br>Alumunium Kotak APP-PL-NB-<br>CB < 53 kVA        | Alumunium Plate                         |
|    |                                                                           | Perforated Steel Plate                  |
|    |                                                                           | Powder Coating                          |
|    |                                                                           | Perangkat Pengamanan (Kunci / Handle)   |
|    |                                                                           | Engsel                                  |
|    |                                                                           | Gasket                                  |
| 17 | Enclosure / Selungkup SPCC<br>Kotak APP-PL-NB-CB < 53<br>kVA              | SPCC Steel Plate                        |
|    |                                                                           | Perforated Steel Plate                  |
|    |                                                                           | Powder Coating                          |
|    |                                                                           | Perangkat Pengamanan (Kunci / Handle)   |
|    |                                                                           | Engsel                                  |
|    |                                                                           | Gasket                                  |
| 18 | Enclosure / Selungkup<br>Alumunium PHB-TR Pasangan<br>Luar 250 A - 1000 A | Alumunium Plate                         |
|    |                                                                           | Perforated Steel Plate                  |
|    |                                                                           | Powder Coating                          |
|    |                                                                           | Perangkat Pengamanan (Kunci / Handle)   |
|    |                                                                           | Engsel                                  |
|    |                                                                           | Gasket                                  |
| 19 | Enclosure / Selungkup SPCC<br>PHB-TR Pasangan Luar 250 A -<br>1000 A      | Plat SPCC                               |
|    |                                                                           | Perforated Steel Plate                  |
|    |                                                                           | Powder Coating                          |
|    |                                                                           | Perangkat Pengamanan (Kunci / Handle)   |
|    |                                                                           | Engsel                                  |
|    |                                                                           | Gasket                                  |
| 20 | Rangka PHB-TR Pasangan<br>Dalam >1000 A                                   | Steel Plate                             |
|    |                                                                           | Lapisan Anti Karat / Coating / Painting |
| 21 | Tangki Transformator<br>Distribusi                                        | Plat SPHC                               |
|    |                                                                           | Plat SPCC / Plat Radiator               |
|    |                                                                           | Plat Stainless Steel                    |
|    |                                                                           | UNP / Angle Bar Steel / Besi Siku       |

|    |                                                             |                                                    |
|----|-------------------------------------------------------------|----------------------------------------------------|
|    |                                                             | Lapisan Anti Karat/ Coating/ Painting              |
| 22 | Tangki Transformator Tenaga                                 | Plat SPHC                                          |
|    |                                                             | Plat SPCC / Plat Radiator                          |
|    |                                                             | Plat Stainless Steel                               |
|    |                                                             | UNP / Angle Bar Steel / Besi Siku                  |
|    |                                                             | Lapisan Anti Karat / Coating / Painting            |
| 23 | Fixing Part Transformator                                   | Plat SPHC                                          |
|    |                                                             | Plat SPCC                                          |
|    |                                                             | Plat Stainless Steel                               |
|    |                                                             | UNP / Angle Bar                                    |
|    |                                                             | Lapisan Anti Karat /Coating / Painting             |
| 24 | MCB Box                                                     | Enclosure / Box Panel                              |
|    |                                                             | Din Rail / Dudukan MCB                             |
|    |                                                             | Knockout / Lubang Masuk-Keluar Kabel               |
|    |                                                             | Penutup / Door                                     |
| 25 | RCCB (Residual Current Circuit Breaker)                     | Current Transformer (CT / Sensor Arus Diferensial) |
|    |                                                             | Kontak Pemutus Arus (Switching Contact)            |
|    |                                                             | Mekanisme Trip (Coil & Trigger)                    |
|    |                                                             | Tombol Test                                        |
|    |                                                             | Terminal Input-Output                              |
| 26 | RCBO (Residual Current Breaker with Overcurrent Protection) | Current Transformer (CT / Sensor Arus Diferensial) |
|    |                                                             | Kontak Pemutus Arus (Switching Contact)            |
|    |                                                             | Mekanisme Trip (Coil & Trigger)                    |
|    |                                                             | Tombol Test                                        |
|    |                                                             | Terminal Input-Output                              |
|    |                                                             | Kontak                                             |
|    |                                                             | Bimetal Strip                                      |
|    |                                                             | Elektromagnet                                      |
|    |                                                             | Tuas dan Mekanisme pegas                           |
|    |                                                             | Chasing Isolasi                                    |
|    |                                                             | Arching Chamber                                    |
| 27 | ACB (Air Circuit Breaker)                                   | Kontak Penggerak (Moving Contact)                  |
|    |                                                             | Kontak Tetap (Fixed Contact)                       |
|    |                                                             | Mekanisme Operasi (Operating Mechanism)            |
|    |                                                             | Kontak Utama (Main Contact)                        |
|    |                                                             | Kontak Busur (Arcing Contact)                      |
|    |                                                             | Ruang Pemadam Busur (Arc Extinguishing Chamber)    |

|    |                               |                                                            |
|----|-------------------------------|------------------------------------------------------------|
|    |                               | Unit Trip / Unit Proteksi (Trip Unit)                      |
|    |                               | Baterai Unit Kendali (Control Unit Battery)                |
|    |                               | CT (Current Transformer)                                   |
|    |                               | Kumparan Tutup / Buka (Closing / Opening Coil)             |
|    |                               | Mekanisme Pengisi Pegas (Spring Charge Mechanism)          |
|    |                               | Motor Pegas (Charging Motor)                               |
|    |                               | Kontak Bantu / Saklar Bantu (Auxiliary Contact / Switches) |
|    |                               | Tuas Pengisian (Charging Handle)                           |
|    |                               | Terminal Bantu (Auxiliary Terminal)                        |
|    |                               | Rangka Tetap / Sasis Tetap (Fix Chassis)                   |
|    |                               | Sekat Antar Fasa (Interphase Barriers)                     |
|    |                               | Koneksi Busbar (Busbar Connection)                         |
|    |                               | Penghitung Operasi (Operating Counter)                     |
|    |                               | Interlock / Pengunci (Interlock / Locking)                 |
|    |                               | Aksesoris (Accessories)                                    |
| 28 | Current Limiting Device (CLD) | Bracket                                                    |
|    |                               | Housing / Insulator (Porselen / Polymer)                   |
|    |                               | Lightning Rod                                              |
|    |                               | Live Line Connector (LLC)                                  |
|    |                               | Metal Oxide Varistor (MOV)                                 |
|    |                               | Terminal / Connector                                       |
| 29 | Fuse Link                     | Arc Quenching Tube                                         |
|    |                               | Button                                                     |
|    |                               | Cap Button                                                 |
|    |                               | Flex Wire                                                  |
|    |                               | Fuse Wire                                                  |
|    |                               | Joint Sleeve                                               |
|    |                               | Strain Wire                                                |
| 30 | High Voltage Circuit Breaker  | Anchor Bolt & Steel Structure                              |
|    |                               | Cables                                                     |
|    |                               | Connector / Terminal                                       |
|    |                               | Interrupter Pole                                           |
|    |                               | Operating Mechanism Unit                                   |
|    |                               | Support Frame & Breaker Base                               |
| 31 | Lightning Counter             | Body                                                       |
|    |                               | Counter / Totalisator                                      |

|    |                                                     |                                               |
|----|-----------------------------------------------------|-----------------------------------------------|
|    |                                                     | Dioda                                         |
|    |                                                     | Kapasitor                                     |
|    |                                                     | Kawat Enamel                                  |
|    |                                                     | PCB                                           |
|    |                                                     | Varistor                                      |
| 32 | NH Fuse                                             | Body                                          |
|    |                                                     | Indicator Plate                               |
|    |                                                     | Metal Blade                                   |
|    |                                                     | Top / End Plate / Paper                       |
| 33 | Panel Listrik Active Harmonic Filter (AHF)          | Active Harmonic Filter Unit                   |
|    |                                                     | Busbar                                        |
|    |                                                     | Current Transformer                           |
|    |                                                     | Enclosure PHBTR                               |
|    |                                                     | Fuse Rail                                     |
|    |                                                     | Instrumentasi (Metering, Indicator Lamp)      |
|    |                                                     | Kabel                                         |
|    |                                                     | Kontaktor / Relay                             |
|    |                                                     | MCB / NH Fuse                                 |
|    |                                                     | Terminal                                      |
| 34 | Relay kWh Meter                                     | Armature                                      |
|    |                                                     | Busbar                                        |
|    |                                                     | Coil                                          |
|    |                                                     | Housing Cover                                 |
|    |                                                     | Iron Core                                     |
|    |                                                     | Movable Spring                                |
|    |                                                     | Movable Spring Busbar                         |
|    |                                                     | Moving & Fixed Contact                        |
|    |                                                     | Perisai Magnetic                              |
|    |                                                     | Static Spring                                 |
| 35 | Segel Plastik Press / Putar untuk Peralatan Listrik | Biji Plastik                                  |
|    |                                                     | Kawat                                         |
| 36 | Stasiun Penyedia Listrik Umum (SPLU) Standing       | Gawai Proteksi Arus Sisa / GPAS (RCCB / RCBO) |
|    |                                                     | Kabel                                         |
|    |                                                     | kWh meter                                     |
|    |                                                     | MCB                                           |
|    |                                                     | Plug and Socket / Socket Outlet               |
|    |                                                     | Relay                                         |
|    |                                                     | Selungkup (Enclosure)                         |
|    |                                                     | Terminal Block                                |

**12. 27330 – Industri Perlengkapan Kabel**

| No | Jenis Barang        | Uraian Komponen Utama                       |
|----|---------------------|---------------------------------------------|
| 1  | Socket (Stopkontak) | Terminal Kontak Konduktif (Phase & Neutral) |
|    |                     | Housing / Body Isolator                     |
|    |                     | Terminal Kabel                              |
|    |                     | Mekanisme Penjepit Plug                     |
| 2  | Fitting Lampu       | Kontak Lampu (Terminal Kontak)              |
|    |                     | Terminal Input Kabel                        |
|    |                     | Housing Isolator Tahan Panas                |

**13. 27900 – Industri Peralatan Listrik Lainnya**

| No | Jenis Barang           | Uraian Komponen Utama            |
|----|------------------------|----------------------------------|
| 1  | Jointing & Termination | Joint Tube / Sleeve (Al / Al-Cu) |
|    |                        | Isolasi Resin / Polimer          |
|    |                        | Baut dan Aksesoris               |
|    |                        | Assembly Part                    |
|    |                        | Sepatu Kabel                     |

**14. 28111 – Industri Mesin Uap, Turbin Dan Kincir**

| No | Jenis Barang  | Uraian Komponen Utama                     |
|----|---------------|-------------------------------------------|
| 1  | Gas Turbine   | Air Inlet Section Assy                    |
|    |               | Combustion Section Assy                   |
|    |               | Compressor Rotor Section Assy             |
|    |               | Compressor Stator Section Assy            |
|    |               | Diffuser and Bearing Support Section Assy |
|    |               | Exhaust Assy                              |
|    |               | Turbine Rotor Section Assy                |
|    |               | Turbine Stator Section Assy               |
| 2  | Hydro Turbine | Bearing Assy                              |
|    |               | Casing / Diffuser                         |
|    |               | Draft Tube                                |
|    |               | Guide Vane                                |
|    |               | Head Cover                                |
|    |               | Runner                                    |
|    |               | Sealing System                            |
|    |               | Shaft Assy / Rotor Assy                   |
| 3  | Steam Turbine | Bearing Assy                              |
|    |               | Condensor                                 |
|    |               | Inner Casing                              |
|    |               | Outer Casing                              |
|    |               | Rotor Assy                                |
|    |               | Sealing System                            |
|    |               | Stationary Part Assy                      |

**15. 28112 – Industri Motor Pembakaran Dalam**

| No | Jenis Barang                                                                                                                                   | Uraian Komponen Utama          |
|----|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1  | Motor Bakar Diesel                                                                                                                             | Cylinder Block (Blok Silinder) |
|    |                                                                                                                                                | Cylinder Head                  |
|    |                                                                                                                                                | Crankshaft (Poros Engkol)      |
|    |                                                                                                                                                | Flywheel                       |
|    |                                                                                                                                                | Radiator                       |
|    |                                                                                                                                                | Hopper                         |
|    |                                                                                                                                                | Fuel Tank dan Muffler          |
|    |                                                                                                                                                | Piston dan Connecting Rod      |
|    |                                                                                                                                                | Gear Set dan Case              |
|    |                                                                                                                                                | Air Cleaner                    |
| 2  | Motor Bakar Bensin                                                                                                                             | Cylinder Block (Blok Silinder) |
|    |                                                                                                                                                | Cylinder Head                  |
|    |                                                                                                                                                | Crankshaft (Poros Engkol)      |
|    |                                                                                                                                                | Flywheel                       |
|    |                                                                                                                                                | Radiator                       |
|    |                                                                                                                                                | Hopper                         |
|    |                                                                                                                                                | Fuel Tank dan Muffler          |
|    |                                                                                                                                                | Piston dan Connecting Rod      |
|    |                                                                                                                                                | Gear Set dan Case              |
|    |                                                                                                                                                | Air Cleaner                    |
| 3  | Mesin Ketinting                                                                                                                                | Motor Penggerak                |
|    |                                                                                                                                                | Perlengkapan Ketinting         |
| 4  | Komponen Industri Motor Pembakaran Dalam Bensin / Diesel dari Pengecoran Besi / Baja:<br>1. Cylinder Block<br>2. Cylinder Head<br>3. Fly Wheel | Kokas                          |
|    |                                                                                                                                                | Pasir Resin                    |
|    |                                                                                                                                                | Pelapis / Coating              |
|    |                                                                                                                                                | Skrap Besi / Baja              |

**16. 28113 – Industri Komponen Dan Suku Cadang Mesin Dan Turbin**

| No | Jenis Barang                                                                                                                                                                        | Uraian Komponen Utama          |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1  | Komponen Industri Alat Mesin Pertanian dari Pengecoran Aluminium:<br>1. Cylinder Block Motor Bakar Bensin<br>2. Cylinder Head Motor Bakar Bensin<br>3. Gear Case Motor Bakar Bensin | Aluminium Ingot / Skrap / Slab |
| 2  | Komponen Industri Alat Mesin Pertanian dari Pengecoran Besi / Baja:<br>1. Flywheel Motor Bakar Bensin<br>2. Flywheel Motor Bakar Diesel<br>3. Cylinder Block Motor Bakar Diesel     | Kokas                          |
|    |                                                                                                                                                                                     | Pasir Resin                    |
|    |                                                                                                                                                                                     | Pelapis / Coating              |

|   |                                              |                   |
|---|----------------------------------------------|-------------------|
|   | 4. Cylinder Head Motor Bakar Diesel          | Skrap Besi / Baja |
| 3 | Mechanical Carbon untuk Peralatan Permesinan | Packing Ring      |
|   |                                              | Seal Ring         |
|   |                                              | Bushing           |

**17. 28130 – Industri Pompa Lainnya, Kompresor, Kran dan Klep/Katup**

| No | Jenis Barang                            | Uraian Komponen Utama                          |
|----|-----------------------------------------|------------------------------------------------|
| 1  | Pompa Sentrifugal Vertikal              | Impeller (Baling-Baling Pemutar)               |
|    |                                         | Shaft / Poros                                  |
|    |                                         | Bearing Housing                                |
|    |                                         | Casing / Bowl (Diffuser / Volute)              |
|    |                                         | Column / Can                                   |
|    |                                         | Discharge Head / Pump Head / Motor Stool       |
|    |                                         | Mechanical Seal / Packing                      |
|    |                                         | Sole Plate / Mounting Plate                    |
| 2  | Pompa Sentrifugal Horizontal            | Impeller (Baling-Baling Pemutar)               |
|    |                                         | Shaft / Poros                                  |
|    |                                         | Bearing Housing                                |
|    |                                         | Casing (Diffuser / Volute)                     |
|    |                                         | Mechanical Seal / Packing                      |
|    |                                         | Base Plate / Pedestal                          |
| 3  | Pompa Perpindahan Positif Reciprocating | Liquid Head                                    |
|    |                                         | Plunger / Piston / Diaphragm                   |
|    |                                         | Crankshaft                                     |
|    |                                         | Bearing Housing                                |
|    |                                         | Packing                                        |
|    |                                         | Base Plate                                     |
| 4  | Pompa Perpindahan Positif Rotary        | Casing                                         |
|    |                                         | Screw / Gear / Vane / Lobe / Shaft             |
|    |                                         | Bearing Housing                                |
|    |                                         | Mechanical Seal / Packing                      |
|    |                                         | Base Plate                                     |
| 5  | Gate / Globe Valve Manual               | Body (Maximum Semi Finished)                   |
|    |                                         | Bonnet / Cover (Maximum Semi Finished)         |
|    |                                         | Disc / Wedge (Maximum Semi Finished)           |
|    |                                         | Stem / Shaft (Maximum Semi Finished)           |
|    |                                         | Seat (Maximum Semi Finished)                   |
|    |                                         | Handwheel                                      |
|    |                                         | Gasket dan Packing                             |
|    |                                         | Bolt & Nut                                     |
|    |                                         | Yoke                                           |
| 6  | Ball Valve Manual                       | Body (Maximum Semi Finished)                   |
|    |                                         | Bonnet / Cover / Gland (Maximum Semi Finished) |

|    |                                       |                                        |
|----|---------------------------------------|----------------------------------------|
|    |                                       | Ballsphere (Maximum Semi Finished)     |
|    |                                       | Stem / Shaft (Maximum Semi Finished)   |
|    |                                       | Seat (Maximum Semi Finished)           |
|    |                                       | Lever                                  |
|    |                                       | Gasket dan O-Ring, Packing             |
|    |                                       | Bolt & Nut                             |
|    |                                       | Adaptor                                |
| 7  | Check Valve Manual                    | Body (Maximum Semi finished)           |
|    |                                       | Bonnet / Cover (Maximum Semi Finished) |
|    |                                       | Disc (Maximum Semi Finished)           |
|    |                                       | Arm                                    |
|    |                                       | Seat (Maximum Semi Finished)           |
|    |                                       | Gasket                                 |
|    |                                       | Bolt & Nut                             |
| 8  | Butterfly Valve Manual                | Body (Maximum Semi Finished)           |
|    |                                       | Disc (Maximum Semi Finished)           |
|    |                                       | Stem / Shaft (Maximum Semi Finished)   |
|    |                                       | Seat (Maximum Semi Finished)           |
|    |                                       | Lever                                  |
|    |                                       | Gasket                                 |
|    |                                       | Bolt & Nut                             |
| 9  | Air Valve (Single Chamber)            | Body                                   |
|    |                                       | Cover                                  |
|    |                                       | Cage                                   |
|    |                                       | PVC & Nylon                            |
|    |                                       | Ball                                   |
|    |                                       | O-Ring                                 |
|    |                                       | Screw                                  |
| 10 | Foot Valve                            | Katup Satu Arah                        |
|    |                                       | Rumah Katup                            |
|    |                                       | Saringan                               |
|    |                                       | Mounting Pipa                          |
|    |                                       | Pengikat Ground Screw                  |
| 11 | Needle Valve                          | Body (Maximum Semi Finished)           |
|    |                                       | Cover (Maximum Semi Finished)          |
|    |                                       | Stem (Maximum Semi Finished)           |
|    |                                       | Packing & O-Ring                       |
|    |                                       | Bolt & Nut                             |
| 12 | Strainer (Steel Plate Water Strainer) | Body                                   |
|    |                                       | Bracket                                |
|    |                                       | Gasket                                 |
|    |                                       | Name Plate                             |
|    |                                       | Flange                                 |
|    |                                       | Perforated Plate                       |
|    |                                       | Vent Valve                             |
|    |                                       | Drain Valve                            |
|    |                                       | Hinge Bolt / Nut                       |

|    |                          |                                                       |
|----|--------------------------|-------------------------------------------------------|
| 13 | Katup Tabung LPG         | Kuningan                                              |
|    |                          | Karet                                                 |
|    |                          | Pegas                                                 |
|    |                          | Plastik                                               |
| 14 | Regulator Tekanan Rendah | Upper                                                 |
|    |                          | Body                                                  |
|    |                          | Spindle                                               |
|    |                          | Valvebeat - pengunci katup gas agar tidak mudah lepas |
|    |                          | Pin                                                   |
|    |                          | Valvepad Rubber                                       |
|    |                          | Linkage                                               |
|    |                          | Holder                                                |
|    |                          | Rubber Diaphragma                                     |
|    |                          | Compress Spring                                       |
|    |                          | Adjuster                                              |
|    |                          | Stopvalve Seat                                        |
|    |                          | Valvebeat - pengunci on/off                           |
|    |                          | Coil Spring                                           |
|    |                          | Bushing                                               |
|    |                          | Axial Brass                                           |
|    |                          | Spindle Brass                                         |
|    |                          | Bushing Brass                                         |
|    |                          | Knob Black                                            |
|    |                          | O-Ring                                                |
|    |                          | Bola Oto                                              |
|    |                          | Pressure Gauge                                        |
| 15 | Regulator Tekanan Tinggi | Upper                                                 |
|    |                          | Body                                                  |
|    |                          | Spindle                                               |
|    |                          | Valvebeat - pengunci katup gas agar tidak mudah lepas |
|    |                          | Nut                                                   |
|    |                          | Screw                                                 |
|    |                          | Filternet                                             |
|    |                          | Rubber Diaphragma                                     |
|    |                          | O-Ring                                                |
|    |                          | Valvepad Rubber                                       |
|    |                          | Pressure Gauge                                        |
|    |                          | Tension Spring                                        |
|    |                          | Tapper Spring                                         |
|    |                          | Coil Spring                                           |
|    |                          | Pin                                                   |
|    |                          | Axial Brass                                           |
|    |                          | Spindle Brass                                         |
|    |                          | Outlet Brass                                          |
|    |                          | Knob Black                                            |
|    |                          | Holder Plate                                          |
|    |                          | Stopvalve Seat                                        |
|    |                          | Valvebeat - pengunci on/off                           |
|    |                          | Bushing                                               |

|    |                                                      |                                                |
|----|------------------------------------------------------|------------------------------------------------|
|    |                                                      | Adjuster Cup                                   |
|    |                                                      | Adjuster Screw                                 |
|    |                                                      | Nut Adjuster                                   |
|    |                                                      | Bracket                                        |
|    |                                                      | Tighten Screw                                  |
|    |                                                      | Cup Screw                                      |
| 16 | Pompa Air Sentrifugal untuk Irigasi dengan Penggerak | Engine atau Penggerak                          |
|    |                                                      | Impeller (Baling-Baling Pemutar)               |
|    |                                                      | Casing (Housing, Inlet, dan/atau Outlet)       |
|    |                                                      | Shaft (Poros Pemutar)                          |
|    |                                                      | Frame                                          |
|    |                                                      | Bearing dan Seal                               |
| 17 | Pompa Air Sentrifugal untuk Irigasi Tanpa Penggerak  | Impeller (Baling-Baling Pemutar)               |
|    |                                                      | Casing (Housing, Inlet, dan/atau Outlet)       |
|    |                                                      | Shaft (Poros Pemutar)                          |
|    |                                                      | Bearing dan Seal                               |
| 18 | Ball Valve Actuated                                  | Actuator                                       |
|    |                                                      | Adaptor                                        |
|    |                                                      | Ballsphere (Maximum Semi Finished)             |
|    |                                                      | Body (Maximum Semi Finished)                   |
|    |                                                      | Bolt & Nut                                     |
|    |                                                      | Bonnet / Cover / Gland (Maximum Semi Finished) |
|    |                                                      | Gasket dan O-Ring, Packing                     |
|    |                                                      | Lever                                          |
|    |                                                      | Seat (Maximum Semi Finished)                   |
|    |                                                      | Stem / Shaft (Maximum Semi Finished)           |
| 19 | Butterfly Valve Actuated                             | Actuator                                       |
|    |                                                      | Body (Maximum Semi Finished)                   |
|    |                                                      | Bolt & Nut                                     |
|    |                                                      | Disc (Maximum Semi Finished)                   |
|    |                                                      | Gasket                                         |
|    |                                                      | Lever                                          |
|    |                                                      | Seat (Maximum Semi Finished)                   |
|    |                                                      | Stem / Shaft (Maximum Semi Finished)           |
| 20 | Check Valve Actuated                                 | Actuator                                       |
|    |                                                      | Arm                                            |
|    |                                                      | Body (Maximum Semi Finished)                   |
|    |                                                      | Bolt & Nut                                     |
|    |                                                      | Bonnet / Cover (Maximum Semi Finished)         |
|    |                                                      | Disc (Maximum Semi Finished)                   |
|    |                                                      | Gasket                                         |
|    |                                                      | Seat (Maximum Semi Finished)                   |
| 21 | Double Block and Bleed Valve                         | Adapter / End Connection / Closure             |

|    |                                                                                                                                        |                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|    |                                                                                                                                        | Ball (Maximum Semi Finished)           |
|    |                                                                                                                                        | Body (Maximum Semi Finished)           |
|    |                                                                                                                                        | Bolting (Bolt and Nut)                 |
|    |                                                                                                                                        | Bonnet / Gland (Maximum Semi Finished) |
|    |                                                                                                                                        | Lever / Gear                           |
|    |                                                                                                                                        | Seal (Gasket, O-Ring)                  |
|    |                                                                                                                                        | Seat (Maximum Semi Finished)           |
|    |                                                                                                                                        | Stem (Maximum Semi Finished)           |
| 22 | Gate / Globe Valve Actuated                                                                                                            | Actuator                               |
|    |                                                                                                                                        | Body (Maximum Semi Finished)           |
|    |                                                                                                                                        | Bolt & Nut                             |
|    |                                                                                                                                        | Bonnet / Cover (Maximum Semi Finished) |
|    |                                                                                                                                        | Disc / Wedge (Maximum Semi Finished)   |
|    |                                                                                                                                        | Gasket dan Packing                     |
|    |                                                                                                                                        | Handwheel                              |
|    |                                                                                                                                        | Seat (Maximum Semi finished)           |
|    |                                                                                                                                        | Stem / Shaft (Maximum Semi Finished)   |
|    |                                                                                                                                        | Yoke                                   |
| 23 | Komponen industri alat mesin pertanian dari pengecoran aluminium: Casing Pompa                                                         | Aluminium Ingot / Skrap / Slab         |
| 24 | Komponen industri alat mesin pertanian dari pengecoran besi/baja:<br>1. Impeller Pompa Irigasi<br>2. Volute<br>3. Casing Pompa Irigasi | Kokas                                  |
|    |                                                                                                                                        | Pasir Resin                            |
|    |                                                                                                                                        | Pelapis / Coating                      |
|    |                                                                                                                                        | Skrap Besi / Baja                      |
| 25 | Komponen industri pompa sentrifugal/perpindahan positif dari pengecoran besi/baja:<br>1. Impeller<br>2. Shaft<br>3. Casing             | Kokas                                  |
|    |                                                                                                                                        | Pasir Resin                            |
|    |                                                                                                                                        | Pelapis / Coating                      |
|    |                                                                                                                                        | Skrap Besi / Baja                      |
| 26 | Protector / Seal                                                                                                                       | Bag Protector                          |
|    |                                                                                                                                        | Body Seal / Body Protector             |
|    |                                                                                                                                        | Mechanical Seal                        |
|    |                                                                                                                                        | Runner                                 |
|    |                                                                                                                                        | Shaft                                  |
|    |                                                                                                                                        | Thrust Bearing                         |
| 27 | Regulator LNG                                                                                                                          | Bushing                                |
|    |                                                                                                                                        | Fastener                               |
|    |                                                                                                                                        | Lower Casing                           |
|    |                                                                                                                                        | Membrane                               |
|    |                                                                                                                                        | O-Ring                                 |
|    |                                                                                                                                        | Pegas / Spring                         |
|    |                                                                                                                                        | Retainer                               |

|    |                              |                                        |
|----|------------------------------|----------------------------------------|
|    |                              | Shut Off Valve                         |
|    |                              | Upper Casing                           |
| 28 | Rotary Gas Separator         | Base                                   |
|    |                              | Head                                   |
|    |                              | Housing                                |
|    |                              | Inducer                                |
|    |                              | Screen Intake                          |
|    |                              | Shaft                                  |
| 29 | Single Block and Bleed Valve | Adapter / End Connection / Closure     |
|    |                              | Ball (Maximum Semi Finished)           |
|    |                              | Body (Maximum Semi Finished)           |
|    |                              | Bolting (Bolt and Nut)                 |
|    |                              | Bonnet / Gland (Maximum Semi Finished) |
|    |                              | Lever / Gear                           |
|    |                              | Seal (Gasket, O-Ring)                  |
|    |                              | Seat (Maximum Semi Finished)           |
|    |                              | Stem (Maximum Semi Finished)           |

**18. 28152 – Industri Oven, Perapian dan Tungku Pembakar Sejenis Yang Menggunakan Arus Listrik**

| No | Jenis Barang | Uraian Komponen Utama                    |
|----|--------------|------------------------------------------|
| 1  | Insinerator  | Air Polution Control                     |
|    |              | Blower                                   |
|    |              | Burner                                   |
|    |              | Chimney / Cerobong Asap                  |
|    |              | Control Panel                            |
|    |              | Feeding / Pengumpan                      |
|    |              | Primary Chamber / Ruang Bakar Utama      |
|    |              | Secondary Chamber / Ruang Bakar Sekunder |
|    |              | Thermocouple                             |

**19. 28160 – Industri Alat Pengangkat dan Pemindah**

| No | Jenis Barang   | Uraian Komponen Utama    |
|----|----------------|--------------------------|
| 1  | Lift Penumpang | Motor / Traction Machine |
|    |                | Dudukan Mesin            |
|    |                | Kabin Penumpang          |
|    |                | Counterweight            |
|    |                | Control System           |
|    |                | Safety Devices           |
|    |                | Kabel Listrik / Power    |
|    |                | ARD                      |
|    |                | Wire Rope                |
|    |                | Rails                    |
|    |                | Entrance Set             |
|    |                | Kabel Travelling         |
|    |                | Kabel Shaft              |

|   |                                   |                                            |
|---|-----------------------------------|--------------------------------------------|
|   |                                   | Compensating Chain / Rope                  |
|   |                                   | Bracket Rail                               |
| 2 | Lift Servis / Barang              | Motor / Traction Machine                   |
|   |                                   | Dudukan Mesin                              |
|   |                                   | Kabin Penumpang                            |
|   |                                   | Counterweight                              |
|   |                                   | Control System                             |
|   |                                   | Safety Devices                             |
|   |                                   | Kabel Power                                |
|   |                                   | ARD                                        |
|   |                                   | Wire Rope                                  |
|   |                                   | Rails                                      |
|   |                                   | Entrance Set                               |
|   |                                   | Kabel Travelling                           |
|   |                                   | Kabel Shaft                                |
|   |                                   | Compensating Chain / Rope                  |
|   |                                   | Bracket Rail                               |
| 3 | Lift Pasien / Rumah Sakit         | Motor / Traction Machine                   |
|   |                                   | Dudukan Mesin                              |
|   |                                   | Kabin Penumpang                            |
|   |                                   | Counterweight                              |
|   |                                   | Control System                             |
|   |                                   | Safety Devices                             |
|   |                                   | Kabel Power                                |
|   |                                   | ARD                                        |
|   |                                   | Wire Rope                                  |
|   |                                   | Rails                                      |
|   |                                   | Entrance Set                               |
|   |                                   | Kabel Travelling                           |
|   |                                   | Kabel Shaft                                |
|   |                                   | Compensating Chain / Rope                  |
|   |                                   | Bracket Rail                               |
| 4 | Box Bed Elevator / Kabin Elevator | Plat Besi                                  |
|   |                                   | Plat Carbon Steel (CS)                     |
|   |                                   | Plat Stainless Steel (SS)                  |
|   |                                   | Besi Siku                                  |
|   |                                   | Accrylic                                   |
|   |                                   | Besi Hollow                                |
|   |                                   | Besi Kanal UNP                             |
|   |                                   | Coating / Anti Karat                       |
| 5 | Eskalator                         | Machine                                    |
|   |                                   | Handrail                                   |
|   |                                   | Balustrade (Stainless Steel / Glass Panel) |

|    |                                                           |                                  |
|----|-----------------------------------------------------------|----------------------------------|
|    |                                                           | Comb Plate                       |
|    |                                                           | Step (Tangga)                    |
|    |                                                           | Control Panel                    |
|    |                                                           | Step Chain                       |
|    |                                                           | Skirt Panel                      |
|    |                                                           | Landing Floor Plate              |
|    |                                                           | Cover Cladding                   |
|    |                                                           | Kerangka Eskalator Prime         |
| 6  | Travelator                                                | Machine                          |
|    |                                                           | Handrail                         |
|    |                                                           | Balustrade                       |
|    |                                                           | Comb Plate                       |
|    |                                                           | Palet                            |
|    |                                                           | Control Panel                    |
|    |                                                           | Step Chain                       |
|    |                                                           | Skirt Panel                      |
|    |                                                           | Landing Floor Plate              |
|    |                                                           | Cover Cladding                   |
|    |                                                           | Kerangka Eskalator Prime         |
| 7  | Check In Conveyor / Weighing Conveyor                     | Belt                             |
|    |                                                           | Drive Motor / Motor Penggerak    |
|    |                                                           | Electronic Scale                 |
|    |                                                           | Frame                            |
|    |                                                           | Panel / Sistem Kontrol           |
| 8  | General Transport Conveyor                                | Belt                             |
|    |                                                           | Drive Motor / Motor Penggerak    |
|    |                                                           | Frame                            |
|    |                                                           | Panel / Sistem kontrol           |
|    |                                                           | Roller                           |
| 9  | Lift Service Sepeda Motor                                 | Base / Alas Sepeda Motor         |
|    |                                                           | Pengangkat Hidrolik Sepeda Motor |
|    |                                                           | Pengunci Roda Lift               |
|    |                                                           | Penjepit Roda Sepeda Motor       |
|    |                                                           | Rangka Dasar                     |
|    |                                                           | Rangka Pengungkit/ Pengangkat    |
|    |                                                           | Roda Pemindah Lift/ Castor Wheel |
| 10 | Overlapping Overslat Conveyor / Overlapping Slat Conveyor | Drive Motor / Motor Penggerak    |
|    |                                                           | Frame                            |
|    |                                                           | Panel / Sistem Kontrol           |
|    |                                                           | Rubber Slat                      |
| 11 | Two Post Lift / Lift Pengangkat Mobil                     | Hydraulic Power Pack             |
|    |                                                           | Lengan                           |

|  |  |                      |
|--|--|----------------------|
|  |  | Lock / Pengunci lift |
|  |  | Tiang Lift / Rangka  |

**20. 28192 - Industri Mesin Timbangan**

| No. | Jenis Barang                                                   | Uraian Komponen Utama                    |
|-----|----------------------------------------------------------------|------------------------------------------|
| 1   | Timbangan Badan Digital<br>Dilengkapi Pengukur Tinggi<br>Badan | Batang Pengukur Tinggi (Stadiometer Rod) |
|     |                                                                | Catu Daya / Power Supply                 |
|     |                                                                | Headpiece / Slider Pengukur Tinggi       |
|     |                                                                | Load Cell (Sensor Berat)                 |
|     |                                                                | Mounting Load Cell / Dudukan Sensor      |
|     |                                                                | Panel Control / Display                  |
|     |                                                                | Platform Pijakan (Weighing Platform)     |
|     |                                                                | Rangka / Housing (Frame & Casing)        |

**21. 28193 - Industri Mesin Pendingin**

| No. | Jenis Barang                                                   | Uraian Komponen Utama            |
|-----|----------------------------------------------------------------|----------------------------------|
| 1   | Menara Pendingin Sistem Terbuka (Cooling Tower Open System)    | Basin                            |
|     |                                                                | Body / Casing                    |
|     |                                                                | Filler                           |
|     |                                                                | Fan / Kipas                      |
|     |                                                                | Fastener                         |
|     |                                                                | Frame                            |
|     |                                                                | Motor Penggerak                  |
|     |                                                                | Water Distribution System        |
|     |                                                                | Transmisi                        |
| 2   | Menara Pendingin Sistem Tertutup (Cooling Tower Closed System) | Basin                            |
|     |                                                                | Body / Casing                    |
|     |                                                                | Filler                           |
|     |                                                                | Fan / Kipas                      |
|     |                                                                | Fastener                         |
|     |                                                                | Frame                            |
|     |                                                                | Motor Penggerak                  |
|     |                                                                | Water Distribution System        |
|     |                                                                | Transmisi                        |
|     |                                                                | Pompa Sirkulasi                  |
|     |                                                                | Heat Exchanger                   |
| 3   | Air Handling Unit                                              | Access Door Assembly             |
|     |                                                                | Air Electric Heater              |
|     |                                                                | Air Filter (Pre / Medium / HEPA) |

|   |                    |                                                |
|---|--------------------|------------------------------------------------|
|   |                    | Base Unit                                      |
|   |                    | Blower (Fan)                                   |
|   |                    | Casing Insulated Panel (Sandwich Panel)        |
|   |                    | Control Panel / Control Board / Remote Control |
|   |                    | Cooling Coil (Chilled Water / DX Coil)         |
|   |                    | Drain Pan                                      |
|   |                    | Expansion Device                               |
|   |                    | Frame unit                                     |
|   |                    | Induction Motor                                |
|   |                    | Pressure Differential Indicator                |
|   |                    | Temperature Sensor                             |
|   |                    | Wire Harness                                   |
| 4 | Air-Cooled Chiller | Access Door Assembly                           |
|   |                    | Base Unit                                      |
|   |                    | Blower (Fan)                                   |
|   |                    | Casing / Frame                                 |
|   |                    | Compressor                                     |
|   |                    | Condenser                                      |
|   |                    | Control Panel / Control Board / Remote Control |
|   |                    | Evaporator                                     |
|   |                    | Expansion Device                               |
|   |                    | Filter Drier                                   |
|   |                    | Piping (Tube Assy)                             |
|   |                    | Receiver / Accumulator                         |
|   |                    | Service Valve                                  |
|   |                    | Sight Glass                                    |
|   |                    | Solenoid Valve                                 |
|   |                    | Temperature & Pressure Sensor                  |
|   |                    | Thermostat / Controller                        |
|   |                    | Wire Harness                                   |
| 5 | Cold Storage       | Condensing Unit                                |
|   |                    | Control Panel Box Assy / Electrical Panel Box  |
|   |                    | Door Assy / Pintu Cold Storage                 |
|   |                    | Evaporator                                     |
|   |                    | Kabinet Sandwich Panel                         |
|   |                    | Pemipaan / Piping Assy                         |
|   |                    | Wire Harness                                   |

|   |                                                    |                                                |
|---|----------------------------------------------------|------------------------------------------------|
| 6 | Condensing Unit                                    | Accumulator                                    |
|   |                                                    | Chassis Machine Assy                           |
|   |                                                    | Compressor Unit                                |
|   |                                                    | Condensor Unit                                 |
|   |                                                    | Electrical Panel Box Assy                      |
|   |                                                    | Receiver Tank                                  |
| 7 | Ducted Split System / Ducted Split Air Conditioner | Air Filter                                     |
|   |                                                    | Base Unit                                      |
|   |                                                    | Blower (Fan)                                   |
|   |                                                    | Compressor + Heater Compressor                 |
|   |                                                    | Condenser Coil                                 |
|   |                                                    | Condenser Fan + Motor                          |
|   |                                                    | Control Panel / Control Board / Remote Control |
|   |                                                    | Drain Pan                                      |
|   |                                                    | Evaporator Coil                                |
|   |                                                    | Expansion Device                               |
|   |                                                    | Frame Unit                                     |
|   |                                                    | Insulated Casing / Panel                       |
|   |                                                    | Refrigerant Piping                             |
|   |                                                    | Service Valve                                  |
|   |                                                    | Thermostat                                     |
|   |                                                    | Wire Harness                                   |
| 8 | Outdoor Unit                                       | Accumulator                                    |
|   |                                                    | Base Frame                                     |
|   |                                                    | Casing / Housing                               |
|   |                                                    | Compressor + Heater Compressor                 |
|   |                                                    | Condenser Coil                                 |
|   |                                                    | Condenser Fan + Motor                          |
|   |                                                    | Controller (Kontaktor + Overload Protector)    |
|   |                                                    | Filter Drier                                   |
|   |                                                    | Oil Separator                                  |
|   |                                                    | Phase Failure Relay                            |
|   |                                                    | Pressure Switch (High & Low)                   |
|   |                                                    | Service Valve                                  |
|   |                                                    | Sight Glass                                    |
|   |                                                    | Valve Refrigerant / Ball Valve                 |
|   |                                                    | Wire Harness                                   |
| 9 | Pabrik Es Balok Portabel Knockdown                 | Cool Box / Tempat Penyimpanan Es               |
|   |                                                    | Pan Pembekuan                                  |
|   |                                                    | Rak Pan Pembekuan                              |
|   |                                                    | Reservoir                                      |

|    |                                     |                                                     |
|----|-------------------------------------|-----------------------------------------------------|
|    |                                     | Sandwich Panel                                      |
|    |                                     | Sistem Mesin Pendingin                              |
| 10 | Pabrik Es Slurry Portabel Knockdown | Cool Box / Tempat Penyimpanan Es                    |
|    |                                     | Crusher                                             |
|    |                                     | Pan Pembekuan                                       |
|    |                                     | Rak Pan Pembekuan                                   |
|    |                                     | Reservoir                                           |
|    |                                     | Sandwich Panel                                      |
|    |                                     | Sistem Mesin Pendingin                              |
|    |                                     |                                                     |
| 11 | Rooftop Package Unit                | Accumulator, Sight Glass, Ball Valve, Oil Separator |
|    |                                     | Air Electric Heater                                 |
|    |                                     | Air Filter                                          |
|    |                                     | Base Frame                                          |
|    |                                     | Casing / Weatherproof Housing                       |
|    |                                     | Compressor                                          |
|    |                                     | Condenser Coil                                      |
|    |                                     | Condenser Fan                                       |
|    |                                     | Control Panel / Control Board / Remote Control      |
|    |                                     | Evaporator Coil                                     |
|    |                                     | Expansion Device                                    |
|    |                                     | Filter Drier                                        |
|    |                                     | Phase Failure Relay                                 |
|    |                                     | Pressure Differential Indicator                     |
|    |                                     | Pressure Gauge                                      |
|    |                                     | Pressure Switch (High & Low)                        |
|    |                                     | Refrigerant Piping (Tube Assy)                      |
|    |                                     | Service Valve                                       |
|    |                                     | Supply Fan (Blower)                                 |
|    |                                     | Temperature & Pressure Sensor                       |
|    |                                     | Thermostat / Controller                             |
|    |                                     | Wire Harness                                        |
| 12 | Water-Cooled Chiller                | Access Door Assembly                                |
|    |                                     | Base Unit                                           |
|    |                                     | Casing / Frame                                      |
|    |                                     | Compressor                                          |
|    |                                     | Control Panel / Control Board / Remote Control      |
|    |                                     | Evaporator                                          |
|    |                                     | Expansion Device                                    |
|    |                                     | Filter Drier                                        |
|    |                                     | Piping (Tube Assy)                                  |
|    |                                     |                                                     |

|  |  |                               |
|--|--|-------------------------------|
|  |  | Receiver / Accumulator        |
|  |  | Service Valve                 |
|  |  | Shell and Tube Condenser      |
|  |  | Sight Glass                   |
|  |  | Solenoid Valve                |
|  |  | Temperature & Pressure Sensor |
|  |  | Thermostat / Controller       |
|  |  | Wire Harness                  |

**22. 28199 - Industri Mesin Untuk Keperluan Umum Lainnya YTDL**

| No. | Jenis Barang                                           | Uraian Komponen Utama                              |
|-----|--------------------------------------------------------|----------------------------------------------------|
| 1   | Alat Pemadam Api Portabel (APAP)                       | Media                                              |
|     |                                                        | Tabung                                             |
|     |                                                        | Powder Coating                                     |
|     |                                                        | Valve Assy                                         |
|     |                                                        | Hose Assy                                          |
|     |                                                        | Bracket                                            |
|     |                                                        | Nitrogen                                           |
|     |                                                        | Alas / Skirt                                       |
| 2   | Alat Pemadam Api Beroda (APAB)                         | Media                                              |
|     |                                                        | Tabung                                             |
|     |                                                        | Powder Coating                                     |
|     |                                                        | Valve Assy                                         |
|     |                                                        | Hose Assy                                          |
|     |                                                        | Bracket                                            |
|     |                                                        | Nitrogen                                           |
|     |                                                        | Trolley                                            |
| 3   | Water Treatment Plant                                  | Tangki Reaktor / Tangki WTP Container              |
|     |                                                        | Multimedia Filter                                  |
|     |                                                        | Softener Filter                                    |
|     |                                                        | Chemical Dosing System                             |
|     |                                                        | Disinfectant (Chlorine Sterilizer / UV Sterilizer) |
|     |                                                        | Pompa                                              |
|     |                                                        | Pipa dan Valve                                     |
|     |                                                        | Sensor / Instrumentasi                             |
|     |                                                        | Panel Elektrik                                     |
| 4   | Instalasi Pengolahan Air Limbah (Ozone Reactor System) | Tabung Filter FRP                                  |
|     |                                                        | Oksigen Konsentrator                               |
|     |                                                        | Pipa PVC                                           |
|     |                                                        | Resin                                              |
|     |                                                        | Mesin Pompa Air                                    |
|     |                                                        | Kabel                                              |
|     |                                                        | Media Bakteri Bioball                              |

|   |                                   |                              |
|---|-----------------------------------|------------------------------|
|   |                                   | Panel Kontrol                |
|   |                                   | Static Mixer                 |
|   |                                   | Lampu Ultraviolet            |
|   |                                   | Reactor Tank Stainless Steel |
|   |                                   | Ventury Injector             |
|   |                                   | Water Level Control          |
|   |                                   | Structure                    |
| 5 | Fan Axial                         | Blade                        |
|   |                                   | Coating                      |
|   |                                   | Fastener                     |
|   |                                   | Hub                          |
|   |                                   | Kabel Gland                  |
|   |                                   | Motor                        |
|   |                                   | Plat Baja                    |
|   |                                   | Terminal Block               |
|   |                                   | Terminal Box                 |
| 6 | Fan Cabinet / Cabinet Fan         | Alumunium Profil             |
|   |                                   | Baja UNP                     |
|   |                                   | Bare Fan                     |
|   |                                   | Bushing                      |
|   |                                   | Coating                      |
|   |                                   | Fastener                     |
|   |                                   | Motor                        |
|   |                                   | Panel Foam                   |
|   |                                   | Plat Baja                    |
|   |                                   | Pulley                       |
|   |                                   | V-Belt                       |
| 7 | Fan Centrifugal / Centrifugal Fan | Baja UNP                     |
|   |                                   | Bare Fan                     |
|   |                                   | Bushing                      |
|   |                                   | Coating                      |
|   |                                   | Fastener                     |
|   |                                   | Motor                        |
|   |                                   | Plat Baja                    |
|   |                                   | Pulley                       |
|   |                                   | V-Belt                       |
| 8 | Industrial Propeller Fan          | Blade                        |
|   |                                   | Coating                      |
|   |                                   | Fastener                     |
|   |                                   | Hub                          |
|   |                                   | Kabel Gland                  |
|   |                                   | Motor                        |
|   |                                   | Plat Baja                    |
|   |                                   | Terminal Block               |
|   |                                   | Terminal Box                 |

|    |                                                                                                     |                                                                                 |
|----|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 9  | Instalasi Pengolahan Air Limbah (IPAL) / Sewage Treatment Plant (STP) Biofilter / Anaerobik         | Inline Chlorinator                                                              |
|    |                                                                                                     | Media Tumbuh Bakteri                                                            |
|    |                                                                                                     | Pipa                                                                            |
|    |                                                                                                     | Tangki Reaktor                                                                  |
|    |                                                                                                     | Tube Settler                                                                    |
| 10 | Instalasi Pengolahan Air Limbah (IPAL) / Sewage Treatment Plant (STP) Biofilter / Anaerobik Aerobik | Blower System (Blower, Diffuser Coarse Bubble)                                  |
|    |                                                                                                     | Inline Chlorinator                                                              |
|    |                                                                                                     | Media Tumbuh Bakteri                                                            |
|    |                                                                                                     | Panel Elektrik                                                                  |
|    |                                                                                                     | Pipa                                                                            |
|    |                                                                                                     | Pompa                                                                           |
|    |                                                                                                     | Tangki Reaktor                                                                  |
| 11 | Instalasi Pengolahan Air Limbah (IPAL) / Sewage Treatment Plant (STP) untuk Fasilitas Kesehatan     | Tube Settler                                                                    |
|    |                                                                                                     | Alat Netralisasi                                                                |
|    |                                                                                                     | Blower System (Blower, Diffuser Coarse Bubble)                                  |
|    |                                                                                                     | Disinfectant (Inline Chlorinator/ UV Sterilizer / Ozon Generator)               |
|    |                                                                                                     | Media Tumbuh Bakteri                                                            |
|    |                                                                                                     | Multi Media Filter                                                              |
|    |                                                                                                     | Panel Elektrik                                                                  |
|    |                                                                                                     | Pipa                                                                            |
|    |                                                                                                     | Pompa                                                                           |
|    |                                                                                                     | Tangki Reaktor                                                                  |
| 12 | Mesin Reverse Osmosis                                                                               | Tube Setter                                                                     |
|    |                                                                                                     | Catu Daya (Power Supply)                                                        |
|    |                                                                                                     | Filter Akhir Karbon (Carbon Post-Filter)                                        |
|    |                                                                                                     | Flow Meter (Restrictor)                                                         |
|    |                                                                                                     | Membran Reverse Osmosis (Membran Inti Semipermeabel dan Lapisan Tipis Komposit) |
|    |                                                                                                     | Membran Tabung (Housing): SS / FRP                                              |
|    |                                                                                                     | Modul Sistem Kontrol                                                            |
|    |                                                                                                     | Pompa Tekanan Tinggi (High Pressure Pump)                                       |
|    |                                                                                                     | Pre-Filter (Sediment Filter-Spun/PP, Activated Carbon Filter - GAC/CTO)         |
| 13 | Rotary Screen / Drum Screen                                                                         | Drum Silinder Berlubang                                                         |
|    |                                                                                                     | Gearbox / Reducer / Cyclo Drive                                                 |
|    |                                                                                                     | Inlet Hopper                                                                    |
|    |                                                                                                     | Motor Penggerak                                                                 |
|    |                                                                                                     | Outlet Chute                                                                    |
|    |                                                                                                     | Rangka Utama                                                                    |
|    |                                                                                                     | Roller Penopang                                                                 |

|    |                                                                                            |                                                                                      |
|----|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |                                                                                            | Sistem Kontrol                                                                       |
|    |                                                                                            | Sistem Transmisi (Chain / Belt / Gear)                                               |
| 14 | Scrubber                                                                                   | Akrilik                                                                              |
|    |                                                                                            | Blower                                                                               |
|    |                                                                                            | Coating                                                                              |
|    |                                                                                            | Fastener                                                                             |
|    |                                                                                            | Hollow                                                                               |
|    |                                                                                            | Karet Mounting                                                                       |
|    |                                                                                            | Pompa                                                                                |
|    |                                                                                            | PVC Sheet                                                                            |
|    |                                                                                            | Sistem Elektrikal                                                                    |
|    |                                                                                            | Sistem Filtrasi                                                                      |
|    |                                                                                            | Sistem Pemipaan                                                                      |
| 15 | Silencer Attenuator / Sound Attenuator                                                     | Coating                                                                              |
|    |                                                                                            | Fastener                                                                             |
|    |                                                                                            | Glass Cloth                                                                          |
|    |                                                                                            | Plat Baja                                                                            |
|    |                                                                                            | Rockwool                                                                             |
| 16 | Unit Penghasil Air Minum dari Kelembapan Udara / Atmospheric Water Generator Tipe Permanen | Frame dan Cover                                                                      |
|    |                                                                                            | Unit Filtrasi dan Sterilisasi (termasuk Controller)                                  |
|    |                                                                                            | Unit Penghasil Embun                                                                 |
| 17 | Unit Penghasil Air Minum dari Kelembapan Udara / Atmospheric Water Generator Tipe Trailer  | Trailer Unit Penghasil Air Minum dari Kelembapan Udara / Atmospheric Water Generator |
|    |                                                                                            | Unit Filtrasi dan Sterilisasi (termasuk Controller)                                  |
|    |                                                                                            | Unit Penghasil Embun                                                                 |

**23. 28210 – Industri Mesin Pertanian dan Kehutanan**

| No | Jenis Barang   | Uraian Komponen Utama                                                    |
|----|----------------|--------------------------------------------------------------------------|
| 1  | Traktor Roda 4 | Engine atau Penggerak                                                    |
|    |                | Sistem Transmisi, Kopling, dan/atau Diferensial                          |
|    |                | Chassis (Frame Utama) dan/atau Suspensi                                  |
|    |                | Body & Panel (Hood, Fender, Dashboard, Tangki Bahan Bakar, dan/atau Jok) |
|    |                | Tire and Wheel Assy (Front dan Rear)                                     |
|    |                | Pemberat                                                                 |
|    |                | Implement (Rotary, Rotto Paddler, Plow, dan/atau Rake)                   |
|    |                | Sistem Elektrik                                                          |
|    |                | Sistem Hidrolik                                                          |
|    |                | Drawbar                                                                  |

|   |                               |                                                                                                                                        |
|---|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Traktor Roda 2                | Engine atau Penggerak                                                                                                                  |
|   |                               | Sistem Transmisi dan Kopling (Rumah Transmisi, Input/Output Shaft, PTO, Axle Shaft, Gearbox, Differential, dan/atau Final Drive Gears) |
|   |                               | Wheel Assy (Cage Wheel)                                                                                                                |
|   |                               | Handle dan Control (Steering Column dan Control System)                                                                                |
|   |                               | Frame                                                                                                                                  |
|   |                               | Implement (Rotary, Rotto Paddler, Plow, dan/atau Rake)                                                                                 |
|   |                               | Wheel Assy (Rubber Wheel)                                                                                                              |
| 3 | Combine Harvester             | Engine atau Penggerak                                                                                                                  |
|   |                               | Chassis                                                                                                                                |
|   |                               | Transmission dan/atau Drive                                                                                                            |
|   |                               | Auger (Cutting dan/atau Feeding Unit)                                                                                                  |
|   |                               | Threshing Unit dan/atau Cleaning Unit                                                                                                  |
|   |                               | Body dan Panel (Hood, Fender, Dashboard, Tangki Bahan Bakar, dan/atau Jok)                                                             |
|   |                               | Hydraulic System dan Perangkat Kontrol                                                                                                 |
| 4 | Sprayer Gendong Semi-Otomatis | Grain Tank dan/atau Unloading Auger                                                                                                    |
|   |                               | Tangki dan/atau Kaki Rangka                                                                                                            |
|   |                               | Pompa (Piston, Vacum Tank, dan/atau Collar)                                                                                            |
|   |                               | Spray Tube atau Pipa Penyemprot                                                                                                        |
|   |                               | Hand Lever atau Tuas Pengungkit                                                                                                        |
|   |                               | Shoulder Belt                                                                                                                          |
|   |                               | Selang                                                                                                                                 |
| 5 | Sprayer Gendong Elektrik      | Katup Buka Tutup                                                                                                                       |
|   |                               | Nozzle                                                                                                                                 |
|   |                               | Tangki dan/atau Kaki Rangka                                                                                                            |
|   |                               | Pompa Elektrik                                                                                                                         |
|   |                               | Spray Tube atau Pipa Penyemprot                                                                                                        |
|   |                               | Baterai                                                                                                                                |
|   |                               | Shoulder Belt                                                                                                                          |
| 6 | Dryer (Pertanian)             | Selang                                                                                                                                 |
|   |                               | Katup Buka Tutup                                                                                                                       |
|   |                               | Nozzle                                                                                                                                 |
|   |                               | Charging Unit dan Electrical System Non-Baterai                                                                                        |
|   |                               | Ruang Pengering                                                                                                                        |
|   |                               | Burner, Heater, atau Komponen Pengering                                                                                                |
|   |                               | Blower atau Komponen Sirkulasi                                                                                                         |
|   |                               | Komponen Pengontrol Suhu                                                                                                               |
|   |                               | Motor Penggerak                                                                                                                        |
|   |                               | Transmisi                                                                                                                              |

|    |                                    |                                                         |
|----|------------------------------------|---------------------------------------------------------|
|    |                                    | Pengayak, Perata, dan/atau Pengeringan                  |
| 7  | Rice Milling Unit (RMU) Multifase  | Hopper dan/atau Feeder Unit                             |
|    |                                    | Komponen Penggiling (Husker)                            |
|    |                                    | Rangka, Drum, Vessel, Tangki, dan/atau Wadah Muatan     |
|    |                                    | Screen, Panel Kontrol, dan/atau Pengontrol              |
|    |                                    | Motor penggerak                                         |
|    |                                    | Transmisi                                               |
|    |                                    | Polisher Unit                                           |
|    |                                    | Rice Grader Unit                                        |
| 8  | Alat Pemipil Jagung                | Hopper, Feeder, dan/atau Saluran                        |
|    |                                    | Silinder Perontok atau Drum Spike                       |
|    |                                    | Separator atau Penyaring                                |
|    |                                    | Blower                                                  |
|    |                                    | Motor Penggerak                                         |
|    |                                    | Transmisi                                               |
|    |                                    | Rangka Mesin                                            |
|    |                                    | Outlet / Corong Keluar                                  |
| 9  | Mesin Pengupas Kopi                | Hopper dan Feeder                                       |
|    |                                    | Silinder Pengupas atau Drum                             |
|    |                                    | Rangka atau Body                                        |
|    |                                    | Separator atau Penyaring                                |
|    |                                    | Motor Penggerak                                         |
|    |                                    | Transmisi                                               |
| 10 | Mesin Sangrai Kopi                 | Drum atau Wadah Pemanggang                              |
|    |                                    | Burner atau Elemen Pemanas                              |
|    |                                    | Blower Pendingin, Cooling Tray, atau Sirkulasi Udara    |
|    |                                    | Control Panel atau Timer                                |
|    |                                    | Motor Penggerak                                         |
|    |                                    | Transmisi                                               |
|    |                                    | Body Rangka                                             |
|    |                                    | Pengumpan dan Pengeluaran                               |
| 11 | Mesin Pemotong Rumput Tipe Gendong | Engine atau Penggerak                                   |
|    |                                    | Poros Transmisi dan Selubung Poros Kaku                 |
|    |                                    | Pisau Potong                                            |
|    |                                    | Pelindung Pisau Potong                                  |
|    |                                    | Rangka                                                  |
|    |                                    | Front Handle                                            |
|    |                                    | Rear Handle                                             |
|    |                                    | Sabuk Gendong                                           |
| 12 | Mini Tiller                        | Engine atau Penggerak                                   |
|    |                                    | Sistem Transmisi dan Kopling                            |
|    |                                    | Handle dan Control (Steering Column dan Control System) |
|    |                                    | Frame                                                   |
|    |                                    | Cage Wheel dan Poros                                    |
|    |                                    | Poros Rotari (Poros dan Pisau Rotari)                   |

|    |                                                 |                                                                            |
|----|-------------------------------------------------|----------------------------------------------------------------------------|
| 13 | Traktor Roda Crawler                            | Engine atau Penggerak                                                      |
|    |                                                 | Chassis (Frame Utama) dan/atau Suspensi                                    |
|    |                                                 | Sistem Transmisi, Kopling, dan/atau Diferensial                            |
|    |                                                 | Sistem Hidrolik                                                            |
|    |                                                 | Sistem Elektrik                                                            |
|    |                                                 | Body dan Panel (Hood, Fender, Dashboard, Tangki Bahan Bakar, dan/atau Jok) |
|    |                                                 | Undercarriage Assy (Roda Crawler dan Crawler Belt)                         |
|    |                                                 | Implement (Rotary, Rotto Paddler, Plow, dan/atau Rake)                     |
|    |                                                 | Drawbar atau PTO Assy                                                      |
|    |                                                 | Pemberat                                                                   |
| 14 | Alat Aplikator Pupuk                            | Corong Hopper                                                              |
|    |                                                 | Frame Lengan Penyebar Pupuk                                                |
|    |                                                 | Frame Utama                                                                |
|    |                                                 | Hopper Pupuk                                                               |
|    |                                                 | Pengamanan Rantai                                                          |
|    |                                                 | Sistem Hydraulic                                                           |
|    |                                                 | Stand / Penyangga                                                          |
| 15 | Alat Penanam Tebu / Sugarcane Planter           | Bracket Disc / Frame Lengan Piringan                                       |
|    |                                                 | Frame Joint (Pengaturan Join ke Traktor)                                   |
|    |                                                 | Frame Keranjang Bibit                                                      |
|    |                                                 | Frame Utama                                                                |
|    |                                                 | Hopper Pupuk                                                               |
|    |                                                 | Roda Besi                                                                  |
| 16 | Alat Pencacah Pupuk Organik (APPO) / Mesin APPO | Bagian Pengeluaran / Outlet                                                |
|    |                                                 | Hopper / Bagian Pengumpan                                                  |
|    |                                                 | Motor Penggerak                                                            |
|    |                                                 | Pengaman / Pelindung / Penutup                                             |
|    |                                                 | Pisau Penghancur                                                           |
|    |                                                 | Rangka / Frame                                                             |
|    |                                                 | Ruang Penghancur                                                           |
|    |                                                 | Silinder Penghancur                                                        |
|    |                                                 | Transmisi                                                                  |
| 17 | Alat Pengering Tenaga Surya Aktif Langsung      | Kipas                                                                      |
|    |                                                 | Material Covering                                                          |
|    |                                                 | Meja Pengering dan Tray                                                    |
|    |                                                 | Rangka                                                                     |
|    |                                                 | Ventilasi Udara                                                            |
| 18 | Bajak Piringan / Cakram / Disc Plough           | Bracket Leg Belakang                                                       |
|    |                                                 | Bracket Leg Depan                                                          |
|    |                                                 | Bracket Roda Center                                                        |
|    |                                                 | Frame Utama                                                                |
|    |                                                 | Piringan                                                                   |
|    |                                                 | Scraper / Pembuang Tanah                                                   |

|    |                                                                        |                                                                     |
|----|------------------------------------------------------------------------|---------------------------------------------------------------------|
|    |                                                                        | Standing Support                                                    |
| 19 | Bajak Singkal / Pembuat Alur / Furrow / Rigger                         | Bracket Leg                                                         |
|    |                                                                        | Frame                                                               |
|    |                                                                        | Leg Furrow                                                          |
|    |                                                                        |                                                                     |
| 20 | Garu Piringan/ Cakram / Disc Harrow                                    | Bracket Disc Plain & Cutway                                         |
|    |                                                                        | Frame Utama                                                         |
|    |                                                                        | Housing Bearing                                                     |
|    |                                                                        | Piringan Biasa                                                      |
|    |                                                                        | Scraper                                                             |
| 21 | Gerobak Hidrolik Pertanian / Tipping Trailer / Trailer untuk Pertanian | Bak                                                                 |
|    |                                                                        | Chassis                                                             |
|    |                                                                        | Frame Utama                                                         |
|    |                                                                        | Sistem Hidrolik                                                     |
|    |                                                                        | Velg dan Ban                                                        |
| 22 | Implement Rotary Transmission Housing Cultivator                       | Body / Frame                                                        |
|    |                                                                        | Cover Front                                                         |
|    |                                                                        | Rotary Blade                                                        |
|    |                                                                        | Shaft Blade / Support Pisau                                         |
|    |                                                                        | Transmisi                                                           |
| 23 | Implement Rotavator Traktor Pertanian Roda Empat                       | Blades / Pisau                                                      |
|    |                                                                        | Cover Body                                                          |
|    |                                                                        | Frame Samping / Dinding Samping                                     |
|    |                                                                        | Gear Box dan Main Shaft                                             |
|    |                                                                        | Rotor Shaft                                                         |
|    |                                                                        | Skid Shoe / Penahan / Pengaman                                      |
|    |                                                                        | Three Point Linkage                                                 |
|    |                                                                        | Transmisi                                                           |
| 24 | Mesin Angkut untuk Hasil Perkebunan dan Pertanian                      | Bagian / Bak Pengangkut                                             |
|    |                                                                        | Frame / Chasis                                                      |
|    |                                                                        | Kanopi / Kabin                                                      |
|    |                                                                        | Kemudi / Peralatan Kendali                                          |
|    |                                                                        | Kursi Operator                                                      |
|    |                                                                        | Mesin Penggerak                                                     |
|    |                                                                        | Roda Ban / Crawler                                                  |
|    |                                                                        | Transmisi                                                           |
| 25 | Mesin Cultivator / Mini Tiller                                         | Engine atau Penggerak                                               |
|    |                                                                        | Gagang dan Handle                                                   |
|    |                                                                        | Gearbox / Transmisi                                                 |
|    |                                                                        | Implement (Ridger, Singkal, Pisau Rotary, Tines atau Pisau / Blade) |
|    |                                                                        | Pengaman / Pelindung / Penutup                                      |
|    |                                                                        | Poros (Shaft)                                                       |
|    |                                                                        | Rangka / Frame                                                      |
|    |                                                                        | Roda / Wheel                                                        |
|    |                                                                        | Sistem Kopling / Belt                                               |
|    |                                                                        |                                                                     |
| 26 | Mesin Gilingan Kopi / Coffee Grinder (Tipe Industri)                   | Burr (Mata Giling)                                                  |
|    |                                                                        | Engine atau Penggerak                                               |
|    |                                                                        | Hopper                                                              |
|    |                                                                        | Rangka                                                              |
|    |                                                                        | Transmisi                                                           |

|    |                                                   |                                                                                           |
|----|---------------------------------------------------|-------------------------------------------------------------------------------------------|
| 27 | Mesin Pemipil Jagung Mobile                       | Blower                                                                                    |
|    |                                                   | Hopper, Feeder, dan/atau Saluran                                                          |
|    |                                                   | Motor penggerak                                                                           |
|    |                                                   | Outlet / Corong Keluar                                                                    |
|    |                                                   | Rangka / Frame                                                                            |
|    |                                                   | Roda                                                                                      |
|    |                                                   | Separator atau Penyaring                                                                  |
|    |                                                   | Silinder Perontok atau Drum Spike                                                         |
|    |                                                   | Transmisi                                                                                 |
|    |                                                   | Transmisi roda                                                                            |
| 28 | Mesin Pemisah dengan Sortasi Warna / Color Sorter | Body                                                                                      |
|    |                                                   | Chute                                                                                     |
|    |                                                   | Electrical Control System                                                                 |
|    |                                                   | Feeder                                                                                    |
|    |                                                   | Frame                                                                                     |
|    |                                                   | Hopper                                                                                    |
|    |                                                   | Pneumatic System (Kompresor, Filter, Ejector, Tangki Udara, Selang Udara, dan/atau Valve) |
|    |                                                   | Sensor System                                                                             |
| 29 | Mesin Pemotong Rumput Elektrik Tipe Gendong       | Vibrator                                                                                  |
|    |                                                   | Baterai                                                                                   |
|    |                                                   | Engine atau Penggerak                                                                     |
|    |                                                   | Front Handle                                                                              |
|    |                                                   | Pelindung Pisau Potong                                                                    |
|    |                                                   | Pisau Potong                                                                              |
|    |                                                   | Poros Transmisi dan Selubung Poros Kaku                                                   |
|    |                                                   | Rangka                                                                                    |
|    |                                                   | Rear Handle                                                                               |
|    |                                                   | Sabuk Gendong                                                                             |
| 30 | Mesin Pencacah Hijauan Pakan Ternak               | Dinding Lubang Keluaran                                                                   |
|    |                                                   | Dudukan Motor Penggerak                                                                   |
|    |                                                   | Meja Pengumpan                                                                            |
|    |                                                   | Penguat Meja Pengumpan, Meja Pengumpan                                                    |
|    |                                                   | Rangka Utama                                                                              |
|    |                                                   | Ruang Pencacah                                                                            |
| 31 | Mesin Pengupas Gabah Rol Karet (Husker)           | Blower                                                                                    |
|    |                                                   | Engine atau Penggerak                                                                     |
|    |                                                   | Hopper & Feeder / Corong Pemasukan Bahan                                                  |
|    |                                                   | Outlet Hasil                                                                              |
|    |                                                   | Outlet Kulit                                                                              |
|    |                                                   | Pengaman / Pelindung / Penutup                                                            |
|    |                                                   | Rangka / Frame                                                                            |
|    |                                                   | Rubber Roll                                                                               |
|    |                                                   | Sistem Chute                                                                              |
|    |                                                   | Tabung / Ruang Pengupas                                                                   |
| 32 | Mesin Perontok Multikomoditi                      | Transmisi                                                                                 |
|    |                                                   | Bagian Pengeluaran Hasil                                                                  |
|    |                                                   | Bagian Pengeluaran Limbah                                                                 |

|    |                                                   |                                |
|----|---------------------------------------------------|--------------------------------|
|    | Mobile                                            | Blower / Kipas Penghembus      |
|    |                                                   | Gigi Perontok                  |
|    |                                                   | Hopper / Bagian Pengumpan      |
|    |                                                   | Motor Penggerak                |
|    |                                                   | Pengaman / Pelindung / Penutup |
|    |                                                   | Rangka / Frame                 |
|    |                                                   | Saringan                       |
|    |                                                   | Silinder Perontok              |
|    |                                                   | Transmisi                      |
| 33 | Mesin Perontok Multikomoditi Statis               | Bagian Pengeluaran Hasil       |
|    |                                                   | Bagian Pengeluaran Limbah      |
|    |                                                   | Blower / Kipas Penghembus      |
|    |                                                   | Gigi Perontok                  |
|    |                                                   | Hopper / Bagian Pengumpan      |
|    |                                                   | Motor Penggerak                |
|    |                                                   | Pengaman / Pelindung / Penutup |
|    |                                                   | Rangka / Frame                 |
|    |                                                   | Saringan                       |
|    |                                                   | Silinder Perontok              |
|    |                                                   | Transmisi Mesin Proses         |
| 34 | Mesin Perontok Padi Tipe Pelemparan Jerami Mobile | Bagian Pengeluaran Hasil       |
|    |                                                   | Bagian Pengeluaran Limbah      |
|    |                                                   | Blower / Kipas Penghembus      |
|    |                                                   | Gigi Perontok                  |
|    |                                                   | Hopper / Bagian Pengumpan      |
|    |                                                   | Motor Penggerak                |
|    |                                                   | Pengaman / Pelindung / Penutup |
|    |                                                   | Rangka / Frame                 |
|    |                                                   | Roda                           |
|    |                                                   | Saringan                       |
|    |                                                   | Silinder Perontok              |
|    |                                                   | Transmisi                      |
|    |                                                   | Transmisi Roda                 |
| 35 | Mesin Perontok Padi Tipe Pelemparan Jerami Statis | Bagian Pengeluaran Hasil       |
|    |                                                   | Bagian Pengeluaran Limbah      |
|    |                                                   | Blower / Kipas Penghembus      |
|    |                                                   | Gigi Perontok                  |
|    |                                                   | Hopper / Bagian Pengumpan      |
|    |                                                   | Motor Penggerak                |
|    |                                                   | Saringan                       |
|    |                                                   | Silinder Perontok              |
|    |                                                   | Transmisi Mesin Proses         |
| 36 | Mesin Press dan Parutan Kombinasi                 | Engine atau Penggerak          |
|    |                                                   | Hopper / Corong Input          |
|    |                                                   | Pengaman / Pelindung / Penutup |
|    |                                                   | Rangka / Frame                 |
|    |                                                   | Rol Pamarut                    |
|    |                                                   | Saluran Pengeluaran            |
|    |                                                   | Saringan                       |
|    |                                                   | Sistem Kontrol                 |

|    |                                                    |                                                |
|----|----------------------------------------------------|------------------------------------------------|
|    |                                                    | Sistem Press (Plat Tekan, Silinder, atau Ulir) |
|    |                                                    | Transmisi                                      |
| 37 | Mesin Sortasi / Ayakan Multikomoditi               | Hopper / Bagian Pengumpan                      |
|    |                                                    | Motor Penggerak                                |
|    |                                                    | Pengaman / Pelindung / Penutup                 |
|    |                                                    | Perangkat Kontrol Manual / Elektrik            |
|    |                                                    | Rangka / Frame                                 |
|    |                                                    | Saluran Keluaran                               |
|    |                                                    | Saringan                                       |
|    |                                                    | Sistem Getar                                   |
|    |                                                    | Sistem Pengumpan                               |
|    |                                                    | Transmisi                                      |
| 38 | Mesin Tanam Bibit Padi Tipe Tarik                  | Mesin Penggerak                                |
|    |                                                    | Perangkat Mekanisme Penanaman                  |
|    |                                                    | Rangka / Frame                                 |
|    |                                                    | Roda                                           |
|    |                                                    | Sistem Kontrol                                 |
|    |                                                    | Sistem Pelampung                               |
|    |                                                    | Transmisi                                      |
| 39 | Pengabut Gendong Bermotor / Mist Blower            | Engine atau Penggerak                          |
|    |                                                    | Nozzle                                         |
|    |                                                    | Pipa Fleksibel                                 |
|    |                                                    | Pipa Penghembus                                |
|    |                                                    | Rangka Dudukan                                 |
|    |                                                    | Tangki                                         |
|    |                                                    | Tangki Bahan Bakar                             |
| 40 | Pompa Irigasi Untuk Kegunaan Umum                  | Case Volute atau Rumah Keong                   |
|    |                                                    | Engine atau Penggerak                          |
|    |                                                    | Frame atau Dudukan                             |
|    |                                                    | Impeller                                       |
| 41 | Rice Grader / Rice Shifter                         | Hopper / Sistem Pengumpan                      |
|    |                                                    | Motor Penggerak                                |
|    |                                                    | Pengaman / Pelindung / Penutup                 |
|    |                                                    | Rangka / Frame                                 |
|    |                                                    | Saluran Keluaran                               |
|    |                                                    | Saringan                                       |
|    |                                                    | Sistem Getar                                   |
|    |                                                    | Sistem Kontrol                                 |
|    |                                                    | Transmisi                                      |
| 42 | Rice Polisher / Mesin Poles Beras / Mesin Penyosoh | Bagian Pengeluaran / Penyimpanan Hasil         |
|    |                                                    | Bagian Pengeluaran / Penyimpanan Limbah        |
|    |                                                    | Hopper / Bagian Pengumpan                      |
|    |                                                    | Kipas / Blower                                 |
|    |                                                    | Motor Penggerak                                |
|    |                                                    | Pisau Poles / Roller Penyosoh                  |
|    |                                                    | Rangka / Frame                                 |
|    |                                                    | Ruangan Penyosoh                               |
|    |                                                    | Saringan                                       |

|    |                                   |                                   |
|----|-----------------------------------|-----------------------------------|
|    |                                   | Sistem Kontrol                    |
|    |                                   | Transmisi                         |
| 43 | Rice Transplanter                 | Engine atau Penggerak             |
|    |                                   | Garpu / Jari Penanam              |
|    |                                   | Lengan Tanam                      |
|    |                                   | Pelampung                         |
|    |                                   | Pemberi Bibit                     |
|    |                                   | Pengumpan bibit                   |
|    |                                   | Roda                              |
|    |                                   | Seedling Tray                     |
|    |                                   | Sistem Kendali / Sistem Mobilitas |
|    |                                   | Transmisi                         |
| 44 | Separator / Mesin Pemisah Gabah   | Body                              |
|    |                                   | Flywheel dan Dudukan              |
|    |                                   | Hopper                            |
|    |                                   | Motor Penggerak                   |
|    |                                   | Rangka / Frame                    |
|    |                                   | Transmisi                         |
|    |                                   | Unit Pemisah                      |
| 45 | Sprayer Gendong Bermotor          | Engine atau Penggerak             |
|    |                                   | Katup Buka Tutup                  |
|    |                                   | Nozzle                            |
|    |                                   | Penutup Tangki                    |
|    |                                   | Pipa Semprot                      |
|    |                                   | Pompa                             |
|    |                                   | Selang Semprot                    |
|    |                                   | Tangki                            |
|    |                                   | Tangki Bahan Bakar                |
| 46 | Sprayer Kompresi Tipe Gendong     | Batang Pompa                      |
|    |                                   | Diafragma / Piston / Plunger      |
|    |                                   | Katup Buang Tekanan               |
|    |                                   | Katup Buka-Tutup                  |
|    |                                   | Nozzle                            |
|    |                                   | Pegangan Pompa                    |
|    |                                   | Pengukur Tekanan                  |
|    |                                   | Pipa Semprot                      |
|    |                                   | Selang Semprot                    |
|    |                                   | Tabung Pompa                      |
|    |                                   | Tali Gendong                      |
|    |                                   | Tangki                            |
| 47 | Sprayer Tipe Pompa Torak Bermotor | Batang Torak                      |
|    |                                   | Case Delivery                     |
|    |                                   | Engine atau Penggerak             |
|    |                                   | Katup Tekan dan Katup Hisap       |
|    |                                   | Pengukur Tekanan                  |
|    |                                   | Puli                              |
|    |                                   | Rumah Engkol                      |
|    |                                   | Selang                            |
|    |                                   | Silinder                          |
|    |                                   | Suction Part                      |
|    |                                   | Tabung Udara                      |
|    |                                   | Torak                             |

**24. 28221 – Industri Mesin dan Perkakas Mesin Untuk Pengerjaan Logam**

| No | Jenis Barang              | Uraian Komponen Utama                                                  |
|----|---------------------------|------------------------------------------------------------------------|
| 1  | Mesin Frais (Milling) CNC | CNC Controller                                                         |
|    |                           | Motor Spindle                                                          |
|    |                           | Motor Servo                                                            |
|    |                           | Driver                                                                 |
|    |                           | Ballscrew                                                              |
|    |                           | Linear Guide                                                           |
|    |                           | Work Table                                                             |
|    |                           | Base                                                                   |
|    |                           | Column                                                                 |
|    |                           | Frame (Telescopic dan Cover)                                           |
|    |                           | Coolant System                                                         |
|    |                           | Tool Changer Set                                                       |
| 2  | Mesin Bubut (Lathe) CNC   | CNC Controller                                                         |
|    |                           | Body atau Rangka                                                       |
|    |                           | Saddle                                                                 |
|    |                           | Sistem Pemutar Benda Kerja (Headstock, Spindle, dan Chuck)             |
|    |                           | Sistem Gerak dan Pahat (Carriage, Cross Slide, dan/atau Tool Turret)   |
|    |                           | Sistem Penggerak Presisi (Ball Screw, Servo Motor, dan/atau Guideways) |
|    |                           | Sistem Pendingin dan Pelumas (Coolant System)                          |
|    |                           | Guarding                                                               |
|    |                           | Telescopic                                                             |
|    |                           | Cover                                                                  |
| 3  | Mesin CNC Plasma          | Adjuster / Kaki Mesin                                                  |
|    |                           | Frame dan Cover                                                        |
|    |                           | Meja Cutting                                                           |
|    |                           | Plasma Torch                                                           |
|    |                           | Sistem Kontrol                                                         |
|    |                           | Sistem Penggerak                                                       |

**25. 28240 – Industri Mesin Penambangan, Penggalian dan Konstruksi**

| No | Jenis Barang | Uraian Komponen Utama          |
|----|--------------|--------------------------------|
| 1  | Excavator    | Engine Assy                    |
|    |              | Boom Assy                      |
|    |              | Arm Assy                       |
|    |              | Bucket atau Attachment Sejenis |
|    |              | Cabin Assy                     |
|    |              | Transmisi dan Final Drive      |
|    |              | Undercarriage                  |
|    |              | Center Frame / Main Frame      |
|    |              | Control Valve                  |

|   |             |                                                          |
|---|-------------|----------------------------------------------------------|
|   |             | Pump / Pump Device / Main Pump                           |
|   |             | Swing Device / Joint / Machinery / Hydraulic Swing Motor |
|   |             | Travel Device / Travel Line                              |
|   |             | Center Joint                                             |
|   |             | Superstructure / Counterweight / Upperstructure          |
|   |             | Cylinder Assy                                            |
|   |             | Cooling Component / Cooling System                       |
|   |             | Fuel Tank Assy                                           |
|   |             | Electrical System                                        |
|   |             |                                                          |
| 2 | Motorgrader | Engine Assy                                              |
|   |             | Cooling                                                  |
|   |             | Fuel Tank                                                |
|   |             | Electrical                                               |
|   |             | Powertrain                                               |
|   |             | Control Valve                                            |
|   |             | Hydraulic System                                         |
|   |             | Main Frame                                               |
|   |             | Cabin                                                    |
|   |             | Superstructure                                           |
|   |             | Suspension & Wheels                                      |
|   |             | Work Equipment                                           |
|   |             |                                                          |
| 3 | Bulldozer   | Engine Assy                                              |
|   |             | Cooling                                                  |
|   |             | Fuel Tank                                                |
|   |             | Electrical System                                        |
|   |             | Powerline                                                |
|   |             | Final Drive                                              |
|   |             | Powertrain Related                                       |
|   |             | Control Valve                                            |
|   |             | Hydraulic System                                         |
|   |             | Main Frame                                               |
|   |             | Cabin                                                    |
|   |             | Superstructure                                           |
|   |             | Undercarriage                                            |
|   |             | Work Equipment                                           |
| 4 | Dump Truck  | Engine Assy                                              |
|   |             | Cooling                                                  |
|   |             | Fuel Tank                                                |
|   |             | Electrical System                                        |
|   |             | Powertrain Related                                       |
|   |             | Torque Flow                                              |

|   |                         |                           |
|---|-------------------------|---------------------------|
|   |                         | Rear Axle                 |
|   |                         | Front Axle                |
|   |                         | Hydraulic System          |
|   |                         | Main Frame                |
|   |                         | Cabin                     |
|   |                         | Superstructure            |
|   |                         | Wheels                    |
|   |                         | Suspension                |
|   |                         | Work Equipment            |
|   |                         | Vessel                    |
| 5 | Vibrating Roller        | Canopy                    |
|   |                         | Control System            |
|   |                         | Cooling System            |
|   |                         | Dashboard                 |
|   |                         | Electrical Equipment      |
|   |                         | Engine System             |
|   |                         | Frame                     |
|   |                         | Fuel System               |
|   |                         | Hydraulic System          |
|   |                         | Steering Hydraulic System |
|   |                         | Vibrating Roll            |
|   |                         | Wiring Harness            |
| 6 | Tire Roller             | Brake System              |
|   |                         | Canopy                    |
|   |                         | Control System            |
|   |                         | Cooling System            |
|   |                         | Electrical Equipment      |
|   |                         | Engine System             |
|   |                         | Frame                     |
|   |                         | Fuel System               |
|   |                         | Steering Hydraulic System |
|   |                         | Wiring Harness            |
|   |                         | Lubrication System        |
|   |                         | Power Drive System        |
| 7 | Vessel                  | Sprinkler System          |
|   |                         | Bottom / Floor            |
|   |                         | Side Wall                 |
|   |                         | Front Wall                |
|   |                         | Canopy                    |
|   |                         | Muffler                   |
| 8 | Undercarriage Excavator | Tyre Guard                |
|   |                         | Track Link Assy           |
|   |                         | Track Roller Assy         |
|   |                         | Idler Assy                |
|   |                         | Sprocket / Teeth          |
|   |                         | Carrier Roller Assy       |

|    |                         |                           |
|----|-------------------------|---------------------------|
| 9  | Undercarriage Bulldozer | Track Shoe Assy           |
|    |                         | Track Link Assy           |
|    |                         | Track Roller Assy         |
|    |                         | Idler Assy                |
|    |                         | Sprocket / Teeth          |
|    |                         | Carrier Roller Assy       |
| 10 | Rammer                  | Frame                     |
|    |                         | Engine                    |
|    |                         | Cylinder Assy             |
|    |                         | Shoe Assy                 |
|    |                         | Tank Assy                 |
|    |                         | Lever                     |
|    |                         | Carrier                   |
| 11 | Plate Compactor         | Frame                     |
|    |                         | Engine                    |
|    |                         | Vibrator Assy             |
|    |                         | Sprinkler System          |
|    |                         | Carrier                   |
| 12 | Road Soil Stabilizer    | Engine Assy               |
|    |                         | Fuel System               |
|    |                         | Cooling System            |
|    |                         | Exhaust System            |
|    |                         | Lubrication System        |
|    |                         | Electrical Equipment      |
|    |                         | Wiring Harness            |
|    |                         | Control System            |
|    |                         | Hydraulic System          |
|    |                         | Steering Hydraulic System |
|    |                         | Brake System              |
|    |                         | Frame                     |
|    |                         | Front Axle                |
|    |                         | Rear Axle                 |
|    |                         | Rotor System              |
|    |                         | Emulsion System           |
|    |                         | Sprinkler System          |
| 13 | Road Cutter / Planner   | Engine Assy               |
|    |                         | Fuel System               |
|    |                         | Cooling System            |
|    |                         | Exhaust System            |
|    |                         | Lubrication System        |
|    |                         | Electrical Equipment      |
|    |                         | Wiring Harness            |
|    |                         | Control System            |
|    |                         | Hydraulic System          |
|    |                         | Steering Hydraulic System |
|    |                         | Brake System              |
|    |                         | Frame                     |
|    |                         | Rear Axle                 |
|    |                         | Cutter System             |
|    |                         | Conveyor Drive System     |
|    |                         | Sprinkler System          |

|    |                                            |                                          |
|----|--------------------------------------------|------------------------------------------|
| 14 | Static Roller                              | Canopy                                   |
|    |                                            | Control System                           |
|    |                                            | Cooling System                           |
|    |                                            | Dashboard                                |
|    |                                            | Electrical Equipment                     |
|    |                                            | Engine Assy                              |
|    |                                            | Frame                                    |
|    |                                            | Fuel System                              |
|    |                                            | Hydraulic System                         |
|    |                                            | Sprinkler System                         |
|    |                                            | Steering Hydraulic System                |
|    |                                            | Roller                                   |
|    |                                            | Wiring Harness                           |
| 15 | Walk Behind Roller                         | Engine Assy                              |
|    |                                            | Control System                           |
|    |                                            | Front Roll                               |
|    |                                            | Rear Roll                                |
|    |                                            | Hydraulic System                         |
|    |                                            | Vibrating System                         |
|    |                                            | Frame                                    |
|    |                                            | Hood                                     |
|    |                                            | Scraper System                           |
|    |                                            | Sprinkler System                         |
|    |                                            | Electrical Equipment                     |
| 16 | Carrier Roller Assy                        | Carrier Roller Shell                     |
|    |                                            | Cover                                    |
|    |                                            | Fastener                                 |
|    |                                            | Holder                                   |
|    |                                            | Plug                                     |
|    |                                            | Ring / O-Ring / Bearing                  |
|    |                                            | Seal Ring                                |
|    |                                            | Shaft                                    |
| 17 | Casing Hanger (Subsea Wellhead Equipment)  | Casing Hanger Body                       |
|    |                                            | Protector                                |
|    |                                            | Pup Joint                                |
| 18 | Casing Hanger (Surface Wellhead Equipment) | Body Forging (Maximum SDemi Finished)    |
|    |                                            | Pack Off                                 |
| 19 | Casing Head                                | Casing Head Body (Maximum Semi Finished) |
| 20 | Casing Spool / Tubing Spool                | Spool Body (Maximum Semi Finished)       |
| 21 | High Pressure Wellhead Housing Joint       | High Pressure Wellhead Body              |
|    |                                            | Pin Body Connector                       |
|    |                                            | Pipa                                     |
|    |                                            | Protector                                |
|    |                                            | Sling                                    |
| 22 | Idler Assy                                 | Bushing Assy                             |
|    |                                            | Fastener                                 |
|    |                                            | Floating Seal                            |
|    |                                            | Guide Assy                               |

|    |                                          |                                                            |
|----|------------------------------------------|------------------------------------------------------------|
|    |                                          | Idler                                                      |
|    |                                          | O-Ring                                                     |
|    |                                          | Plate                                                      |
|    |                                          | Plug                                                       |
|    |                                          | Shaft / Shaft Idler                                        |
|    |                                          | Shim                                                       |
|    |                                          | Support                                                    |
| 23 | Low Pressure Wellhead Housing Joint      | Landing Sub Mudmat Latch Body                              |
|    |                                          | Low Pressure Wellhead Body                                 |
|    |                                          | Pin Body Connector                                         |
|    |                                          | Pipa                                                       |
|    |                                          | Protector                                                  |
|    |                                          | Sling                                                      |
|    |                                          | Tubular Sub Body                                           |
| 24 | Solid Block                              | Body Forging (Maximum Semi Finished)                       |
| 25 | Sprocket / Teeth                         | Steel Roundbar                                             |
| 26 | Subsea Tree                              | Anodes                                                     |
|    |                                          | Clamp System                                               |
|    |                                          | Flow Control Module                                        |
|    |                                          | Hydraulic Tubing                                           |
|    |                                          | Lift Cap                                                   |
|    |                                          | Production Block                                           |
|    |                                          | Sling                                                      |
|    |                                          | Subsea Control Module                                      |
|    |                                          | Subsea Tree Frame                                          |
|    |                                          | Tree Cap                                                   |
|    |                                          | Tree External Panels                                       |
|    |                                          | Tubing Head Spool (khusus untuk Subsea Tree Tipe Vertikal) |
|    |                                          | Valve Block                                                |
|    |                                          | Wellhead Connector                                         |
| 27 | Surface Wellhead Assembly (Compact)      | Casing Hanger                                              |
|    |                                          | Flange                                                     |
|    |                                          | Gate Valve                                                 |
|    |                                          | Wellhead Compact                                           |
| 28 | Surface Wellhead Assembly (Konvensional) | Casing Hanger                                              |
|    |                                          | Casing Head                                                |
|    |                                          | Casing Spool                                               |
|    |                                          | Flange                                                     |
|    |                                          | Gate Valve                                                 |
|    |                                          | Tubing Head                                                |
| 29 | Surface X-Mass Tree (Compact)            | Flange                                                     |
|    |                                          | Gate Valve                                                 |
|    |                                          | Solid Block                                                |
|    |                                          | Tree Cap Adapter                                           |
|    |                                          | Tubing Hanger                                              |
|    |                                          | Tubing Head Adapter                                        |
| 30 | Surface X-Mass Tree (Konvensional)       | Block (Cross / Tee)                                        |
|    |                                          | Flange                                                     |
|    |                                          | Gate Valve                                                 |

|    |                            |                                      |
|----|----------------------------|--------------------------------------|
|    |                            | Tree Cap Adapter                     |
|    |                            | Tubing Hanger                        |
|    |                            | Tubing Head Adapter                  |
| 31 | Track Link Assy            | Bushing / Bushing Master             |
|    |                            | Fastener                             |
|    |                            | Key / Stopper / Pengunci             |
|    |                            | Link / Link Master                   |
|    |                            | Pin / Pin Master / Pin Dowel         |
|    |                            | Plug                                 |
|    |                            | Ring / Bearing                       |
|    |                            | Seal / Seal Master                   |
| 32 | Track Roller Assy          | Bushing                              |
|    |                            | Collar                               |
|    |                            | Fastener                             |
|    |                            | Floating Seal                        |
|    |                            | O-Ring                               |
|    |                            | Pin                                  |
|    |                            | Plate                                |
|    |                            | Plug                                 |
|    |                            | Retainer                             |
|    |                            | Roller Shell                         |
|    |                            | Shaft                                |
| 33 | Track Shoe Assy            | Bushing / Bushing Master             |
|    |                            | Fastener                             |
|    |                            | Key / Stopper / Pengunci             |
|    |                            | Link / Link Master                   |
|    |                            | Pin / Pin Master / Pin Dowel         |
|    |                            | Plug                                 |
|    |                            | Ring / Bearing                       |
|    |                            | Seal / Seal Master                   |
|    |                            | Shoe                                 |
| 34 | Tree Cap Adapter           | Body Forging (Maximum Semi Finished) |
| 35 | Tubing Hanger              | Body Forging (Maximum Semi Finished) |
| 36 | Tubing Head Adapter        | Body Forging (Maximum Semi Finished) |
| 37 | Tubular Drive Jet Joint    | Box Body Connector                   |
|    |                            | Pipa                                 |
|    |                            | Protector                            |
|    |                            | Sling                                |
| 38 | Tubular Float Shoe Joint   | Box Body Connector / Body Forging    |
|    |                            | Float Shoe                           |
|    |                            | Pipa                                 |
|    |                            | Protector                            |
|    |                            | Sling                                |
| 39 | Tubular Intermediate Joint | Box Body Connector                   |
|    |                            | Pin Body Connector                   |
|    |                            | Pipa                                 |
|    |                            | Protector                            |
|    |                            | Sling                                |

|    |                       |                                      |
|----|-----------------------|--------------------------------------|
| 40 | Tubular Landing Joint | Box Body Connector                   |
|    |                       | Landing Sub Body                     |
|    |                       | Pin Body Connector                   |
|    |                       | Pipa                                 |
|    |                       | Protector                            |
|    |                       | Sling                                |
| 41 | Wellhead Compact      | Body Forging (Maximum Semi Finished) |
|    |                       | Flange                               |
|    |                       | Gate Valve                           |

**26. 28250 – Industri Mesin Pengolahan Makanan, Minuman Dan Tembakau**

| No | Jenis Barang                 | Uraian Komponen Utama                          |
|----|------------------------------|------------------------------------------------|
| 1  | Mesin Pamarut Multikomoditi  | Engine atau Penggerak                          |
|    |                              | Hopper / Corong                                |
|    |                              | Pengaman / Pelindung / Penutup                 |
|    |                              | Rangka / Frame                                 |
|    |                              | Rol Pamarut                                    |
|    |                              | Saluran Keluaran                               |
|    |                              | Transmisi                                      |
| 2  | Mesin Pemas Kelapa Parut     | Engine atau Penggerak                          |
|    |                              | Hopper / Corong Input                          |
|    |                              | Pengaman / Pelindung / Penutup                 |
|    |                              | Rangka / Frame                                 |
|    |                              | Saluran Pengeluaran                            |
|    |                              | Saringan                                       |
|    |                              | Sistem Kontrol                                 |
|    |                              | Sistem Press (Plat Tekan, Silinder, atau Ulir) |
| 3  | Mesin Pengiris Multikomoditi | Sistem Transmisi                               |
|    |                              | Dudukan Pisau / Disk Pisau                     |
|    |                              | Engine atau Penggerak                          |
|    |                              | Gearbox / Transmisi (atau Pulley-Belt)         |
|    |                              | Hopper / Corong Masuk                          |
|    |                              | Housing / Body Mesin                           |
|    |                              | Meja / Dudukan Bahan                           |
|    |                              | Pisau Pengiris (Blade)                         |
|    |                              | Poros (Shaft)                                  |
|    |                              | Rangka / Frame                                 |
| 4  | Mesin Press Sagu             | Saluran Keluar (Output Chute)                  |
|    |                              | Engine atau Penggerak                          |
|    |                              | Hopper / Corong Input                          |
|    |                              | Pengaman / Pelindung / Penutup                 |
|    |                              | Rangka / Frame                                 |
|    |                              | Saluran Pengeluaran                            |
|    |                              | Saringan                                       |
|    |                              | Sistem Kontrol                                 |
|    |                              | Sistem Press (Plat Tekan, Silinder, atau Ulir) |

|  |  |                  |
|--|--|------------------|
|  |  | Sistem Transmisi |
|--|--|------------------|

**27. 28299 – Industri Mesin Keperluan Khusus Lainnya**

| No | Jenis Barang                                                                                       | Uraian Komponen Utama                           |
|----|----------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1  | Automatic Trashrake / Mesin Penyaring Sampah Otomatis                                              | Batang Penggaruk (Rake Bar)                     |
|    |                                                                                                    | Bin / Container Penampung                       |
|    |                                                                                                    | Bracket dan Dudukan                             |
|    |                                                                                                    | Bucket / Carrying Tray                          |
|    |                                                                                                    | Chute / Peluncur                                |
|    |                                                                                                    | Emergency Stop                                  |
|    |                                                                                                    | Gearbox Reduktor                                |
|    |                                                                                                    | Guard / Covers                                  |
|    |                                                                                                    | Human Machine Interface (HMI)                   |
|    |                                                                                                    | Inverter / VSD                                  |
|    |                                                                                                    | Konveyor Rantai / Sabuk                         |
|    |                                                                                                    | Limit Switch                                    |
|    |                                                                                                    | Motor Listrik                                   |
|    |                                                                                                    | Panel Control                                   |
|    |                                                                                                    | Platform dan Tangga Inspeksi                    |
|    |                                                                                                    | Programmable Logic Controller (PLC)             |
|    |                                                                                                    | Rake / Tine                                     |
|    |                                                                                                    | Rangka baja utama (Main Frame)                  |
|    |                                                                                                    | Rantai dan Sprocket                             |
|    |                                                                                                    | Rel Pemandu (Guide Rail) *hanya untuk tipe link |
|    |                                                                                                    | Sensor Level / Posisi / Beban                   |
| 2  | Conveyor Belt Cleaner                                                                              | Shaft / Pully / Coupling                        |
|    |                                                                                                    | Sistem Hidrolik                                 |
|    |                                                                                                    | Thermal Overload Relay                          |
|    |                                                                                                    |                                                 |
| 3  | Curtain Boom / Silt Curtain                                                                        | Blade                                           |
|    |                                                                                                    | Bolt Kit                                        |
|    |                                                                                                    | Mounting Kit                                    |
|    |                                                                                                    | Steel Pole                                      |
|    |                                                                                                    |                                                 |
| 4  | Drum Skimmer                                                                                       | Ballast                                         |
|    |                                                                                                    | Body - Skirt                                    |
|    |                                                                                                    | Connector                                       |
|    |                                                                                                    | Float                                           |
|    |                                                                                                    | Towing Set                                      |
| 5  | Floating Storage Tank                                                                              | Hose                                            |
|    |                                                                                                    | Powerpack                                       |
|    |                                                                                                    | Pump                                            |
|    |                                                                                                    | Skimmer Head                                    |
| 6  | Frame dan Cover untuk Unit Penghasil Air Minum dari Kelembapan Udara (Atmospheric Water Generator) | Body - Skirt                                    |
|    |                                                                                                    | Float                                           |
|    |                                                                                                    | Tension Member                                  |
|    |                                                                                                    | Towing Set                                      |
|    |                                                                                                    | Box Sistem Kontrol Elektrikal dan Filtrasi      |
|    |                                                                                                    | Cover                                           |
|    |                                                                                                    | Frame                                           |
|    |                                                                                                    | Tangki Air                                      |

|    |                                                                                      |                                            |
|----|--------------------------------------------------------------------------------------|--------------------------------------------|
|    |                                                                                      | Tangki Proses Filtrasi Air                 |
| 7  | Glass Crusher / Mesin Pencacah Kaca                                                  | Control Panel                              |
|    |                                                                                      | Hammer                                     |
|    |                                                                                      | Hopper                                     |
|    |                                                                                      | Motor Penggerak                            |
|    |                                                                                      | Rangka Unit                                |
| 8  | Inflatable Oil Boom                                                                  | Air Valve                                  |
|    |                                                                                      | Ballast / Ballast Chain                    |
|    |                                                                                      | Body - Skirt                               |
|    |                                                                                      | Connector                                  |
|    |                                                                                      | Tension Member                             |
|    |                                                                                      | Towing Set                                 |
| 9  | Interchangeable Disc & Brush Skimmer                                                 | Hose                                       |
|    |                                                                                      | Powerpack                                  |
|    |                                                                                      | Pump                                       |
|    |                                                                                      | Skimmer Head                               |
| 10 | Permanent Skimmer                                                                    | Hose                                       |
|    |                                                                                      | Powerpack                                  |
|    |                                                                                      | Pump                                       |
|    |                                                                                      | Skimmer Head                               |
| 11 | Plastic Crusher / Mesin Pencacah Plastik                                             | Control Panel                              |
|    |                                                                                      | Hopper                                     |
|    |                                                                                      | Motor Penggerak                            |
|    |                                                                                      | Rangka Unit                                |
|    |                                                                                      | Stationary / Rotary Cutter                 |
| 12 | Riser and Track                                                                      | Body                                       |
|    |                                                                                      | Float                                      |
| 13 | Solid Floatation Boom                                                                | Ballast                                    |
|    |                                                                                      | Body - Skirt                               |
|    |                                                                                      | Connector                                  |
|    |                                                                                      | Float                                      |
|    |                                                                                      | Tension Member                             |
|    |                                                                                      | Towing Set                                 |
| 14 | Trailer Unit Penghasil Air Minum dari Kelembapan Udara (Atmospheric Water Generator) | Box Sistem Kontrol Elektrikal dan Filtrasi |
|    |                                                                                      | Cover                                      |
|    |                                                                                      | Sasis                                      |
|    |                                                                                      | Tangki air                                 |
|    |                                                                                      | Tangki Proses Filtrasi Air                 |
| 15 | Vacuum Oil Skimmer                                                                   | Hose                                       |
|    |                                                                                      | Powerpack                                  |
|    |                                                                                      | Pump                                       |
|    |                                                                                      | Skimmer Head                               |
| 16 | Weir Skimmer                                                                         | Hose                                       |
|    |                                                                                      | Powerpack                                  |
|    |                                                                                      | Pump                                       |
|    |                                                                                      | Skimmer Head                               |

28. 30921 – Industri Sepeda dan Kursi Roda Termasuk Becak

| No | Jenis Barang        | Uraian Komponen Utama                     |
|----|---------------------|-------------------------------------------|
| 1  | Kursi Roda Elektrik | Drive Motors + Gearboxes                  |
|    |                     | Battery Pack                              |
|    |                     | Frame & Chassis (Reinforced)              |
|    |                     | Motor Controller PCB (Power Electronics)  |
|    |                     | Joystick Controller & Wiring (Reinforced) |
|    |                     | Seat System (Cushion / Adjustable)        |
|    |                     | Wheels                                    |
|    |                     | Suspension Components                     |
|    |                     | Safety Component                          |
| 2  | Kursi Roda Manual   | Frame (Aluminium / Steel Tubing)          |
|    |                     | Rear Wheels & Hubs (Pair)                 |
|    |                     | Front Casters & Hubs (Pair)               |
|    |                     | Seat (Fabric / Foam)                      |
|    |                     | Back Upholstery (Fabric / Foam)           |
|    |                     | Brake Assemblies & Axles                  |
|    |                     | Footrests                                 |
|    |                     | Armrests                                  |
|    |                     | Safety Component                          |

29. 32501 – Industri Furnitur Untuk Operasi, Perawatan Kedokteran dan Kedokteran Gigi

| No | Jenis Barang            | Uraian Komponen Utama                                                                  |
|----|-------------------------|----------------------------------------------------------------------------------------|
| 1  | Electric Hospital Bed   | Frame / Struktur Tempat Tidur                                                          |
|    |                         | Linear Actuators (each Actuator, Motor + Gearbox) atau Mekanisme Penyesuaian Automatic |
|    |                         | Control PCB (Microcontroller, Drivers)                                                 |
|    |                         | Hand Remote                                                                            |
|    |                         | Power Supply (termasuk Baterai Backup jika ada)                                        |
|    |                         | Guard Rails                                                                            |
|    |                         | Roda / Caster                                                                          |
|    |                         | Platform Kasur                                                                         |
|    |                         | Sandaran Kepala                                                                        |
|    |                         | Sandaran Kaki                                                                          |
|    |                         |                                                                                        |
| 2  | Manual Hospital Bed     | Frame / Struktur Tempat Tidur                                                          |
|    |                         | Mekanisme Penyesuaian Manual                                                           |
|    |                         | Guard Rails                                                                            |
|    |                         | Roda / Caster                                                                          |
|    |                         | Platform Kasur                                                                         |
|    |                         | Sandaran Kepala                                                                        |
|    |                         | Sandaran Kaki                                                                          |
| 3  | Troli untuk Rumah Sakit | Frame / Rangka                                                                         |
|    |                         | Roda / Caster                                                                          |

|   |                           |                                                                                                |
|---|---------------------------|------------------------------------------------------------------------------------------------|
|   |                           | Laci dan/atau Tray / Keranjang                                                                 |
|   |                           | Pegangan                                                                                       |
|   |                           | Rel Pengaman                                                                                   |
| 4 | Infusion Stand            | Tiang Pole                                                                                     |
|   |                           | Dasar / Kaki (Base / Legs)                                                                     |
|   |                           | Roda (Casters)                                                                                 |
|   |                           | Pengait (Hooks)                                                                                |
| 5 | Crutch Kaki Tiga          | Adjustment Pin                                                                                 |
|   |                           | Batang Utama                                                                                   |
|   |                           | Foot Rubber                                                                                    |
|   |                           | Kaki Tripod                                                                                    |
|   |                           | Pegangan / Handle / Grip                                                                       |
| 6 | Crutch Ketiak             | Adjustment Pin                                                                                 |
|   |                           | Foot Rubber                                                                                    |
|   |                           | Pegangan / Handle / Grip                                                                       |
|   |                           | Sandaran Ketiak                                                                                |
|   |                           | Tiang Penyangga                                                                                |
| 7 | Dental Chair              | 3-Way Syringe                                                                                  |
|   |                           | Actuator (Motor Listrik / Hidrolik)                                                            |
|   |                           | Armrest & Footrest                                                                             |
|   |                           | Backrest                                                                                       |
|   |                           | Chair Base & Column / Rangka                                                                   |
|   |                           | Control Panel                                                                                  |
|   |                           | Cuspidor (Spittoon)                                                                            |
|   |                           | Dental Operating Light                                                                         |
|   |                           | Foot Control (Pedal)                                                                           |
|   |                           | Handpiece (Air Turbine / Micromotor / Bor Gigi)                                                |
|   |                           | Headrest                                                                                       |
|   |                           | Instrument Tray / Delivery Unit                                                                |
|   |                           | Saliva Ejector / High-Volume Evacuator (HVE)                                                   |
|   |                           | Seat / Kursi                                                                                   |
|   |                           | Ultrasonic Scaler                                                                              |
|   |                           | Water Supply System                                                                            |
| 8 | Meja Periksa (Statis)     | Frame / Struktur Tempat Tidur                                                                  |
|   |                           | Mekanisme Penyesuaian Manual                                                                   |
|   |                           | Platform Kasur                                                                                 |
|   |                           | Sandaran Kepala                                                                                |
| 9 | Modular Operating Theater | Electrical Safety Component (Insulation Transformer, Isolated Panel, IT Socket, Non IT Socket) |
|   |                           | HVAC and Clean Room System                                                                     |
|   |                           | Infection Control Component (Passbox, Pintu Hermetic, Surgical Cabinet, Scrub Station)         |
|   |                           | Medical Gas System                                                                             |
|   |                           | Monitoring Component (Display Viewer, Room Digital Display)                                    |

|    |                                                                                |                                                                                                                        |
|----|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                | Structure dan Enclosure Modular (Flooring, Sandwich Panel, Box Framed Panel, Stainless Steel, dan/atau Tempered Glass) |
|    |                                                                                | Surgical Room Light System                                                                                             |
|    |                                                                                | System Electrical (Kabel Power, Instrumen)                                                                             |
| 10 | Nasal Oxygen Cannula                                                           | Adaptor                                                                                                                |
|    |                                                                                | Adjustor                                                                                                               |
|    |                                                                                | Nassal Prong                                                                                                           |
|    |                                                                                | Selang Oksigen / Tubing                                                                                                |
| 11 | Operating Table                                                                | Catu Daya (Power Supply), termasuk Baterai Cadangan (jika ada)                                                         |
|    |                                                                                | PCB Modul Kontrol                                                                                                      |
|    |                                                                                | Platform Dasar Meja & Kasur                                                                                            |
|    |                                                                                | Roda (Caster)                                                                                                          |
|    |                                                                                | Sandaran (Kepala, Punggung)                                                                                            |
|    |                                                                                | Sistem Kontrol (Hand Remote / Panel)                                                                                   |
|    |                                                                                | Sistem Penggerak / Aktuator (Motor, Hidrolik, Otomatik)                                                                |
|    |                                                                                | Struktur Rangka / Kolom Pedestal                                                                                       |
| 12 | Oxygen Mask                                                                    | Adaptor                                                                                                                |
|    |                                                                                | Adjustor                                                                                                               |
|    |                                                                                | Mask / Cap                                                                                                             |
|    |                                                                                | Selang Oksigen / tubing                                                                                                |
| 13 | Patient Transfer Device/<br>Patient Transfer Bed / Patient<br>Transfer Trolley | Brake System                                                                                                           |
|    |                                                                                | Dudukan Tabung Oksigen / Dudukan Perlengkapan Emergency                                                                |
|    |                                                                                | Guard Rails / Side Rails                                                                                               |
|    |                                                                                | Handle Dorong / Control Lever / Pedal                                                                                  |
|    |                                                                                | Height Adjustment Mechanism (Hydraulic / Electric)                                                                     |
|    |                                                                                | Main Frame / Chassis                                                                                                   |
|    |                                                                                | Mattress / Cushion                                                                                                     |
|    |                                                                                | Platform Kasur / Bed Platform (Deck)                                                                                   |
|    |                                                                                | Roda / Caster Wheels                                                                                                   |
|    |                                                                                | Safety Belt                                                                                                            |
| 14 | Side Rail / Guard Rails /<br>Pagar untuk Tempat Tidur<br>Rumah Sakit           | Engsel                                                                                                                 |
|    |                                                                                | Kunci / Handle Pengaman                                                                                                |
|    |                                                                                | Main Bar / Horizontal Bar                                                                                              |
|    |                                                                                | Supporting Bar / Vertical Bar                                                                                          |
| 15 | Urine Bag Collector                                                            | Hanger Urine Bag                                                                                                       |
|    |                                                                                | Kantong Urin                                                                                                           |
|    |                                                                                | Konektor Inlet                                                                                                         |
|    |                                                                                | Konektor Outlet                                                                                                        |
|    |                                                                                | Selang Inlet                                                                                                           |
|    |                                                                                | Selang Kantor Urin                                                                                                     |
|    |                                                                                | Selang Outlet                                                                                                          |

**30. 32502 – Industri Peralatan Kedokteran dan Kedokteran Gigi, Perlengkapan Orthopaedic dan Prosthetic**

| <b>No</b> | <b>Jenis Barang</b>                                                                 | <b>Uraian Komponen Utama</b>                                                  |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 1         | Alat Suntik / Piston Syringe                                                        | Badan Syringe (Barrel)                                                        |
|           |                                                                                     | Plunger / Piston                                                              |
|           |                                                                                     | Karet / Gasket                                                                |
|           |                                                                                     | Jarum (Needle)                                                                |
|           |                                                                                     | Kemasan Primer Steril                                                         |
|           |                                                                                     | Needle Hub (Adaptor)                                                          |
|           |                                                                                     | Needle Cap (Penutup Jarum)                                                    |
| 2         | Medical Gas Alarm / Medical Gas Area Alarm / Sistem Alarm Gas untuk Kebutuhan Medis | Catu Daya (Power Supply)                                                      |
|           |                                                                                     | Catu Daya Darurat (Backup Power Supply / UPS)                                 |
|           |                                                                                     | Instalasi Pipa & Konektor                                                     |
|           |                                                                                     | Kabel Komunikasi                                                              |
|           |                                                                                     | Modul Kontrol Utama (Main Control Module)                                     |
|           |                                                                                     | Panel Alarm Area (Area Alarm Panel/Unit Display Digital)                      |
|           |                                                                                     | Rumah / Kotak Katup Zona (Zone Valve Box)                                     |
|           |                                                                                     | Sensor Tekanan (Pressure Sensor/Pressure Switch)                              |
| 3         | Medical Gas Wall Outlet                                                             | Blok Sekunder (Adapter /Latching)                                             |
|           |                                                                                     | Blok Utama / Primer (Wall Rough-In / Bedhead)                                 |
|           |                                                                                     | Katup Otomatis (Check Valve)                                                  |
|           |                                                                                     | Penutup (Cover Plate)                                                         |
|           |                                                                                     | Soket & Probe Gas                                                             |
| 4         | Medical Gas Zone Valve                                                              | Katup Aliran Gas (Gas Ball Valve)                                             |
|           |                                                                                     | Manometer (Indikator Tekanan Gas)                                             |
|           |                                                                                     | Penutup Transparan (Pull Window / Cover)                                      |
|           |                                                                                     | Rumah Katup (Valve Box / Housing)                                             |
| 5         | Mesin Reverse Osmosis untuk Keperluan Medis                                         | Catu Daya (Power Supply)                                                      |
|           |                                                                                     | Filter Akhir Karbon (Carbon Post-Filter)                                      |
|           |                                                                                     | Flow Meter (Restrictor)                                                       |
|           |                                                                                     | Membran Reverse Osmosis (Membran Inti Semipermeabel & Lapisan Tipis Komposit) |
|           |                                                                                     | Membran Tabung (Housing): SS / FRP                                            |
|           |                                                                                     | Modul Sistem Kontrol                                                          |
|           |                                                                                     | Pompa Tekanan Tinggi (High Pressure Pump)                                     |

|   |                  |                                                                             |
|---|------------------|-----------------------------------------------------------------------------|
|   |                  | Pre-Filter (Sediment Filter-Spun / PP, Activated Carbon Filter - GAC / CTO) |
| 6 | Pediatric Lancet | Blade                                                                       |
|   |                  | Housing                                                                     |
|   |                  | Medical Wire/ Stainless Steel Wire                                          |
|   |                  | Needle Holder                                                               |
|   |                  | Protective Cap                                                              |
|   |                  | Slider                                                                      |
|   |                  | Spring                                                                      |
|   |                  | Top Cover                                                                   |
| 7 | Safety Lancet    | Housing                                                                     |
|   |                  | Medical Wire / Stainless Steel Wire                                         |
|   |                  | Needle                                                                      |
|   |                  | Needle Holder                                                               |
|   |                  | Protective Cap                                                              |
|   |                  | Slider                                                                      |
|   |                  | Spring                                                                      |
|   |                  | Top Cover                                                                   |
| 8 | Stetoskop        | Binaural                                                                    |
|   |                  | Chestpiece                                                                  |
|   |                  | Earpiece                                                                    |
|   |                  | Tubing / Selang                                                             |

**31. 32509 – Industri Peralatan Kedokteran Dan Kedokteran Gigi Serta Perlengkapan Lainnya**

| No | Jenis Barang | Uraian Komponen Utama |
|----|--------------|-----------------------|
| 1  | Botol Sosa   | Body                  |
|    |              | Cairan Desinfektan    |
|    |              | Connector / Engsel    |
|    |              | Karet Seal            |
|    |              | Kemasan Desinfektan   |
|    |              | Penutup               |

C. SEKTOR INDUSTRI MARITIM, ALAT TRANSPORTASI DAN ALAT PERTAHANAN

**1. 25200 – Industri Senjata dan Amunisi**

| No | Jenis Barang                          | Uraian Komponen Utama                                                |
|----|---------------------------------------|----------------------------------------------------------------------|
| 1  | Munisi Kaliber Kecil (5,56 – 12,7 mm) | Selongsong / Case / Kelongsong                                       |
|    |                                       | Proyektil / Pelor                                                    |
|    |                                       | Primer / Penggalak                                                   |
|    |                                       | Propelan / Black Powder                                              |
| 2  | Bom Latih                             | Nose                                                                 |
|    |                                       | Gantungan Bom / Suslug                                               |
|    |                                       | Badan Bom / Body                                                     |
|    |                                       | Ekor Bom / Fin                                                       |
|    |                                       | Cartridge /Lightning (khusus untuk Bom Latih Asap dan Bom Latih LED) |

|   |                                                     |                                                          |
|---|-----------------------------------------------------|----------------------------------------------------------|
| 3 | Pistol                                              | Laras / Barrel                                           |
|   |                                                     | Rumah Mekanik / Frame                                    |
|   |                                                     | Pemukul / Hammer                                         |
|   |                                                     | Rakitan Magasin / Magazine                               |
|   |                                                     | Tangkai Penegang / Extractor                             |
|   |                                                     | Pena Pemukul / Firing Pin                                |
|   |                                                     | Pengait Longsong / Ejector                               |
|   |                                                     | Penegang / Sear                                          |
|   |                                                     | Picu / Trigger                                           |
|   |                                                     | Kas Atas / Eretan / Slide                                |
| 4 | Roket / Munisi                                      | Warhead / Payload (Explosive, Asap & Dummy)              |
|   |                                                     | Fuze                                                     |
|   |                                                     | Cap                                                      |
|   |                                                     | Igniter                                                  |
|   |                                                     | Tube                                                     |
|   |                                                     | Propelan + Liner                                         |
|   |                                                     | Fin                                                      |
|   |                                                     | Nozzle                                                   |
|   |                                                     | Rupture Disk                                             |
|   |                                                     | Break Rings                                              |
| 5 | Bom Tajam / Bom Live                                | Nose                                                     |
|   |                                                     | Gantungan Bom / Suslug                                   |
|   |                                                     | Badan Bom / Body                                         |
|   |                                                     | Ekor Bom / Fin                                           |
|   |                                                     | Isian / Explosive atau sejenisnya                        |
| 6 | Kamikaze Drone / Loitering Munition / Drop Bomb     | Warhead                                                  |
|   |                                                     | Fuze                                                     |
|   |                                                     | Airframe                                                 |
|   |                                                     | Motor                                                    |
|   |                                                     | Flight Control / Control System                          |
|   |                                                     | Isian (Explosive, Asap, & Dummy)                         |
| 7 | Multiple Launch Rocket System (MLRS)                | Platform / Bodi                                          |
|   |                                                     | Launcher                                                 |
|   |                                                     | Engine                                                   |
|   |                                                     | Automation System / Komputer / PLC / Fire Control System |
|   |                                                     | Elektrik Unit                                            |
|   |                                                     | Hidraulik Unit                                           |
| 8 | Rudal / Missile / Roket Berpemandu / Peluru Kendali | Warhead / Payload (Explosive, Asap, & Dummy)             |
|   |                                                     | Fuze                                                     |
|   |                                                     | Cap                                                      |
|   |                                                     | Igniter                                                  |
|   |                                                     | Tube                                                     |
|   |                                                     | Jet Engine / Combustion Engine                           |
|   |                                                     | Fin                                                      |
|   |                                                     | Nozzle                                                   |
|   |                                                     | Rocket Booster                                           |
|   |                                                     | Seeker / Sistem pemandu                                  |
|   |                                                     | Flight Control                                           |

|    |                                                          |                          |
|----|----------------------------------------------------------|--------------------------|
| 9  | Warhead Roket & Warhead Rudal / Missile / Peluru Kendali | Casing / Body            |
|    |                                                          | Fuze / Detonator         |
|    |                                                          | Isian / Explosive Filler |
| 10 | Casing Bom Tajam                                         | Body                     |
|    |                                                          | Tail                     |
|    |                                                          | Suslug                   |
|    |                                                          | Booster Housing          |

**2. 25999 – Industri Barang Logam Lainnya YTDL**

| No | Jenis Barang    | Uraian Komponen Utama |
|----|-----------------|-----------------------|
| 1  | Jangkar         | Steel Plate           |
|    |                 | Steel Assental        |
| 2  | Baling - Baling | Brass Ingot           |
|    |                 | Nikel                 |

**3. 27202 – Industri Akumulator Listrik**

| No | Jenis Barang                          | Uraian Komponen Utama |
|----|---------------------------------------|-----------------------|
| 1  | Akumulator Listrik Kendaraan Bermotor | Lead / Timbal         |
|    |                                       | Container             |
|    |                                       | Cover                 |
|    |                                       | Asesor                |
|    |                                       | Separator             |
| 2  | Akumulator Listrik (VRLA)             | Calcium Lead          |
|    |                                       | Lead                  |
|    |                                       | Resin                 |
|    |                                       | Separator             |
|    |                                       | Sulfuric Acid         |

**4. 27203 – Industri Baterai Untuk Kendaraan Bermotor Listrik**

| No | Jenis Barang               | Uraian Komponen Utama        |
|----|----------------------------|------------------------------|
| 1  | Baterai Kendaraan Bermotor | Battery Cell / Module        |
|    |                            | Battery Management System    |
|    |                            | Power Distribution Unit      |
|    |                            | Housing / Pack               |
|    |                            | Cooling / Thermal Management |
|    |                            | Socket                       |
|    |                            | Wiring Harness               |
|    |                            | Fuse                         |
|    |                            | Wiring Harness (W/H) Busbar  |

**5. 27900 – Industri Peralatan Listrik Lainnya**

| No | Jenis Barang                                     | Uraian Komponen Utama              |
|----|--------------------------------------------------|------------------------------------|
| 1  | Stasiun Pengisian Kendaraan Listrik Umum (SPKLU) | Power Modul / Converter            |
|    |                                                  | Molded Cast Circuit Breaker / MCCB |
|    |                                                  | Power Supply Auxiliary Converter   |
|    |                                                  | Controller PLC                     |
|    |                                                  | Modem / Ethernet Module            |
|    |                                                  | Konektor Charge                    |
|    |                                                  | Contact AC                         |
|    |                                                  | Cable                              |

|  |  |                                              |
|--|--|----------------------------------------------|
|  |  | Busbar AC Input – Output                     |
|  |  | Enclosure / Casing                           |
|  |  | Human Machine Interface (HMI) / Layar Sentuh |
|  |  | Sistem Pendingin                             |
|  |  | Sistem Grounding                             |
|  |  | Alat Ukur Listrik / KWh Meter                |

**6. 29101 – Industri Kendaraan Bermotor Roda Empat Atau Lebih**

| No | Jenis Barang                              | Uraian Komponen Utama             |
|----|-------------------------------------------|-----------------------------------|
| 1  | Light Commercial Vehicle, Truk, Bus Cabin | Engine                            |
|    |                                           | Cabin                             |
|    |                                           | Chassis                           |
|    |                                           | Transmission                      |
|    |                                           | Axle                              |
|    |                                           | Propeller Shaft                   |
|    |                                           | Clutch                            |
|    |                                           | Steering System                   |
|    |                                           | Brake System                      |
|    |                                           | Suspension System                 |
|    |                                           | Interior                          |
|    |                                           | Exterior                          |
|    |                                           | Fuel System                       |
|    |                                           | Electrical System                 |
| 2  | Bus Non Cabin                             | Air Intake & Exhaust Gas          |
|    |                                           | Engine Cooling System             |
|    |                                           | Engine                            |
|    |                                           | Chassis                           |
|    |                                           | Transmission                      |
|    |                                           | Axle                              |
|    |                                           | Propeller Shaft                   |
|    |                                           | Clutch                            |
|    |                                           | Steering System                   |
|    |                                           | Brake System                      |
|    |                                           | Suspension System                 |
|    |                                           | Exterior                          |
|    |                                           | Fuel System                       |
|    |                                           | Electrical System                 |
| 3  | Fuel Cell Electric Vehicle (FCEV)         | Air Intake & Exhaust Gas          |
|    |                                           | Engine Cooling System             |
|    |                                           | Battery                           |
|    |                                           | PCU / Inverter                    |
|    |                                           | Fuel Cell Stack dan Hydrogen Tank |
|    |                                           | Transmission                      |
|    |                                           | A. E-Transaxle                    |
|    |                                           | B. Clutch System                  |
|    |                                           | Body                              |
|    |                                           | Frame                             |
|    |                                           | Steering System                   |
|    |                                           | Suspension System                 |

|   |                                        |                                                                          |
|---|----------------------------------------|--------------------------------------------------------------------------|
|   |                                        | Brake System                                                             |
|   |                                        | Universal Component                                                      |
|   |                                        | Plastic Parts                                                            |
|   |                                        | Rubber Parts                                                             |
| 4 | Battery Electric Vehicle (BEV)         | Battery                                                                  |
|   |                                        | PCU / Inverter                                                           |
|   |                                        | Transmission                                                             |
|   |                                        | A. E-Transaxle                                                           |
|   |                                        | B. Clutch System                                                         |
|   |                                        | Motor                                                                    |
|   |                                        | Gardan (Axle)                                                            |
|   |                                        | Body                                                                     |
|   |                                        | Frame/Sasis                                                              |
|   |                                        | Kabin                                                                    |
|   |                                        | Steering System                                                          |
|   |                                        | Suspension System                                                        |
|   |                                        | Brake System                                                             |
|   |                                        | Universal Component                                                      |
|   |                                        | Plastic Parts                                                            |
|   |                                        | Rubber Parts                                                             |
|   |                                        | Sistem Roda                                                              |
|   |                                        | Sistem Elektronik dan Pendingin Udara                                    |
| 5 | Hybrid Electric Vehicle (HEV)          | Engine                                                                   |
|   |                                        | Battery                                                                  |
|   |                                        | PCU / Inverter                                                           |
|   |                                        | Transmission (Disesuaikan dengan Jenis Transmisi Kendaraan (A,B, atau C) |
|   |                                        | A. Transaxle Automatic                                                   |
|   |                                        | B. Transaxle Manual                                                      |
|   |                                        | C. E-Transaxle                                                           |
|   |                                        | D. Clutch System                                                         |
|   |                                        | Body                                                                     |
|   |                                        | Frame                                                                    |
|   |                                        | Steering System                                                          |
|   |                                        | Suspension System                                                        |
|   |                                        | Brake System                                                             |
|   |                                        | Universal Component                                                      |
|   |                                        | Plastic Parts                                                            |
|   |                                        | Rubber Parts                                                             |
| 6 | Plug-in Hybrid Electric Vehicle (PHEV) | Engine                                                                   |
|   |                                        | Battery                                                                  |
|   |                                        | External Plugin Charger                                                  |
|   |                                        | PCU / Inverter                                                           |
|   |                                        | Transmission                                                             |
|   |                                        | A. E-Transaxle                                                           |
|   |                                        | B. Clutch System                                                         |
|   |                                        | Body                                                                     |
|   |                                        | Frame                                                                    |

|   |                                            |                                                                          |
|---|--------------------------------------------|--------------------------------------------------------------------------|
|   |                                            | Steering System                                                          |
|   |                                            | Suspension System                                                        |
|   |                                            | Brake System                                                             |
|   |                                            | Universal Component                                                      |
|   |                                            | Plastic Parts                                                            |
|   |                                            | Rubber Parts                                                             |
| 7 | Kendaraan Internal Combustion Engine (ICE) | Engine                                                                   |
|   |                                            | Transmission (Disesuaikan Dengan Jenis Transmisi Kendaraan (A, B Atau C) |
|   |                                            | A. Transaxle Automatic                                                   |
|   |                                            | B. Transaxle Manual                                                      |
|   |                                            | C. E-Transaxle                                                           |
|   |                                            | D. Clutch System                                                         |
|   |                                            | Body                                                                     |
|   |                                            | Frame                                                                    |
|   |                                            | Steering System                                                          |
|   |                                            | Suspension System                                                        |
|   |                                            | Brake System                                                             |
|   |                                            | Universal Component                                                      |
|   |                                            | Plastic Parts                                                            |
|   |                                            | Rubber Parts                                                             |

**7. 29200 – Industri Karoseri Kendaraan Bermotor Roda Empat Atau Lebih; Industri Trailer Dan Semitrailer**

| No | Jenis Barang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Uraian Komponen Utama                     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 1  | Karoseri Kendaraan: Bus Besar, Bus Sedang, Bus Kecil, Mobil Penumpang, Mobil Tahanan, Mobil Laboratorium, Mobil Ambulance, Mobil Jenazah, Mobil Donor Darah, Mobil Tangki Air, Mobil Tangki Siram, Mobil Tangki Semprot, Mobil Tangki BBM, Mobil Tangki CPO, Mobil Tangki Gas, Mobil Tangki Bahan Kimia, Mobil Tangki Semen / Hi Blow, Mobil Tangki Vacuum Tinja, Mobil Tangki Vacuum CPO, Mobil Tangki Vacuum Combi Jetting, Mobil Tangki Water Suply Pemadam, Mobil Compactor Sampah, Mobil Road Sweeper, Mobil Road Sweeper Washer, Mobil Dump Truck, Mobil Dump Truck Sawit, Mobil Dump Truck Sampah, Mobil Mini Dump Sampah, Mobil Bak Terbuka Bahan Besi, Mobil Bak | <b>Struktur Utama (Body Structure)</b>    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Struktur Rangka body Karoseri             |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Struktur Plate Body Karoseri              |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Struktur Pintu                            |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Komponen Fabrikasi                        |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Sistem Interior</b>                    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Kursi                                     |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Interior Lantai                           |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Panel Interior Dinding, Plafond dan Pintu |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Dashboard                                 |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Komponen Finishing Dalam                  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Sistem Exterior</b>                    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wind Deflector                            |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tempered Glass                            |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Coating                                   |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Stiker Branding                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Terbuka Bahan Kayu, Mobil Toilet, Mobil Pengendali Masa, Mobil Patroli, Mobil Pelayanan Masyarakat, Mobil Pelayanan Kesehatan, Mobil Pelayanan Niaga, Mobil Pelayanan ATM, Mobil Box Logam, Mobil Box Non Logam, Mobil Refrigerated Box, Mobil Pemadam Kebakaran, Mobil Mini Pemadam Kebakaran, Mobil Tangki Air Pemadam Kebakaran, Mobil Derek, Mobil Derek dilengkapi Crane, Mobil Towing, Mobil Towing dilengkapi Crane, Mobil Bak terbuka dilengkapi Crane, Mobil Sky Lift / AWP, Mobil Self Loader, Mobil Self Loader dilengkapi Crane, Mobil Food Truck, Mobil Rescue, Mobil Service Truck, Mobil Arm Roll Sampah, Mobil Arm Roll Sawit, Kereta Tempelan Lantai, Kereta Tempelan Rangka / Skelaton, Kereta Tempelan Bak Terbuka, Kereta Tempelan Bak Tertutup, Kereta Tempelan Low Bed, Kereta Tempelan Tangki BBM, Kereta Tempelan Tangki CPO, Kereta Tempelan Tangki Gas, Kereta Tempelan Tangki Kimia, Trailer Toilet, Trailer Pompa Banjir, Trailer Genset, Mobil Inspeksi Jembatan, Mobil Inspeksi Jalan Raya, Mobil Video Tron, Mobil Drilling Rig, Mobil Rontgen, Mobil MCU / Pelayanan Medis, Mobil Pompa Banjir, Mobil Perpustakaan, Mobil Operasional Polisi, Mobil Operasional TNI, Mobil Training Unit, Mobil angkutan Satwa, Mobil Pemadam Kebakaran Khusus Bandara, Mobil Tangga Pemadam Kebakaran, Mobil Tangki LPG Evacuation, Mobil Water Canon, Trailer Pompa | Komponen Finishing Luar                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Sistem Kelistrikan &amp; Elektronik</b>                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Wiring Harness                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lampu                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Instrumen Kelistrikan                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Audio dan Video                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Sistem Heating, Ventilating, dan Air Conditioner (HVAC)</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AC                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ventilasi                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sistem Sirkulasi Udara                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Sistem Khusus sesuai Jenis Kendaraan</b>                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Pelayanan Kesehatan                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Pelayanan Masyarakat                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Pelayanan Niaga                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Pemadam Kebakaran                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Operasional Polisi                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Operasional TNI                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Sky lift / AWP                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Tangki                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Self loader                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Crane                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Pneumatic system                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Hydraulic system                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Derek                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Dump Truck                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Arm Roll                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Mobil Tangga Pemadam Kebakaran                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Road Sweeper                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus LPG Evacuation                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment khusus Genset                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sistem Toilet                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Komponen Suporting</b>                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Fastener                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Seal                                                           |

|  |                                           |               |
|--|-------------------------------------------|---------------|
|  | Pemadam Kebakaran, serta Karoseri Lainnya | Bracket Kecil |
|  |                                           | Solvent       |

**8. 29300 – Industri Suku Cadang Dan Aksesori Kendaraan Bermotor Roda Empat Atau Lebih**

| No | Jenis Barang                  | Uraian Komponen Utama                                                  |
|----|-------------------------------|------------------------------------------------------------------------|
| 1  | Radiator                      | <b>Core</b>                                                            |
|    |                               | Fin                                                                    |
|    |                               | Watertube                                                              |
|    |                               | Header Plate                                                           |
|    |                               | Protector SECC                                                         |
|    |                               | Solder Wire                                                            |
|    |                               | Solder Bar                                                             |
|    |                               | Flux                                                                   |
|    |                               | Cat / Coating                                                          |
|    |                               | Thinner                                                                |
|    |                               | <b>Tanki, Side Plate, Fan Shroud, Fan Guard, Core Guard, Skid Base</b> |
|    |                               | Plat Hitam / SPHC                                                      |
|    |                               | Plat Kuningan                                                          |
|    |                               | Pipa Besi / Pipa Hitam                                                 |
|    |                               | Pipa Kuningan                                                          |
|    |                               | Square Bar Besi                                                        |
|    |                               | Filler Neck                                                            |
|    |                               | Filler Cap                                                             |
|    |                               | Baut Galvanis                                                          |
|    |                               | Mur Galvanis                                                           |
|    |                               | Ring Per Galvanis                                                      |
|    |                               | Ring Plat Galvanis                                                     |
|    |                               | Socket BSP                                                             |
|    |                               | Plug BSP                                                               |
|    |                               | Socket NPT                                                             |
|    |                               | Plug NPT                                                               |
|    |                               | As Besi                                                                |
|    |                               | Kawat Las                                                              |
|    |                               | Kawat Las Brazing                                                      |
|    |                               | Silver Brazing                                                         |
|    |                               | Packing / Rubber                                                       |
|    |                               | Cat / Coating                                                          |
|    |                               | Thinner                                                                |
|    |                               | Overflow                                                               |
|    |                               | Kawat Locket / Ram                                                     |
| 2  | Kursi Bus                     | Hollow                                                                 |
|    |                               | Mild Steel                                                             |
|    |                               | ABS Sheet                                                              |
| 3  | PP Sheet                      | PP Granule                                                             |
| 4  | ABS Sheet                     | ABS Granule                                                            |
| 5  | HDPE Sheet                    | HDPE Granule                                                           |
| 6  | Roll Bar Pipe Stainless Steel | Pipe Stainless Steel                                                   |

|    |                                                                                                                                                    |                      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 7  | Rear Bumper                                                                                                                                        | ABS Sheet            |
| 8  | Motor Listrik                                                                                                                                      | Rotor                |
|    |                                                                                                                                                    | Stator               |
|    |                                                                                                                                                    | Housing Motor        |
|    |                                                                                                                                                    | Socket               |
|    |                                                                                                                                                    | Wiring Harness       |
|    |                                                                                                                                                    | Gear                 |
|    |                                                                                                                                                    | Cooling Tube         |
| 9  | Power Control Unit (PCU)                                                                                                                           | Rangkaian Elektronik |
|    |                                                                                                                                                    | Housing / Pack       |
|    |                                                                                                                                                    | Socket               |
|    |                                                                                                                                                    | Wiring Harness       |
| 10 | Rear Cargo Assy / Cover Bagasi Mobil                                                                                                               | ABS Sheet            |
|    |                                                                                                                                                    | Plywood              |
| 11 | Forging steel untuk kendaraan bermotor: gear, connecting rod, crankshaft, camshaft, dan komponen kendaraan bermotor lainnya dari forging steel     | Billet Baja          |
|    |                                                                                                                                                    | Roundbar Baja        |
|    |                                                                                                                                                    | Consumable           |
| 12 | Machining steel untuk kendaraan bermotor: gear, connecting rod, crankshaft, camshaft, dan komponen kendaraan bermotor lainnya dari machining steel | Forging Steel        |
| 13 | Machining assy untuk kendaraan bermotor: gear, connecting rod, crankshaft, camshaft, dan komponen kendaraan bermotor lainnya dari machining assy   | Forging Steel        |
|    |                                                                                                                                                    | Fastener             |
| 14 | Muffler Blank                                                                                                                                      | Plat Baja            |
|    |                                                                                                                                                    | Consumable           |
| 15 | Pelek Baja                                                                                                                                         | Disk / Piringan      |
|    |                                                                                                                                                    | Rim / Lingkar        |
|    |                                                                                                                                                    | Side Ring            |
| 16 | Radiator Assy                                                                                                                                      | Brass Strip          |
|    |                                                                                                                                                    | Brass Sheet          |
|    |                                                                                                                                                    | Copper               |
|    |                                                                                                                                                    | Steel Plate          |
|    |                                                                                                                                                    | Painting             |
|    |                                                                                                                                                    | Consumable           |
| 17 | Pelek Alumunium                                                                                                                                    | Aluminium Ingot      |
|    |                                                                                                                                                    | Scrap Aluminium      |
|    |                                                                                                                                                    | Coating / Cat        |

**9. 30111 – Industri Kapal Dan Perahu**

| No | Jenis Barang                              | Uraian Komponen Utama    |
|----|-------------------------------------------|--------------------------|
| 1  | Kapal Baja: Kapal Penumpang, Kapal Ferry, | <b>Hull Construction</b> |
|    |                                           | Steel plate & profile    |

|   |                                                                                                                      |                                                        |
|---|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|   | Kapal Tanker, Kapal Barang, Kapal Ikan, Kapal Tunda, Kapal Patroli, dan Kapal/Perahu Lainnya dengan Bahan Baku Baja  | Painting, Coating & Corrosion Protection               |
|   |                                                                                                                      | Consumables                                            |
|   |                                                                                                                      | <b>Hull Outfitting</b>                                 |
|   |                                                                                                                      | Peralatan Labuh & Tambat                               |
|   |                                                                                                                      | Deck Machineries                                       |
|   |                                                                                                                      | Heat Ventilation & Air Conditioning                    |
|   |                                                                                                                      | Accommodation & Interior                               |
|   |                                                                                                                      | Peralatan Kemudi                                       |
|   |                                                                                                                      | Peralatan Bongkar Muat                                 |
|   |                                                                                                                      | Peralatan Pemadam Kebakaran                            |
|   |                                                                                                                      | Peralatan Keselamatan                                  |
|   |                                                                                                                      | Peralatan Lainnya (Jendela, Manhole, Cargo Hatch, dll) |
|   |                                                                                                                      | Peralatan Khusus                                       |
|   |                                                                                                                      | <b>Machinery Outfitting</b>                            |
|   |                                                                                                                      | Main engine                                            |
|   |                                                                                                                      | Propulsion System                                      |
|   |                                                                                                                      | Diesel Genset                                          |
|   |                                                                                                                      | Pompa-pompa                                            |
|   |                                                                                                                      | Pipa & Valve                                           |
|   |                                                                                                                      | Auxiliary Machineries                                  |
|   |                                                                                                                      | <b>Electrical Outfitting</b>                           |
|   |                                                                                                                      | Power Source Equipment                                 |
|   |                                                                                                                      | Electrical Cabling                                     |
|   |                                                                                                                      | Illumination & Navigation Lighting Equipment           |
|   |                                                                                                                      | Navigasi dan Komunikasi                                |
|   |                                                                                                                      | Other Electrical Equipment                             |
| 2 | Kapal Aluminium: Kapal Penumpang, Kapal Crewboat, Kapal Patroli dan Kapal/Perahu Lainnya dengan Bahan Baku Aluminium | <b>Hull Construction</b>                               |
|   |                                                                                                                      | Pelat Aluminium & Profil Aluminium                     |
|   |                                                                                                                      | Painting, Coating & Corrosion Protection               |
|   |                                                                                                                      | Consumables                                            |
|   |                                                                                                                      | <b>Hull Outfitting</b>                                 |
|   |                                                                                                                      | Peralatan Labuh & Tambat                               |
|   |                                                                                                                      | Deck Machineries                                       |
|   |                                                                                                                      | Heat Ventilation & Air Conditioning                    |
|   |                                                                                                                      | Accommodation & Interior                               |
|   |                                                                                                                      | Peralatan Kemudi                                       |
|   |                                                                                                                      | Peralatan Bongkar Muat                                 |
|   |                                                                                                                      | Peralatan Pemadam Kebakaran                            |
|   |                                                                                                                      | Peralatan Keselamatan                                  |
|   |                                                                                                                      | Peralatan Lainnya (Jendela, Manhole, Cargo Hatch, dll) |
|   |                                                                                                                      | Peralatan Khusus                                       |
|   |                                                                                                                      | <b>Machinery Outfitting</b>                            |
|   |                                                                                                                      | Main engine                                            |
|   |                                                                                                                      | Propulsion System                                      |
|   |                                                                                                                      | Diesel Genset                                          |

|   |                                                                                                                                                                                                                                                   |                                                        |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|   |                                                                                                                                                                                                                                                   | Pompa-pompa                                            |
|   |                                                                                                                                                                                                                                                   | Pipa & Valve                                           |
|   |                                                                                                                                                                                                                                                   | Auxiliary Machineries                                  |
|   |                                                                                                                                                                                                                                                   | <b>Electrical Outfitting</b>                           |
|   |                                                                                                                                                                                                                                                   | Power Source Equipment                                 |
|   |                                                                                                                                                                                                                                                   | Electrical Cabling                                     |
|   |                                                                                                                                                                                                                                                   | Illumination & Navigation Lighting Equipment           |
|   |                                                                                                                                                                                                                                                   | Navigasi dan Komunikasi                                |
|   |                                                                                                                                                                                                                                                   | Other Electrical Equipment                             |
| 3 | Kapal Fiberglass: Kapal Ikan, Kapal Patroli (Pilot Boat, Kapal Rescue), Kapal Penumpang (Kapal Wisata, Crew Boat), Tug Boat (Kapal Pemadam Kebakaran), Kapal Ambulance (Puskemas Keliling), dan Kapal/Perahu Lainnya dengan Bahan Baku Fiberglass | <b>Hull Construction</b>                               |
|   |                                                                                                                                                                                                                                                   | Resin & Serat Fibre                                    |
|   |                                                                                                                                                                                                                                                   | Painting, Coating & Corrosion Protection               |
|   |                                                                                                                                                                                                                                                   | Consumables                                            |
|   |                                                                                                                                                                                                                                                   | <b>Hull Outfitting</b>                                 |
|   |                                                                                                                                                                                                                                                   | Peralatan Labuh & Tambat                               |
|   |                                                                                                                                                                                                                                                   | Deck Machineries                                       |
|   |                                                                                                                                                                                                                                                   | Heat Ventilation & Air Conditioning                    |
|   |                                                                                                                                                                                                                                                   | Accommodation & Interior                               |
|   |                                                                                                                                                                                                                                                   | Peralatan Kemudi                                       |
|   |                                                                                                                                                                                                                                                   | Peralatan Bongkar Muat                                 |
|   |                                                                                                                                                                                                                                                   | Peralatan Pemadam Kebakaran                            |
|   |                                                                                                                                                                                                                                                   | Peralatan Keselamatan                                  |
|   |                                                                                                                                                                                                                                                   | Peralatan Lainnya (Jendela, Manhole, Cargo Hatch, dll) |
|   |                                                                                                                                                                                                                                                   | Peralatan Khusus                                       |
|   |                                                                                                                                                                                                                                                   | <b>Machinery Outfitting</b>                            |
|   |                                                                                                                                                                                                                                                   | Main engine                                            |
|   |                                                                                                                                                                                                                                                   | Propulsion System                                      |
|   |                                                                                                                                                                                                                                                   | Diesel Genset                                          |
|   |                                                                                                                                                                                                                                                   | Pompa-pompa                                            |
|   |                                                                                                                                                                                                                                                   | Pipa & Valve                                           |
|   |                                                                                                                                                                                                                                                   | Auxiliary Machineries                                  |
|   |                                                                                                                                                                                                                                                   | <b>Electrical Outfitting</b>                           |
|   |                                                                                                                                                                                                                                                   | Power Source Equipment                                 |
|   |                                                                                                                                                                                                                                                   | Electrical Cabling                                     |
|   |                                                                                                                                                                                                                                                   | Illumination & Navigation Lighting Equipment           |
|   |                                                                                                                                                                                                                                                   | Navigasi dan Komunikasi                                |
|   |                                                                                                                                                                                                                                                   | Other Electrical Equipment                             |
| 4 | Kapal Bimetal: Kapal Ikan, Kapal Patroli, Kapal Penumpang, dan Kapal/Perahu Lainnya dengan Bahan Baku Bimetal                                                                                                                                     | <b>Hull Construction</b>                               |
|   |                                                                                                                                                                                                                                                   | Pelat & Profil Baja serta Pelat & Profil Aluminium     |
|   |                                                                                                                                                                                                                                                   | Painting, Coating & Corrosion Protection               |
|   |                                                                                                                                                                                                                                                   | Consumables                                            |
|   |                                                                                                                                                                                                                                                   | <b>Hull Outfitting</b>                                 |
|   |                                                                                                                                                                                                                                                   | Peralatan Labuh & Tambat                               |
|   |                                                                                                                                                                                                                                                   | Deck Machineries                                       |
|   |                                                                                                                                                                                                                                                   | Heat Ventilation & Air Conditioning                    |

|   |                                                                                                                       |                                                        |
|---|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|   |                                                                                                                       | Accomodation & Interior                                |
|   |                                                                                                                       | Peralatan Kemudi                                       |
|   |                                                                                                                       | Peralatan Bongkar Muat                                 |
|   |                                                                                                                       | Peralatan Pemadam Kebakaran                            |
|   |                                                                                                                       | Peralatan Keselamatan                                  |
|   |                                                                                                                       | Peralatan Lainnya (Jendela, Manhole, Cargo Hatch, dll) |
|   |                                                                                                                       | Peralatan Khusus                                       |
|   |                                                                                                                       | <b>Machinery Outfitting</b>                            |
|   |                                                                                                                       | Main engine                                            |
|   |                                                                                                                       | Propulsion System                                      |
|   |                                                                                                                       | Diesel Genset                                          |
|   |                                                                                                                       | Pompa-pompa                                            |
|   |                                                                                                                       | Pipa & Valve                                           |
|   |                                                                                                                       | Auxiliary Machineries                                  |
|   |                                                                                                                       | <b>Electrical Outfitting</b>                           |
|   |                                                                                                                       | Power Source Equipment                                 |
|   |                                                                                                                       | Electrical Cabling                                     |
|   |                                                                                                                       | Illumination & Navigation Lighting Equipment           |
|   |                                                                                                                       | Navigasi dan Komunikasi                                |
|   |                                                                                                                       | Other Electrical Equipment                             |
| 5 | Kapal Kayu: Kapal Ikan, Kapal Patroli, Kapal Penumpang, Kapal Barang, dan Kapal/Perahu Lainnya dengan Bahan Baku Kayu | <b>Hull Construction</b>                               |
|   |                                                                                                                       | Kayu Papan dan Kayu Balok                              |
|   |                                                                                                                       | Painting, Coating & Corrosion Protection               |
|   |                                                                                                                       | Consumables                                            |
|   |                                                                                                                       | <b>Hull Outfitting</b>                                 |
|   |                                                                                                                       | Peralatan Labuh & Tambat                               |
|   |                                                                                                                       | Deck Machineries                                       |
|   |                                                                                                                       | Heat Ventilation & Air Conditioning                    |
|   |                                                                                                                       | Accomodation & Interior                                |
|   |                                                                                                                       | Peralatan Kemudi                                       |
|   |                                                                                                                       | Peralatan Bongkar Muat                                 |
|   |                                                                                                                       | Peralatan Pemadam Kebakaran                            |
|   |                                                                                                                       | Peralatan Keselamatan                                  |
|   |                                                                                                                       | Peralatan Lainnya (Jendela, Manhole, Cargo Hatch, dll) |
|   |                                                                                                                       | Peralatan Khusus (Termasuk layar)                      |
|   |                                                                                                                       | <b>Machinery Outfitting</b>                            |
|   |                                                                                                                       | Main engine                                            |
|   |                                                                                                                       | Propulsion System                                      |
|   |                                                                                                                       | Diesel Genset                                          |
|   |                                                                                                                       | Pompa-pompa                                            |
|   |                                                                                                                       | Pipa & Valve                                           |
|   |                                                                                                                       | Auxiliary Machineries                                  |
|   |                                                                                                                       | <b>Electrical Outfitting</b>                           |
|   |                                                                                                                       | Power Source Equipment                                 |
|   |                                                                                                                       | Electrical Cabling                                     |
|   |                                                                                                                       | Illumination & Navigation Lighting Equipment           |

|   |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                                                                                                                                                                                 | Navigasi dan Komunikasi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|   |                                                                                                                                                                                                                                                                                 | Other Electrical Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6 | Perahu Karet/ PVC<br>Perahu Patroli (Rescue),<br>Perahu Penumpang (Wisata),<br>dan Kapal/Perahu Lainnya<br>dengan Bahan Baku Karet/<br>PVC                                                                                                                                      | <b>Hull Construction</b><br>Karet, Papan Kayu, Marine Plywood,<br>Aluminium, PVC<br>Painting, Coating & Corrosion<br>Protection<br>Consumables<br><b>Hull Outfitting</b><br>Peralatan Labuh & Tambat<br>Peralatan Kemudi<br>Peralatan Keselamatan<br><b>Machinery Outfitting</b><br>Outboard Engine<br><b>Electrical Outfitting</b><br>Power Source Equipment<br>Electrical Cabling<br>Illumination & Navigation Lighting<br>Equipment<br>Navigasi dan Komunikasi<br>Other Electrical Equipment                                                                                                                                                                                                                                                   |
| 7 | Kapal/ Perahu PE/HDPE:<br>Kapal Ikan, Kapal Patroli (Pilot<br>Boat, Kapal Rescue), Kapal<br>Penumpang (Kapal Wisata,<br>Crew Boat), Tug Boat (Kapal<br>Pemadam Kebakaran), Kapal<br>Ambulance (Puskesmas<br>Keliling), dan Kapal/Perahu<br>Lainnya dengan Bahan Baku<br>PE/HDPE | <b>Hull Construction</b><br>PE / HDPE<br>Painting, Coating & Corrosion<br>Protection<br>Consumables<br><b>Hull Outfitting</b><br>Peralatan Labuh & Tambat<br>Deck Machineries<br>Heat Ventilation & Air Conditioning<br>Accommodation & Interior<br>Peralatan Kemudi<br>Peralatan Bongkar Muat<br>Peralatan Pemadam Kebakaran<br>Peralatan Keselamatan<br>Peralatan Lainnya (Jendela,<br>Manhole, Cargo Hatch, dll)<br>Peralatan Khusus<br><b>Machinery Outfitting</b><br>Main Engine<br>Propulsion System<br>Diesel Genset<br>Pompa-Pompa<br>Pipa & Valve<br>Auxiliary Machineries<br><b>Electrical Outfitting</b><br>Power Source Equipment<br>Electrical Cabling<br>Illumination & Navigation Lighting<br>Equipment<br>Navigasi dan Komunikasi |

|  |                            |
|--|----------------------------|
|  | Other Electrical Equipment |
|--|----------------------------|

**10. 30112 – Industri Bangunan Lepas Pantai Dan Bangunan Terapung**

| No | Jenis Barang             | Uraian Komponen Utama      |
|----|--------------------------|----------------------------|
| 1  | Buoy PE                  | Polietilen                 |
| 2  | Buoy Steel               | Steel                      |
| 3  | Floating Hose Stabilizer | Polietilen                 |
| 4  | Ponton Beton Terapung    | Beton                      |
|    |                          | Expanded Polystyrene (EPS) |
|    |                          | Baja Tulangan              |
| 5  | Ponton Baja              | Plat Baja                  |
|    |                          | Siku Baja                  |
| 6  | Rumpon Cerdas            | Resin                      |
|    |                          | Matt                       |
|    |                          | Woven Roving               |
|    |                          | Katalis                    |
|    |                          | Mirror Glass               |
|    |                          | Aerosil                    |
|    |                          | Dempul Talak               |
|    |                          | Cat Marine                 |
|    |                          | Engsel Stainless           |
|    |                          | Kunci Set                  |
|    |                          | Karet Penggabung           |
|    |                          | Karet Pintu                |
|    |                          | Tiang Stainless            |
|    |                          | Baut Stainless             |
|    |                          | Pigmen                     |
|    |                          | Foam                       |

**11. 30113 - Industri Peralatan, Perlengkapan dan Bagian Kapal**

| No | Jenis Barang                 | 3                       |
|----|------------------------------|-------------------------|
| 1  | Dinding Kapal                | Galvalum                |
|    |                              | Insulator Tahan Api     |
| 2  | Dinding Kapal Corrugated     | Alluminium              |
|    |                              | Insulator Tahan Api     |
| 3  | Kursi Nahkoda (Captain Seat) | Hollow                  |
|    |                              | Stainless               |
|    |                              | Mild Steel              |
| 4  | Kursi Kapal                  | Hollow                  |
|    |                              | Mild Stell              |
|    |                              | ABS Sheet               |
| 5  | Plafon                       | Galvalum                |
|    |                              | Insulator Tahan Api     |
| 6  | Pintu Kapal                  | Hollow                  |
|    |                              | Alluminium              |
| 7  | Tempat Tidur Kapal           | Hollow                  |
|    |                              | Stainless               |
| 8  | Windlass                     | Baja                    |
|    |                              | Sistem Elektro-Hidrolik |
| 9  | Windlass Combination         | Baja                    |
|    |                              | Sistem Elektro-Hidrolik |

|    |                               |                         |
|----|-------------------------------|-------------------------|
| 10 | Anchor Winch                  | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 11 | Mooring Winch                 | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 12 | Rampdoor Winch                | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 13 | Towing Winch                  | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 14 | Escort Winch                  | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 15 | Capstan                       | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 16 | Hydraulic Power Unit          | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 17 | Towing Hook                   | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 18 | Cargo Crane                   | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 19 | Grab Crane                    | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 20 | Deck Crane / Fixed Boom Crane | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 21 | Telescopic Knuckle Boom Crane | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 22 | Davit Crane                   | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 23 | Overhead Crane                | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 24 | Steering Gear                 | Sistem Elektro-Hidrolik |
| 25 | LARS System                   | Stainless               |
|    |                               | Sistem Elektro-Hidrolik |
| 26 | Hangar Door                   | Aluminium               |
|    |                               | Sistem Elektro-Hidrolik |
| 27 | Stern Door                    | Baja                    |
|    |                               | Sistem Elektro-Hidrolik |
| 28 | Accommodation Ladder          | Aluminium               |
|    |                               | Sistem Elektro-Hidrolik |

**12. 30200 – Industri Lokomotif Dan Gerbong Kereta**

| No | Jenis Barang                                                                                                                                                                                              | Uraian Komponen Utama                                                     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| 1  | Kereta Tidak Berpenggerak (yang ditarik lokomotif) - Kereta Penumpang (kelas eksekutif, premium, ekonomi, luxury, compartement, panoramic, dan dan Jenis Kereta Penumpang yang Ditarik Lokomotif Lainnya) | Door System                                                               |
|    |                                                                                                                                                                                                           | Raw Material Carbody dan Bogie                                            |
|    |                                                                                                                                                                                                           | Interior Component (Passenger Seat, Table, dan Komponen Interior Lainnya) |
|    |                                                                                                                                                                                                           | Air Conditioning                                                          |
|    |                                                                                                                                                                                                           | Interior Panel                                                            |
|    |                                                                                                                                                                                                           | Passenger Information System                                              |
|    |                                                                                                                                                                                                           | Bogie Kit                                                                 |
|    |                                                                                                                                                                                                           | Water Tank System                                                         |
|    |                                                                                                                                                                                                           | Electrical Wiring                                                         |

|   |                                                                        |                                                                           |
|---|------------------------------------------------------------------------|---------------------------------------------------------------------------|
|   |                                                                        | Electrical Panel, Box & Rak                                               |
|   |                                                                        | Wheel Set                                                                 |
|   |                                                                        | Toilet Module                                                             |
|   |                                                                        | Flooring                                                                  |
|   |                                                                        | Window                                                                    |
|   |                                                                        | Lighting                                                                  |
|   |                                                                        | Coupling Device                                                           |
|   |                                                                        | Brake System                                                              |
|   |                                                                        | Insulation                                                                |
|   |                                                                        | Vehicle Linkage Devices (Corrugated Bellow and Apron)                     |
|   |                                                                        | Carrier, System, Enclosure                                                |
|   |                                                                        | Partisi Modular                                                           |
|   |                                                                        | Tool, Consumable, dan Fastening                                           |
|   |                                                                        | Curtain                                                                   |
|   |                                                                        | Meja Complete Set                                                         |
|   |                                                                        | Safety Kit                                                                |
|   |                                                                        | External Addition                                                         |
| 2 | Kereta Tidak Berpenggerak (yang ditarik lokomotif) - Kereta Pembangkit | Doors (Door System)                                                       |
|   |                                                                        | Engine (Untuk Kereta Pembangkit)                                          |
|   |                                                                        | Raw Material Carbody Dan Bogie                                            |
|   |                                                                        | Vehicle Fitting Out (Interior Panel)                                      |
|   |                                                                        | Bogie Kit                                                                 |
|   |                                                                        | Electrical Wiring                                                         |
|   |                                                                        | Electrical Panel, Box & Rak                                               |
|   |                                                                        | Running Gear (Wheel Set)                                                  |
|   |                                                                        | Vehicle Fitting Out (Flooring)                                            |
|   |                                                                        | Vehicle Fitting Out (Window)                                              |
|   |                                                                        | Lighting                                                                  |
|   |                                                                        | Coupling Device                                                           |
|   |                                                                        | Brake (Brake System)                                                      |
|   |                                                                        | Vehicle Fitting Out (Insulation)                                          |
|   |                                                                        | Vehicle Linkage Devices (Corrugated Bellow and Apron)                     |
|   |                                                                        | Carrier, System, Enclosure                                                |
|   |                                                                        | Partisi Modular                                                           |
|   |                                                                        | Tool, Consumable, dan Fastening                                           |
|   |                                                                        | Interior Appointments (Complete Set Table)                                |
|   |                                                                        | Monitoring And Safety Equipment (Safety Kit)                              |
|   |                                                                        | External Addition                                                         |
| 3 | Kereta Tidak Berpenggerak (yang ditarik lokomotif) - Kereta Makan      | Doors (Door System)                                                       |
|   |                                                                        | Raw Material Carbody Dan Bogie                                            |
|   |                                                                        | Interior Component (Passenger Seat, Table, dan Komponen Interior Lainnya) |
|   |                                                                        | Air Conditioning                                                          |
|   |                                                                        | Vehicle Fitting Out (Interior Panel)                                      |
|   |                                                                        | Passenger Information System                                              |
|   |                                                                        | Bogie Kit                                                                 |

|   |                                          |                                                       |
|---|------------------------------------------|-------------------------------------------------------|
|   |                                          | Interior Appointments (Water Tank System)             |
|   |                                          | Electrical Wiring                                     |
|   |                                          | Electrical Panel, Box & Rak                           |
|   |                                          | Running Gear (Wheel Set)                              |
|   |                                          | Vehicle Fitting Out (Toilet Module)                   |
|   |                                          | Vehicle Fitting Out (Flooring)                        |
|   |                                          | Vehicle Fitting Out (Window)                          |
|   |                                          | Lighting                                              |
|   |                                          | Coupling Device                                       |
|   |                                          | Brake (Brake System)                                  |
|   |                                          | Vehicle Fitting Out (Insulation)                      |
|   |                                          | Vehicle Linkage Devices (Corrugated Bellow and Apron) |
|   |                                          | Carrier, System, Enclosure                            |
|   |                                          | Partisi Modular                                       |
|   |                                          | Tool, Consumable, dan Fastening                       |
|   |                                          | Interior Appointments (Curtain)                       |
|   |                                          | Interior Appointments (Complete Set Table)            |
|   |                                          | Monitoring And Safety Equipment (Safety Kit)          |
|   |                                          | External Addition                                     |
| 4 | Kereta Rel Diesel Elektrik (KRDE)        | Electrical Wiring (Electrical Main Component)         |
|   |                                          | Engine                                                |
|   |                                          | Brake (Brake System)                                  |
|   |                                          | Vehicle Fitting Out (Interior Panel)                  |
|   |                                          | Vehicle Body (Raw Material, Carbody Dan Bogie Frame)  |
|   |                                          | Eksterior                                             |
|   |                                          | Power System & Drive Unit (VVF dan Brake Resistor)    |
|   |                                          | Alternator                                            |
|   |                                          | Running Gear (Wheel Set, Bearing, Transom Bogie)      |
|   |                                          | Traction Motor                                        |
|   |                                          | Auxiliary Operating Equipment (Auxiliary Power Unit)  |
|   |                                          | Gearbox                                               |
|   |                                          | Tecu & Rectifier                                      |
|   |                                          | Doors (Door System)                                   |
|   |                                          | Vehicle Fitting Out (Radiator)                        |
|   |                                          | Running Gear (Wheelset, Bearing, Transom Bogie)       |
|   |                                          | Consumable, Toolkit, Fastening                        |
|   |                                          | Auxiliary Operating Equipment (Battery Charger)       |
| 5 | Gerbong Datar (PPCW, PPCW Rel, dan Jenis | Running Gear (Bogie)                                  |
|   |                                          | Raw Material                                          |

|   |                                                                                                                                                                 |                                                                           |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|   | Gerbong Datar lainnya)                                                                                                                                          | Vehicle Linkage Devices (Automatic Coupler)                               |
|   |                                                                                                                                                                 | Brake (Brake System)                                                      |
|   |                                                                                                                                                                 | Tool, Consumable, dan Fastening                                           |
|   |                                                                                                                                                                 | Paint                                                                     |
|   |                                                                                                                                                                 | Twist Lock                                                                |
| 6 | Gerbong Curah Buka-an Atas (KKBW, GB, dan Jenis Gerbong Buka-an Atas Lainnya)                                                                                   | Running Gear (Bogie Set)                                                  |
|   |                                                                                                                                                                 | Raw Material                                                              |
|   |                                                                                                                                                                 | Vehicle Linkage Devices (Automatic Coupler)                               |
|   |                                                                                                                                                                 | Brake (Brake System)                                                      |
|   |                                                                                                                                                                 | Tool, Consumable, dan Fastening                                           |
|   |                                                                                                                                                                 | Paint                                                                     |
| 7 | Kereta Berpenggerak dengan Sumber Listrik dari Luar (KRL & LRT)                                                                                                 | Power System & Drive Unit                                                 |
|   |                                                                                                                                                                 | Electrical Wiring (Electrical System)                                     |
|   |                                                                                                                                                                 | Brake (Brake System)                                                      |
|   |                                                                                                                                                                 | Vehicle Body (Raw Material, Carbody dan Bogie Frame                       |
|   |                                                                                                                                                                 | Electrical Wiring (Electrical Main Component)                             |
|   |                                                                                                                                                                 | Doors (Door System)                                                       |
|   |                                                                                                                                                                 | Running Gear (Wheel Set, Bearing, Transom Bogie)                          |
|   |                                                                                                                                                                 | Vehicle Fitting Out (Interior Panel)                                      |
|   |                                                                                                                                                                 | Interior Component (Passenger Seat, Table, dan Komponen Interior Lainnya) |
|   |                                                                                                                                                                 | Vehicle Linkage Device (Coupling Device)                                  |
|   |                                                                                                                                                                 | Tool, Consumable, dan Fastening                                           |
|   |                                                                                                                                                                 | Control Apparatus For Train Operations (Train Control)                    |
|   |                                                                                                                                                                 | External Addition                                                         |
|   |                                                                                                                                                                 | Vehicle Fitting Out (Window)                                              |
|   |                                                                                                                                                                 | Vehicle Linkage Devices (Corrugated Bellow dan Apron)                     |
|   |                                                                                                                                                                 | Vehicle Fitting Out (Flooring)                                            |
|   |                                                                                                                                                                 | Vehicle Fitting Out (Insulation)                                          |
|   |                                                                                                                                                                 | Paint                                                                     |
| 8 | Gerbong Curah Buka-an Bawah (ZZOW, Bottom Dump, Bottom Dump Hopper Wagon atau Coal Hopper Bottom, GB, dan Jenis Gerbong Curah dengan Mekanisme Buka-an lainnya) | Bottom Door                                                               |
|   |                                                                                                                                                                 | Underframe                                                                |
|   |                                                                                                                                                                 | Side Wall                                                                 |
|   |                                                                                                                                                                 | End Wall                                                                  |
|   |                                                                                                                                                                 | Upper and Lower Hopper Ridge                                              |
|   |                                                                                                                                                                 | Bogie frame                                                               |
|   |                                                                                                                                                                 | Wheelset                                                                  |
|   |                                                                                                                                                                 | Bearing                                                                   |
|   |                                                                                                                                                                 | Sistem Unloading                                                          |
|   |                                                                                                                                                                 | Automatic Coupler                                                         |
|   |                                                                                                                                                                 | Brake System                                                              |

|    |                                                                                                                                                                                       |                                                      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
|    |                                                                                                                                                                                       | Material Pengecatan                                  |
|    |                                                                                                                                                                                       | Tool, Consumable, Fastening, dan Komponen Lain       |
|    |                                                                                                                                                                                       | Tools Box/Tools Set                                  |
| 9  | Kereta Rel Diesel Hidrolik (KRDH)                                                                                                                                                     | Electrical Wiring (Electrical Main Component)        |
|    |                                                                                                                                                                                       | Engine                                               |
|    |                                                                                                                                                                                       | Brake (Brake System)                                 |
|    |                                                                                                                                                                                       | Vehicle Fitting Out (Interior Panel)                 |
|    |                                                                                                                                                                                       | Vehicle Body (Raw Material, Carbody Dan Bogie Frame) |
|    |                                                                                                                                                                                       | Eksterior                                            |
|    |                                                                                                                                                                                       | Power System & Drive Unit (VVF dan Brake Resistor)   |
|    |                                                                                                                                                                                       | Alternator                                           |
|    |                                                                                                                                                                                       | Running Gear (Wheel Set, Bearing, Transom Bogie)     |
|    |                                                                                                                                                                                       | Auxiliary Operating Equipment (Auxiliary Power Unit) |
|    |                                                                                                                                                                                       | Gearbox                                              |
|    |                                                                                                                                                                                       | Tecu & Rectifier                                     |
|    |                                                                                                                                                                                       | Doors (Door System)                                  |
|    |                                                                                                                                                                                       | Vehicle Fitting Out (Radiator)                       |
|    |                                                                                                                                                                                       | Running Gear (Wheelset, Bearing, Transom Bogie)      |
|    |                                                                                                                                                                                       | Consumable, Toolkit, Fastening                       |
|    |                                                                                                                                                                                       | Auxiliary Operating Equipment (Battery Charger)      |
| 10 | Kereta Tidak Berpenggerak (yang ditarik lokomotif) - Kereta Khusus (Kereta Inspeksi (lori), Kereta Penolong, Kereta Kepresidenan, dan Jenis Kereta Khusus Tidak Berpenggerak Lainnya) | Electrical Wiring (Electrical Main Component)        |
|    |                                                                                                                                                                                       | Engine                                               |
|    |                                                                                                                                                                                       | Brake (Brake System)                                 |
|    |                                                                                                                                                                                       | Vehicle Fitting Out (Interior Panel)                 |
|    |                                                                                                                                                                                       | Vehicle Body (Raw Material, Carbody Dan Bogie Frame) |
|    |                                                                                                                                                                                       | Eksterior                                            |
|    |                                                                                                                                                                                       | Power System & Drive Unit (VVF dan Brake Resistor)   |
|    |                                                                                                                                                                                       | Alternator                                           |
|    |                                                                                                                                                                                       | Running Gear (Wheel Set, Bearing, Transom Bogie)     |
|    |                                                                                                                                                                                       | Traction Motor                                       |
|    |                                                                                                                                                                                       | Auxiliary Operating Equipment (Auxiliary Power Unit) |
|    |                                                                                                                                                                                       | Gearbox                                              |
|    |                                                                                                                                                                                       | Tecu & Rectifier                                     |
|    |                                                                                                                                                                                       | Doors (Door System)                                  |
|    |                                                                                                                                                                                       | Vehicle Fitting Out (Radiator)                       |
|    |                                                                                                                                                                                       | Running Gear (Wheelset, Bearing, Transom Bogie)      |
|    |                                                                                                                                                                                       | Consumable, Toolkit, Fastening                       |

|    |                           |                                                      |
|----|---------------------------|------------------------------------------------------|
|    |                           | Auxiliary Operating Equipment (Battery Charger)      |
| 11 | Lokomotif Diesel Elektrik | Electrical Wiring (Electrical Main Component)        |
|    |                           | Engine                                               |
|    |                           | Brake (Brake System)                                 |
|    |                           | Vehicle Fitting Out (Interior Panel)                 |
|    |                           | Vehicle Body (Raw Material, Carbody Dan Bogie Frame) |
|    |                           | Eksterior                                            |
|    |                           | Power System & Drive Unit (VVF dan Brake Resistor)   |
|    |                           | Alternator                                           |
|    |                           | Running Gear (Wheel Set, Bearing, Transom Bogie)     |
|    |                           | Traction Motor                                       |
|    |                           | Auxiliary Operating Equipment (Auxiliary Power Unit) |
|    |                           | Gearbox                                              |
|    |                           | Tecu & Rectifier                                     |
|    |                           | Doors (Door System)                                  |
|    |                           | Vehicle Fitting Out (Radiator)                       |
|    |                           | Running Gear (Wheelset, Bearing, Transom Bogie)      |
|    |                           | Consumable, Toolkit, Fastening                       |
|    |                           | Auxiliary Operating Equipment (Battery Charger)      |
| 12 | Lokomotif Diesel Hidrolik | Electrical Wiring (Electrical Main Component)        |
|    |                           | Engine                                               |
|    |                           | Brake (Brake System)                                 |
|    |                           | Vehicle Fitting Out (Interior Panel)                 |
|    |                           | Vehicle Body (Raw Material, Carbody Dan Bogie Frame) |
|    |                           | Eksterior                                            |
|    |                           | Power System & Drive Unit (VVF dan Brake Resistor)   |
|    |                           | Alternator                                           |
|    |                           | Running Gear (Wheel Set, Bearing, Transom Bogie)     |
|    |                           | Auxiliary Operating Equipment (Auxiliary Power Unit) |
|    |                           | Gearbox                                              |
|    |                           | Tecu & Rectifier                                     |
|    |                           | Doors (Door System)                                  |
|    |                           | Vehicle Fitting Out (Radiator)                       |
|    |                           | Running Gear (Wheelset, Bearing, Transom Bogie)      |
|    |                           | Consumable, Toolkit, Fastening                       |

|    |                                                                    |                                                       |
|----|--------------------------------------------------------------------|-------------------------------------------------------|
|    |                                                                    | Auxiliary Operating Equipment (Battery Charger)       |
| 13 | Kereta Tidak Berpenggerak (yang ditarik lokomotif) - Kereta Bagasi | Doors (Door System)                                   |
|    |                                                                    | Engine (Untuk Kereta Pembangkit)                      |
|    |                                                                    | Raw Material Carbody Dan Bogie                        |
|    |                                                                    | Vehicle Fitting Out (Interior Panel)                  |
|    |                                                                    | Bogie Kit                                             |
|    |                                                                    | Electrical Wiring                                     |
|    |                                                                    | Electrical Panel, Box & Rak                           |
|    |                                                                    | Running Gear (Wheel Set)                              |
|    |                                                                    | Vehicle Fitting Out (Flooring)                        |
|    |                                                                    | Vehicle Fitting Out (Window)                          |
|    |                                                                    | Lighting                                              |
|    |                                                                    | Coupling Device                                       |
|    |                                                                    | Brake (Brake System)                                  |
|    |                                                                    | Vehicle Fitting Out (Insulation)                      |
|    |                                                                    | Vehicle Linkage Devices (Corrugated Bellow and Apron) |
|    |                                                                    | Carrier, System, Enclosure                            |
|    |                                                                    | Partisi Modular                                       |
|    |                                                                    | Tool, Consumable, dan Fastening                       |
|    |                                                                    | Interior Appointments (Complete Set Table)            |
|    |                                                                    | Monitoring And Safety Equipment (Safety Kit)          |
|    |                                                                    | External Addition                                     |
| 14 | Bogie Machining                                                    | Wheel Set                                             |
|    |                                                                    | Raw Material                                          |
|    |                                                                    | Axle Box Assy                                         |
|    |                                                                    | Primary Suspension Assy                               |
|    |                                                                    | Swing Bolster Device                                  |
|    |                                                                    | Brake Gear                                            |
|    |                                                                    | Pin & Washer                                          |
|    |                                                                    | Bush                                                  |
|    |                                                                    | Connecting Rod Sub Assy                               |
|    |                                                                    | Bottom Rod Safety Support Sub Assy                    |
|    |                                                                    | Brake Lever Sub Assy                                  |
|    |                                                                    | Wearing Plate Assy                                    |
|    |                                                                    | Dead Lever Support Sub Assy                           |
|    |                                                                    | Center Pin Sub Assy                                   |
|    |                                                                    | Rubber For Side Bearer                                |
|    |                                                                    | Brake Support Sub Assy                                |
| 15 | Boogie Casting                                                     | Side Frame Assy                                       |
|    |                                                                    | Bolster Assy                                          |
|    |                                                                    | Wheel Set Assy                                        |
|    |                                                                    | Center Plate Assy                                     |
|    |                                                                    | Secondary Dumping Assy                                |

|    |                                                      |                                    |
|----|------------------------------------------------------|------------------------------------|
|    |                                                      | Side Bearer Housing Assy           |
|    |                                                      | Connecting Rod Sub Assy            |
|    |                                                      | Bottom Rod Safety Support Sub Assy |
|    |                                                      | Brake Lever Sub Assy               |
|    |                                                      | Wearing Plate Assy                 |
|    |                                                      | Dead Lever Support Sub Assy        |
|    |                                                      | Center Pin Sub Assy                |
|    |                                                      | Rubber For Side Bearer             |
|    |                                                      | Brake Support Sub Assy             |
| 16 | Kursi Kereta Revolving<br>Ekonomi                    | Hollow                             |
|    |                                                      | Mild Steel                         |
|    |                                                      | ABS Sheet                          |
| 17 | Kursi Kereta Revolving<br>Eksekutif                  | Hollow                             |
|    |                                                      | Mild Steel                         |
|    |                                                      | ABS Sheet                          |
| 18 | Kursi Kereta Reversible (Kursi<br>Kereta Kerakyatan) | Hollow                             |
|    |                                                      | Mild Steel                         |
|    |                                                      | ABS Sheet                          |
| 19 | Kursi Kereta Revolving<br>Luxury                     | Hollow                             |
|    |                                                      | Mild Steel                         |
|    |                                                      | ABS Sheet                          |
| 20 | Sidewall Panel                                       | ABS Sheet                          |
| 21 | Ceiling Panel                                        | ABS Sheet                          |
| 22 | Carbon Brush                                         | Carbon                             |
|    |                                                      | Kabel                              |
|    |                                                      | Terminal                           |
|    |                                                      | Plat                               |
|    |                                                      | Pegas / Spring                     |
|    |                                                      | Isolasi                            |
|    |                                                      | Ring                               |
|    |                                                      | Cover Atas (Karet/ Komposit)       |
|    |                                                      | Material Aditif                    |
| 23 | Carbon Contact Strip                                 | Carbon                             |
|    |                                                      | Aluminium                          |
|    |                                                      | Plat                               |
|    |                                                      | Baut                               |
|    |                                                      | Adhesive                           |
| 24 | Carbon Contact Tip                                   | Tembaga                            |
|    |                                                      | Perak                              |
| 25 | Carbon Brush Holder                                  | Kuningan                           |
|    |                                                      | Stainless Steel                    |
|    |                                                      | Isolator                           |
|    |                                                      | Pegas / Spring                     |
| 26 | Mechanical Carbon                                    | Carbon                             |
|    |                                                      | Material Aditif                    |

**13. 30300 – Industri Pesawat Terbang Dan Perlengkapannya**

| No | Jenis Barang                    | Uraian Komponen Utama                                |
|----|---------------------------------|------------------------------------------------------|
| 1  | Pesawat Udara Tanpa Awak (PUTA) | Airframe (Body & Frame)                              |
|    |                                 | Battery                                              |
|    |                                 | Landing Gear / Skid                                  |
|    |                                 | Fasteners & Mechanical Hardware                      |
|    |                                 | Flight Controller (FC)                               |
|    |                                 | Motor / Propulsion unit                              |
|    |                                 | Propeller                                            |
|    |                                 | Electronic Speed Controller (ESC)                    |
|    |                                 | Power Distribution & Regulation                      |
|    |                                 | Basic Navigation Sensors (IMU / Compass / Altimeter) |
|    |                                 | GNSS Receiver                                        |
|    |                                 | Data / Telemetry Module                              |
|    |                                 | Antenna                                              |
|    |                                 | Remote Control (RC)                                  |
|    |                                 | Wiring Harness & Connectors                          |
|    |                                 | Flight Mission Software                              |
|    |                                 | Transport Box                                        |
|    |                                 | Equipment Khusus                                     |
| 2  | Pesawat Udara Propeller         | Engine                                               |
|    |                                 | Airframe                                             |
|    |                                 | Navigation System                                    |
|    |                                 | Landing Gear                                         |
|    |                                 | Indicating / Recording System                        |
|    |                                 | Communications System                                |
|    |                                 | Fuel System                                          |
|    |                                 | Flight Controls System                               |
|    |                                 | Propellers                                           |
|    |                                 | Equipment / Furnishings /Interior                    |
|    |                                 | Electrical Power System                              |
|    |                                 | Hydraulic Power System                               |
|    |                                 | Engine Control                                       |
|    |                                 | Lighting                                             |
|    |                                 | Air Conditioning                                     |
|    |                                 | Fire Protection                                      |
|    |                                 | Oxygen System                                        |
|    |                                 | Ice And Rain Protection / Wind Shield Transparency   |
|    |                                 | Power Plant                                          |
|    |                                 | Engine Indicating                                    |
|    |                                 | Oil                                                  |
| 3  | Helikopter                      | Engines & Gearbox (Transmission)                     |
|    |                                 | Airframe                                             |
|    |                                 | Avionics & Electrical                                |
|    |                                 | Main Rotor System                                    |
|    |                                 | Flight Controls & Hydraulics                         |
|    |                                 | Interior & Furnishings                               |

|  |  |                    |
|--|--|--------------------|
|  |  | Tail Rotor & Drive |
|  |  | Fuel System        |
|  |  | Landing Gear       |

**14. 30911 – Industri Sepeda Motor Roda Dua Dan Tiga**

| No | Jenis Barang | Uraian Komponen Utama             |
|----|--------------|-----------------------------------|
| 1  | Sepeda Motor | <b>Frame Body</b>                 |
|    |              | Main Frame                        |
|    |              | Bracket                           |
|    |              | Rear / Front Fender               |
|    |              | Body Cover                        |
|    |              | Main / Side Stand                 |
|    |              | Fuel / Oil Tank                   |
|    |              | Seat Assy                         |
|    |              | <b>Engine &amp; Transmission</b>  |
|    |              | Crank Case R/L                    |
|    |              | Cylinder Assy                     |
|    |              | Crank Shaft Comp                  |
|    |              | Piston & Ring Piston              |
|    |              | Clutch Comp                       |
|    |              | Gear & Transmission / CVT         |
|    |              | Oil Pump                          |
|    |              | Camshaft & Valve Assy             |
|    |              | Generator                         |
|    |              | Muffler / Exhaust Emission        |
|    |              | Carburettor / Injector            |
|    |              | <b>Electrical Instrument</b>      |
|    |              | Battery                           |
|    |              | Ignition Coil Set / CDI           |
|    |              | Wire Harness                      |
|    |              | Head Lamp                         |
|    |              | Tail Lamp                         |
|    |              | Others Lamp                       |
|    |              | Speedometer Set                   |
|    |              | Switches                          |
|    |              | Horn                              |
|    |              | Rectifier Regulator               |
|    |              | <b>Wheel, Axle and Suspension</b> |
|    |              | Tire & Tube                       |
|    |              | Wheel Front / Rear                |
|    |              | Front / Rear Absorber             |
|    |              | Arm Swing                         |
|    |              | <b>Brake System</b>               |
|    |              | Caliper Assy Set                  |
|    |              | Brake Pedal / Lever               |
|    |              | Pad Assy / Brake Shoe             |
|    |              | Brake Disk / Lining               |
|    |              | <b>Steering System</b>            |
|    |              | Steering Handle                   |
|    |              | Steering System                   |

|   |                        |                                |
|---|------------------------|--------------------------------|
|   |                        | Back Mirror                    |
|   |                        | <b>Others</b>                  |
|   |                        | Sensors                        |
|   |                        | Emblems                        |
|   |                        | Stickers                       |
|   |                        | Others Bracket                 |
| 2 | Sepeda Motor Listrik   | Rangka                         |
|   |                        | Bodi                           |
|   |                        | Baterai                        |
|   |                        | Sistem Penggerak Motor Listrik |
|   |                        | Sistem Kemudi                  |
|   |                        | Sistem Pengereman              |
|   |                        | Roda (Wheel)                   |
|   |                        | Gardan (Axle)                  |
|   |                        | Sistem Elektronik              |
| 3 | Sepeda Motor Roda Tiga | Suspensi                       |
|   |                        | Chasis                         |
|   |                        | Engine                         |
|   |                        | Transmisi                      |
|   |                        | Bak Pengangkut                 |
|   |                        | Gasoline Tank                  |
|   |                        | Elektrik System                |
|   |                        | Tire And Wheel Assy            |
|   |                        | Battery                        |
| 4 | Karoseri Becak Motor   | Frame / Rangka                 |
|   |                        | Kabin Penumpang                |
|   |                        | Jok / Kursi Penumpang          |
|   |                        | Atap                           |
|   |                        | Wheel Set / Roda               |
|   |                        | Tirai / Terpal Penutup         |

**15. 30912 – Industri Komponen Dan Perlengkapan Sepeda Motor Roda Dua Dan Tiga**

| No | Jenis Barang                                                                                                                                       | Uraian Komponen Utama |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1  | Pelek Aluminium                                                                                                                                    | Aluminium Ingot       |
|    |                                                                                                                                                    | Scrap Aluminium       |
|    |                                                                                                                                                    | Coating / Cat         |
| 2  | Forging steel untuk kendaraan bermotor: gear, connecting rod, crankshaft, camshaft, dan komponen kendaraan bermotor lainnya dari forging steel     | Billet Baja           |
|    |                                                                                                                                                    | Roundbar Baja         |
|    |                                                                                                                                                    | Consumables           |
| 3  | Machining steel untuk kendaraan bermotor: gear, connecting rod, crankshaft, camshaft, dan komponen kendaraan bermotor lainnya dari machining steel | Forging Steel         |
| 4  | Machining assy untuk kendaraan bermotor: gear, connecting rod, crankshaft,                                                                         | Forging Steel         |

|   |                                                                       |                 |
|---|-----------------------------------------------------------------------|-----------------|
|   | camshaft, dan komponen kendaraan bermotor lainnya dari machining assy | Fastener        |
| 5 | Muffler Blank                                                         | Plat Baja       |
|   |                                                                       | Consumable      |
| 6 | Pelek Baja                                                            | Disk / Piringan |
|   |                                                                       | Rim / Lingkar   |
|   |                                                                       | Side Ring       |
| 7 | Radiator Assy                                                         | Brass Strip     |
|   |                                                                       | Brass Sheet     |
|   |                                                                       | Copper          |
|   |                                                                       | Steel Plate     |
|   |                                                                       | Painting        |
|   |                                                                       | Consumable      |

**16. 30921 – Industri Sepeda Dan Kursi Roda Termasuk Becak**

| No | Jenis Barang | Uraian Komponen Utama            |
|----|--------------|----------------------------------|
| 1  | Sepeda       | Frame / Rangka                   |
|    |              | Fork / Garpu                     |
|    |              | Steering Parts / Kendali Kemudi  |
|    |              | Drive Train / Sistem Transmisi   |
|    |              | Brake System / Sistem Pengereman |
|    |              | Wheel Set / Roda                 |
|    |              | Saddle dan Aksesoris             |
|    |              | Brand / Merk                     |

**17. 30990 – Industri Alat Angkutan Lainnya YTDL**

| No | Jenis Barang                    | Uraian Komponen Utama                                   |
|----|---------------------------------|---------------------------------------------------------|
| 1  | Truk Barang / Hand Truk / Troli | Frame / Rangka                                          |
|    |                                 | Roda / Caster                                           |
|    |                                 | Dek / Alas Beban                                        |
|    |                                 | Brackets / Dudukan Roda                                 |
|    |                                 | Locking Caster / Pengunci Roda                          |
|    |                                 | Handle / Pegangan / Stang Dorong                        |
| 2  | Becak Kayuh                     | Frame / Rangka                                          |
|    |                                 | Fork / Garpu                                            |
|    |                                 | Steering Parts / Kendali Kemudi (Moustache Bar / Stang) |
|    |                                 | Brake System / Sistem Pengereman                        |
|    |                                 | Sistem Penggerak (Crankset, Pedal, Rantai, dan Gigi)    |
|    |                                 | Wheel Set / Roda                                        |
|    |                                 | Saddle Sepeda                                           |
|    |                                 | Kabin Penumpang                                         |
|    |                                 | Jok / Kursi Penumpang                                   |
|    |                                 | Atap                                                    |
| 3  | Kereta / Keranda Jenazah        | Tirai / Terpal Penutup                                  |
|    |                                 | Frame / Rangka                                          |

|   |                                  |                            |
|---|----------------------------------|----------------------------|
|   |                                  | Dek / Alas Beban           |
|   |                                  | Kaki / Alas / Roda         |
|   |                                  | Pegangan                   |
| 4 | Delman / Pedati / Andong / Dokar | Kabin Penumpang            |
|   |                                  | Jok / Kursi Penumpang      |
|   |                                  | Atap                       |
|   |                                  | Wheel Set / Roda           |
|   |                                  | Tali Kekang / Tali Kendali |
|   |                                  | Bangku Kusir / Bangkon     |

D. SEKTOR INDUSTRI ELEKTRONIKA TELEMATIKA

1. 18112 – Industri Percetakan Khusus

| No | Jenis Barang                                                        | Uraian Komponen Utama    |
|----|---------------------------------------------------------------------|--------------------------|
| 1  | Percetakan Khusus Kartu Berpengaman dan Personalisasi Data Variabel | Security Ink             |
|    |                                                                     | Hologram / OVD           |
|    |                                                                     | Variable Data Printing   |
|    |                                                                     | Laser Engraving Material |
|    |                                                                     | Printing Plate/System    |

2. 22209 – Industri Barang Lainnya dari Plastik

| No | Jenis Barang                                                                     | Uraian Komponen Utama           |
|----|----------------------------------------------------------------------------------|---------------------------------|
| 1  | Kartu Plastik Non-Chip (Identity Card, Access Card, Membership Card, Blank Card) | PVC / PET / Polycarbonate Sheet |
|    |                                                                                  | Overlay Film                    |
|    |                                                                                  | Magnetic Stripe                 |
|    |                                                                                  | Adhesive                        |
|    |                                                                                  | Protective Layer                |

3. 26110 – Industri Sel Surya, Panel Surya, dan Inverter Fotovoltaik

| No | Jenis Barang | Uraian Komponen Utama |
|----|--------------|-----------------------|
| 1  | Solar Cell   | Wafer Silikon         |
|    |              | Silver Pasta          |
|    |              | Additif               |

4. 26120 – Industri Semi Konduktor dan Komponen Elektronik Lainnya

| No | Jenis Barang                                         | Uraian Komponen Utama |
|----|------------------------------------------------------|-----------------------|
| 1  | Aluminum Electrolytic Capacitor (Radial Lead Type)   | Electrode Foil        |
|    |                                                      | Sealing Rubber        |
|    |                                                      | Aluminum Case         |
|    |                                                      | Electrolyte           |
|    |                                                      | PET Sleeve            |
| 2  | Aluminum Electrolytic Capacitor (Surface Mount Type) | Electrode Foil        |
|    |                                                      | Sealing Rubber        |
|    |                                                      | Aluminum Case         |
|    |                                                      | Electrolyte           |

|  |           |
|--|-----------|
|  | Chip Base |
|--|-----------|

**5. 26199 – Industri Komponen dan Papan Elektronik Lainnya YTDL**

| No | Jenis Barang                                                                         | Uraian Komponen Utama |
|----|--------------------------------------------------------------------------------------|-----------------------|
| 1  | Komponen Elektronik untuk Kartu Berbasis Chip (Contact, Contactless, Dual Interface) | Secure IC             |
|    |                                                                                      | Chip Processor        |
|    |                                                                                      | Memory Chip           |
|    |                                                                                      | Firmware / Card OS    |
|    |                                                                                      | Cryptographic Module  |
|    |                                                                                      | Encryption Element    |

**6. 26210 – Industri Komputer dan/atau Perakitan Komputer**

| No | Jenis Barang                         | Uraian Komponen Utama                  |
|----|--------------------------------------|----------------------------------------|
| 1  | Komputer Tablet Non Jaringan Seluler | Panel Module                           |
|    |                                      | Camera                                 |
|    |                                      | PCB Module                             |
|    |                                      | Casing                                 |
|    |                                      | FPC                                    |
|    |                                      | Vibration Module                       |
|    |                                      | Speaker & earpiece                     |
|    |                                      | RF / Interconnect Electrical Wire Assy |
|    |                                      | Battery                                |
|    |                                      | Screw                                  |
|    |                                      | Antenna                                |
|    |                                      | Charger                                |
|    |                                      | USB Cable                              |
|    |                                      | Earphone                               |
|    |                                      | Gift Box                               |
|    |                                      | Manual & Warranty Card                 |
| 2  | Komputer Laptop / Notebook           | Label                                  |
|    |                                      | Motherboard                            |
|    |                                      | CPU / Processor                        |
|    |                                      | Memori / RAM                           |
|    |                                      | Drive Penyimpanan                      |
|    |                                      | Display Module                         |
|    |                                      | Baterai                                |
|    |                                      | Keyboard                               |
|    |                                      | Touchpad                               |
|    |                                      | Camera                                 |
|    |                                      | Sistem Pendingin                       |
|    |                                      | Wireless Network Adapter               |
|    |                                      | Body / Cover                           |
|    |                                      | Sub-PCB                                |
| 3  | Komputer Desktop                     | Charger Adaptor                        |
|    |                                      | Packaging                              |
|    |                                      | Motherboard                            |
|    |                                      | CPU / Processor                        |
|    |                                      | Memori / RAM                           |
|    |                                      | Power Supply Unit                      |
|    |                                      | Drive Penyimpanan                      |

|   |                                   |                         |
|---|-----------------------------------|-------------------------|
|   |                                   | Casing                  |
|   |                                   | Sistem Pendingin        |
|   |                                   | Kabel Power             |
|   |                                   | VGA Card                |
|   |                                   | Packaging               |
| 4 | Mini PC                           | Motherboard             |
|   |                                   | CPU                     |
|   |                                   | Memori / RAM            |
|   |                                   | Power Supply Unit       |
|   |                                   | Drive Penyimpanan       |
|   |                                   | Casing                  |
|   |                                   | Sistem Pendingin        |
|   |                                   | Kabel Power             |
|   |                                   | Keyboard                |
|   |                                   | VGA Card                |
| 5 | Komputer All in One               | Packaging               |
|   |                                   | Motherboard             |
|   |                                   | Display Module          |
|   |                                   | Casing                  |
|   |                                   | Processor               |
|   |                                   | Memori/RAM              |
|   |                                   | Drive Penyimpanan       |
|   |                                   | WLAN + Bluetooth Module |
|   |                                   | Sub-PCB                 |
|   |                                   | Kabel                   |
|   |                                   | Power Supply            |
|   |                                   | Camera                  |
|   |                                   | Packaging               |
| 6 | Server                            | Stand Base              |
|   |                                   | Motherboard             |
|   |                                   | CPU                     |
|   |                                   | Memori/RAM              |
|   |                                   | Power Supply Unit       |
|   |                                   | Drive Penyimpanan       |
|   |                                   | Casing                  |
|   |                                   | Sistem Pendingin        |
|   |                                   | Kabel Power             |
|   |                                   | Keyboard                |
|   |                                   | VGA Card                |
|   |                                   | Packaging               |
| 7 | Mesin Kasir / POS (Point of Sale) | Motherboard             |
|   |                                   | CPU                     |
|   |                                   | Memori/RAM              |
|   |                                   | Power Supply Unit       |
|   |                                   | Drive Penyimpanan       |
|   |                                   | Casing                  |
|   |                                   | Sistem Pendingin        |
|   |                                   | Adaptor                 |
|   |                                   | Keyboard                |
|   |                                   | Monitor                 |
|   |                                   | Packaging               |

|    |                                                                                                       |                          |
|----|-------------------------------------------------------------------------------------------------------|--------------------------|
| 8  | Kiosk / Perangkat Interaktif (Anjungan) Layanan Mandiri dengan atau Tanpa Sistem Transaksi Pembayaran | Display Panel            |
|    |                                                                                                       | Speaker                  |
|    |                                                                                                       | Perangkat Konektivitas   |
|    |                                                                                                       | Power Cord / Kabel Power |
|    |                                                                                                       | Bracket                  |
|    |                                                                                                       | Cover / Casing           |
|    |                                                                                                       | Motherboard              |
|    |                                                                                                       | Packaging                |
|    |                                                                                                       | Printer                  |
|    |                                                                                                       | Processor                |
|    |                                                                                                       | Memori / RAM             |
|    |                                                                                                       | Drive Penyimpanan        |
|    |                                                                                                       | Reader / Scanner         |
|    |                                                                                                       | Perangkat Aktuator       |
|    |                                                                                                       | Operating System (OS)    |
|    |                                                                                                       | Perangkat Lunak Aplikasi |
| 9  | Interactive Flat Panel Display / Smartboard                                                           | Motherboard              |
|    |                                                                                                       | Display Panel            |
|    |                                                                                                       | Power Supply             |
|    |                                                                                                       | Sub-PCB                  |
|    |                                                                                                       | Perangkat Konektivitas   |
|    |                                                                                                       | Sistem Pendingin         |
|    |                                                                                                       | Wire                     |
|    |                                                                                                       | Bracket                  |
|    |                                                                                                       | Speaker                  |
|    |                                                                                                       | Camera                   |
|    |                                                                                                       | Power Cord / Kabel Power |
|    |                                                                                                       | Casing/Frame             |
|    |                                                                                                       | Remote                   |
|    |                                                                                                       | Packaging                |
|    |                                                                                                       | Processor                |
|    |                                                                                                       | Memori / RAM             |
|    |                                                                                                       | Drive Penyimpanan        |
|    |                                                                                                       | Operating System (OS)    |
|    |                                                                                                       | Perangkat Lunak Aplikasi |
| 10 | Digital Signage                                                                                       | Motherboard              |
|    |                                                                                                       | Display Panel            |
|    |                                                                                                       | Speaker                  |
|    |                                                                                                       | Perangkat Konektivitas   |
|    |                                                                                                       | Power Cord / Kabel Power |
|    |                                                                                                       | Cover (Casing)           |
|    |                                                                                                       | Bracket                  |
|    |                                                                                                       | Packaging                |
|    |                                                                                                       | Processor                |
|    |                                                                                                       | Memori / RAM             |
|    |                                                                                                       | Drive Penyimpanan        |
|    |                                                                                                       | Operating System (OS)    |
|    |                                                                                                       | Perangkat Lunak Aplikasi |

7. 26220 – Industri Perlengkapan Komputer

| No | Jenis Barang                | Uraian Komponen Utama |
|----|-----------------------------|-----------------------|
| 1  | Smart Card Reader / e - KTP | Upper Case            |

|   |                            |                                          |
|---|----------------------------|------------------------------------------|
|   | Reader                     | Back Cover                               |
|   |                            | SAM Cover                                |
|   |                            | Packaging                                |
|   |                            | Plastik Frame                            |
|   |                            | ADF Motor                                |
|   |                            | Sensor – CIS R                           |
|   |                            | Sensor – CIS F                           |
|   |                            | Top Cover                                |
|   |                            | Base Cover                               |
|   |                            | AC Adaptor                               |
|   |                            | AC Cable E                               |
|   |                            | AC Cable UK                              |
|   |                            | USB - Cable                              |
|   |                            |                                          |
| 2 | Proyektor                  | Optical Engine                           |
|   |                            | Main Board                               |
|   |                            | Lamp Housing                             |
|   |                            | Power Supply Ballast                     |
|   |                            | Case Unit                                |
|   |                            | Fan                                      |
|   |                            | Filter Board                             |
|   |                            | HDMI Cable                               |
|   |                            | Remote Controller                        |
|   |                            | Power Cable                              |
|   |                            | Speaker                                  |
|   |                            | Frame                                    |
|   |                            | Air Filter                               |
|   |                            | Screw                                    |
|   |                            | Harness FFC                              |
|   |                            | Packaging                                |
| 3 | Printer Inkjet Multifungsi | Automatic Document Feeder Unit           |
|   |                            | Scanner Unit                             |
|   |                            | Panel Unit                               |
|   |                            | Mainboard Assy                           |
|   |                            | Print Head Unit                          |
|   |                            | Print Head Motion Unit                   |
|   |                            | Frame Main                               |
|   |                            | Belt Unit                                |
|   |                            | Duplex Upper Assy                        |
|   |                            | Multi-Purpose Tray Unit                  |
|   |                            | Power Supply Unit                        |
|   |                            | Pick Up Unit / Roller Kertas             |
|   |                            | Cassette Unit                            |
|   |                            | Ink System Unit                          |
|   |                            | Maintenance Box                          |
|   |                            | Wipper Assy                              |
|   |                            | Packaging                                |
| 4 | Document Scanner           | Contact Image Sensor Module / CCD Module |
|   |                            | PCB Module                               |
|   |                            | Panel Module                             |

|   |                                                 |                  |
|---|-------------------------------------------------|------------------|
|   |                                                 | Motor Penggerak  |
|   |                                                 | AC Adapter       |
|   |                                                 | Casing           |
|   |                                                 | USB Cable        |
|   |                                                 | Glass            |
|   |                                                 | Timing Belt      |
|   |                                                 | Screw            |
|   |                                                 | Packaging        |
| 5 | Colour Inkjet Printer Single Function (Printer) | Mechanism Unit   |
|   |                                                 | Duplex Unit      |
|   |                                                 | Print Head       |
|   |                                                 | PCB Module       |
|   |                                                 | Ink System Unit  |
|   |                                                 | Cassette Unit    |
|   |                                                 | Panel Unit       |
|   |                                                 | Ink Cartridge    |
|   |                                                 | Housing          |
|   |                                                 | Harness          |
|   |                                                 | Motor            |
|   |                                                 | Power Supply     |
|   |                                                 | Power Cable      |
|   |                                                 | USB Cable        |
|   |                                                 | Screw            |
| 6 | Large Format Printer Single Function            | Packaging        |
|   |                                                 | Cutter Assy      |
|   |                                                 | Metal Part       |
|   |                                                 | Plastic Part     |
|   |                                                 | Print Head       |
|   |                                                 | Spindle Assy     |
|   |                                                 | PCB Modul        |
|   |                                                 | Ink System Unit  |
|   |                                                 | Panel Unit       |
|   |                                                 | Power Supply     |
|   |                                                 | Motor Assy       |
|   |                                                 | Ink Cartridge    |
|   |                                                 | Stand Unit       |
|   |                                                 | Housing / Casing |
|   |                                                 | Power Cable      |
| 7 | Large Format Printer Multifunction              | Roller           |
|   |                                                 | Harness          |
|   |                                                 | Screw            |
|   |                                                 | Packaging        |
|   |                                                 | Cutter Assy      |
|   |                                                 | Metal Part       |
|   |                                                 | Plastic Part     |
|   |                                                 | Print Head       |
|   |                                                 | Spindle Assy     |
|   |                                                 | PCB Modul        |
|   |                                                 | Ink System Unit  |
|   |                                                 | Panel Unit       |
|   |                                                 | Power Supply     |

|    |                             |                              |
|----|-----------------------------|------------------------------|
|    |                             | Motor Assy                   |
|    |                             | Scanner Unit                 |
|    |                             | Inkcartridge                 |
|    |                             | Stand Unit                   |
|    |                             | Housing / Casing             |
|    |                             | Power Cable                  |
|    |                             | Roller                       |
|    |                             | Harness                      |
|    |                             | Screw                        |
|    |                             | Packaging                    |
| 8  | Printer Dot Matrix          | Mechanism Unit               |
|    |                             | Print Head                   |
|    |                             | Motor                        |
|    |                             | PCB Modul                    |
|    |                             | Power Cable                  |
|    |                             | Casing Part                  |
|    |                             | Metal Part                   |
|    |                             | Plastic Part                 |
|    |                             | Shaft                        |
|    |                             | Roller                       |
|    |                             | Timing Belt                  |
|    |                             | Harness                      |
|    |                             | Packaging                    |
|    |                             | Screw                        |
| 9  | Printer Passbook Tinta      | Print Head                   |
|    |                             | PCB Modul (Board & Detector) |
|    |                             | Ink Cartridge                |
|    |                             | Ink System Unit              |
|    |                             | Metal Part                   |
|    |                             | Plastic Part                 |
|    |                             | Power Cable                  |
|    |                             | Panel Unit                   |
|    |                             | Timing Belt                  |
|    |                             | Tube                         |
|    |                             | PAD (Porous)                 |
|    |                             | Roller                       |
|    |                             | Harness                      |
|    |                             | Screw                        |
| 10 | Printer Passbook Dot Matrix | Print Head                   |
|    |                             | PCB Modul (Board & Detector) |
|    |                             | Pita Cartridge               |
|    |                             | Paper Cutting System         |
|    |                             | Metal Part                   |
|    |                             | Plastic Part                 |
|    |                             | Power Cable                  |
|    |                             | Panel Unit                   |
|    |                             | Timing Belt                  |
|    |                             | Roller                       |
|    |                             | Harness                      |

|    |                      |                                      |
|----|----------------------|--------------------------------------|
|    |                      | Screw                                |
|    |                      | Shaft                                |
|    |                      | Packaging                            |
| 11 | Printer Colour Label | Print Head                           |
|    |                      | Mainboard                            |
|    |                      | Frame                                |
|    |                      | Motors                               |
|    |                      | Power Supply Unit                    |
|    |                      | Ink Cartridge                        |
|    |                      | Paper Cutting System                 |
|    |                      | Platen Unit                          |
|    |                      | Maintenance Box                      |
|    |                      | Carriage Unit                        |
|    |                      | Housing                              |
|    |                      | Paper Guide Unit                     |
|    |                      | Panel Unit                           |
|    |                      | Ink Holder Assy                      |
|    |                      | Ink Supply Unit                      |
|    |                      | Shaft                                |
|    |                      | Harness                              |
|    |                      | Screws                               |
|    |                      | Packaging                            |
| 12 | Scanner              | Control PCBA                         |
|    |                      | Plastik Frame                        |
|    |                      | ADF Motor                            |
|    |                      | Sensor - CIS R                       |
|    |                      | Sensor - CIS F                       |
|    |                      | Top Cover                            |
|    |                      | Base Cover                           |
|    |                      | AC Adaptor                           |
|    |                      | AC Cable E                           |
|    |                      | AC Cable UK                          |
|    |                      | USB - Cable                          |
|    |                      | Packaging                            |
| 13 | Laser Printer        | Front Offset Shaft                   |
|    |                      | Insulation Sheet                     |
|    |                      | Spring                               |
|    |                      | Kabel Power                          |
|    |                      | Fan                                  |
|    |                      | High Voltage-Main Control Connection |
|    |                      | Low Voltage-Main Control Line B      |
|    |                      | Printer Tape                         |
|    |                      | Cover                                |
|    |                      | Main Bracket Unit                    |
|    |                      | Scan Unit                            |
|    |                      | Double-Sided Pallet Assembly Unit    |
|    |                      | Cassette Unit                        |
|    |                      | Main Control Unit                    |
|    |                      | Fastener                             |
|    |                      | Packaging                            |
| 14 | Thermal Printer      | Mainboard                            |

|    |                            |                   |
|----|----------------------------|-------------------|
|    |                            | Cutter            |
|    |                            | Printer Head      |
|    |                            | Kabel Power       |
|    |                            | Adaptor           |
|    |                            | USB Kabel         |
|    |                            | Function Board    |
|    |                            | Paper Sensor Set  |
| 15 | Monitor / Monitor Komputer | Mainboard         |
|    |                            | Display Module    |
|    |                            | Back Cover        |
|    |                            | Front Cover       |
|    |                            | Bracket           |
|    |                            | Kabel Power       |
|    |                            | Wire              |
|    |                            | Power Supply Unit |
|    |                            | Fastener          |
|    |                            | Packaging         |

**8. 26310 - Industri Peralatan Telepon dan Faksimili**

| No | Jenis Barang | Uraian Komponen Utama |
|----|--------------|-----------------------|
| 1  | Jack Telepon | Cover                 |
|    |              | Terminal              |

**9. 26320 – Industri Peralatan Komunikasi Tanpa Kabel (Wireless)**

| No | Jenis Barang                                                                                           | Uraian Komponen Utama                  |
|----|--------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1  | Smartphone, Telepon Seluler<br>Lainnya kecuali Telepon<br>Satelit, Komputer Tablet<br>Jaringan Seluler | Panel Module                           |
|    |                                                                                                        | Camera                                 |
|    |                                                                                                        | PCB Module                             |
|    |                                                                                                        | Casing                                 |
|    |                                                                                                        | FPC                                    |
|    |                                                                                                        | Vibration Module                       |
|    |                                                                                                        | Speaker & earpiece                     |
|    |                                                                                                        | RF / Interconnect Electrical Wire Assy |
|    |                                                                                                        | Battery                                |
|    |                                                                                                        | Screw                                  |
|    |                                                                                                        | Antenna                                |
|    |                                                                                                        | Charger                                |
|    |                                                                                                        | USB Cable                              |
|    |                                                                                                        | Earphone                               |
|    |                                                                                                        | Gift Box                               |
| 2  | Base Band Unit (BBU)                                                                                   | Manual & Warranty Card                 |
|    |                                                                                                        | Label                                  |
|    |                                                                                                        | Top Cover                              |
|    |                                                                                                        | Bottom Cover                           |
|    |                                                                                                        | Module Socket                          |
|    |                                                                                                        | Base Band Processing                   |
|    |                                                                                                        | Main Processing Terminal               |
| 3  | Radio Remote Unit (RRU)                                                                                | Power Module Terminal                  |
|    |                                                                                                        | Fan Module Terminal                    |
|    |                                                                                                        | Filter Module                          |
|    |                                                                                                        | Duplexer Module                        |

|   |                              |                        |
|---|------------------------------|------------------------|
|   |                              | Handle                 |
|   |                              | Bracket                |
|   |                              | Cover                  |
|   |                              | Socket Cap             |
|   |                              | RRU Commutator         |
|   |                              | Anti Dismantle PET     |
| 4 | Active Antenna Unit (AAU)    | Antenna Tilter         |
|   |                              | Power Connector        |
|   |                              | Antenna MIMO Board     |
|   |                              | Radio Board            |
|   |                              | Socket Separator       |
|   |                              | Antenna Pin            |
|   |                              | AAU Pole Fix Kit       |
|   |                              | AAU Tilt Bracket       |
|   |                              | AAU Radome             |
|   |                              | AAU Cabinet Assy       |
|   |                              | Air Cooler Fins        |
| 5 | Transport WDM                | Top Cover              |
|   |                              | Bottom Cover           |
|   |                              | Connector Module       |
|   |                              | Main Processing Module |
|   |                              | Fan Module             |
| 6 | Router                       | Top Cover              |
|   |                              | Bottom Cover           |
|   |                              | Connector Module       |
|   |                              | Routing Module         |
|   |                              | Main Processing Module |
|   |                              | Monitor and Fan Module |
| 7 | Switch                       | Top Cover              |
|   |                              | Bottom Cover           |
|   |                              | Connector Module       |
|   |                              | Switching Module       |
|   |                              | Main Processing Module |
|   |                              | Fan Module             |
| 8 | Microwave ODU (Outdoor Unit) | Top Cover              |
|   |                              | Bottom Cover           |
|   |                              | RF Board               |
|   |                              | Filter Board           |
| 9 | Microwave IDU (Indoor Unit)  | Top Cover              |
|   |                              | Bottom Cover           |
|   |                              | IF Board               |
|   |                              | Main Processing Board  |
|   |                              | Power Module Terminal  |
|   |                              | Fan Module Terminal    |

**10. 26391 – Industri Kartu Cerdas (Smart Card)**

| No | Jenis Barang                                                                           | Uraian Komponen Utama |
|----|----------------------------------------------------------------------------------------|-----------------------|
| 1  | Kartu Cerdas (Smart Card),<br>SIM Card, Embedded SIM<br>(eSIM), Secure Processing Card | Lembaran Plastik PVC  |
|    |                                                                                        | Overlay Film          |
|    |                                                                                        | Tinta                 |

|  |  |                        |
|--|--|------------------------|
|  |  | Magnetic Stripe        |
|  |  | Sign Panel             |
|  |  | Chip Module            |
|  |  | Wire / Antenna / Inlay |

**11. 26399 – Industri Peralatan Komunikasi Lainnya**

| No | Jenis Barang              | Uraian Komponen Utama    |
|----|---------------------------|--------------------------|
| 1  | Base Band Unit (BBU)      | Top Cover                |
|    |                           | Bottom Cover             |
|    |                           | Module Socket            |
|    |                           | Base Band Processing     |
|    |                           | Main Processing Terminal |
|    |                           | Power Module Terminal    |
|    |                           | Fan Module Terminal      |
| 2  | Radio Remote Unit (RRU)   | Filter Module            |
|    |                           | Duplexer Module          |
|    |                           | Handle                   |
|    |                           | Bracket                  |
|    |                           | Cover                    |
|    |                           | Socket Cap               |
|    |                           | RRU Commutator           |
|    |                           | Anti Dismentle PET       |
| 3  | Active Antenna Unit (AAU) | Antenna Tilter           |
|    |                           | Power Connector          |
|    |                           | Antenna MIMO Board       |
|    |                           | Radio Board              |
|    |                           | Socket Separator         |
|    |                           | Antenna Pin              |
|    |                           | AAU Pole Fix Kit         |
|    |                           | AAU Tilt Bracket         |
|    |                           | AAU Radome               |
|    |                           | AAU Cabinet Assy         |
|    |                           | Air Cooler Fins          |
| 4  | Transport WDM             | Top Cover                |
|    |                           | Bottom Cover             |
|    |                           | Connector Module         |
|    |                           | Main Processing Module   |
|    |                           | Fan Module               |
| 5  | Router                    | Top Cover                |
|    |                           | Bottom Cover             |
|    |                           | Connector Module         |
|    |                           | Routing Module           |
|    |                           | Main Processing Module   |
|    |                           | Monitor and Fan Module   |
| 6  | Switch                    | Top Cover                |
|    |                           | Bottom Cover             |
|    |                           | Connector Module         |
|    |                           | Switching Module         |
|    |                           | Main Processing Module   |
|    |                           | Fan Module               |

|    |                                |                                                                                                |
|----|--------------------------------|------------------------------------------------------------------------------------------------|
| 7  | Microwave ODU (Outdoor Unit)   | Top Cover                                                                                      |
|    |                                | Bottom Cover                                                                                   |
|    |                                | RF Board                                                                                       |
|    |                                | Filter Board                                                                                   |
| 8  | Microwave IDU (Indoor Unit)    | Top Cover                                                                                      |
|    |                                | Bottom Cover                                                                                   |
|    |                                | IF Board                                                                                       |
|    |                                | Main Processing Board                                                                          |
|    |                                | Power Module Terminal                                                                          |
|    |                                | Fan Module Terminal                                                                            |
| 9  | Digital Compact Fixed Repeater | Rack Soluna                                                                                    |
|    |                                | Trafo                                                                                          |
|    |                                | Power Backup / Accu                                                                            |
|    |                                | Box Trafo                                                                                      |
|    |                                | Box Control                                                                                    |
|    |                                | Reset Modul                                                                                    |
|    |                                | Smart Switch                                                                                   |
|    |                                | Power Distribusi Modul                                                                         |
|    |                                | Label Produk                                                                                   |
|    |                                | Packaging Produk                                                                               |
| 10 | Set Top Box                    | PCBA / Mainboard                                                                               |
|    |                                | Casing                                                                                         |
|    |                                | Remote                                                                                         |
|    |                                | Adaptor / Kabel Power                                                                          |
|    |                                | Packaging                                                                                      |
|    |                                | Kabel HDMI                                                                                     |
| 11 | Indoor Router                  | PCBA                                                                                           |
|    |                                | Bottom Casing                                                                                  |
|    |                                | Top Casing                                                                                     |
|    |                                | Antena                                                                                         |
|    |                                | Kabel                                                                                          |
|    |                                | Adaptor                                                                                        |
|    |                                | Fastener                                                                                       |
|    |                                | Packaging                                                                                      |
| 12 | CCTV / Security Camera         | Camera Module                                                                                  |
|    |                                | Lensa Module                                                                                   |
|    |                                | PCBA (GPU Mobile, Power Supply, SMPS, Tuner Module, Control Module, MCU, Memory, Color Module) |
|    |                                | Transformer                                                                                    |
|    |                                | Wire & Harness                                                                                 |
|    |                                | Casing Assembly                                                                                |
|    |                                | Fastener & Bracket                                                                             |
|    |                                | Karton Box & Inner Packing (EPS)                                                               |

**12. 26410 – Industri Televisi Dan/Atau Perakitan Televisi**

| No | Jenis Barang                     | Uraian Komponen Utama         |
|----|----------------------------------|-------------------------------|
| 1  | Pesawat Televisi / Televisi / TV | Display Module                |
|    |                                  | AC Cord                       |
|    |                                  | Powerboard dan/atau Mainboard |
|    |                                  | Speaker                       |

|   |           |                          |
|---|-----------|--------------------------|
|   |           | Back Cover               |
|   |           | Front Cover              |
|   |           | AV Bracket               |
|   |           | EPS / Inner Packing      |
|   |           | Base Stand               |
|   |           | Remote Control           |
|   |           | Fastener                 |
|   |           | Packaging                |
| 2 | Videotron | Cabinet                  |
|   |           | Power Cord / Kabel Power |
|   |           | Wire                     |
|   |           | LED Model                |
|   |           | Power Supply             |
|   |           | Controller               |
|   |           | Packaging                |

**13. 26490 – Industri Peralatan Audio dan Video Elektronik Lainnya**

| No | Jenis Barang  | Uraian Komponen Utama                                                             |
|----|---------------|-----------------------------------------------------------------------------------|
| 1  | Speaker Aktif | Casing Assy                                                                       |
|    |               | PCBA Module (Mainboard, Switching, Power Supply, Amplifier, Control Panel)        |
|    |               | Loudspeaker                                                                       |
|    |               | Wire                                                                              |
|    |               | Karton Box                                                                        |
|    |               | EPS / Inner Packing                                                               |
|    |               | Fastener                                                                          |
|    |               | Rechargeable Battery (Portable Speaker)                                           |
|    |               | AC Cord                                                                           |
|    |               |                                                                                   |
| 2  | Speaker Pasif | Casing Assy                                                                       |
|    |               | Crossover                                                                         |
|    |               | Loudspeaker                                                                       |
|    |               | Wire                                                                              |
|    |               | Karton Box                                                                        |
|    |               | EPS / Inner Packing                                                               |
|    |               | Fastener                                                                          |
|    |               | Transformator                                                                     |
| 3  | Amplifier     | Casing Assembly                                                                   |
|    |               | PCBA (Power Amplifier, Power Supply, SMPS, Pre Amp, Volume Control, Tone Control) |
|    |               | Knob                                                                              |
|    |               | Wire & Harness                                                                    |
|    |               | AC Cord                                                                           |
|    |               | Transformer                                                                       |
|    |               | Fastener & Bracket                                                                |
|    |               | Foot & Rubber                                                                     |
|    |               | Karton Box & Inner Packing (EPS)                                                  |

|   |                              |                                                                                                                                        |
|---|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Mikropon & Mikropon Wireless | Cartridge (Dynamic, Electret, dll)                                                                                                     |
|   |                              | PCBA (Battery PCB, Pre Amp, Connector PCB, Transmitter PCB, Receiver PCB)                                                              |
|   |                              | Mic Cable                                                                                                                              |
|   |                              | Antenna                                                                                                                                |
|   |                              | Wire & Harness                                                                                                                         |
|   |                              | Casing Assembly                                                                                                                        |
|   |                              | Mic Stand                                                                                                                              |
|   |                              | AC Cord                                                                                                                                |
|   |                              | Transformer                                                                                                                            |
|   |                              | Fastener                                                                                                                               |
|   |                              | Foot & Rubber                                                                                                                          |
|   |                              | Karton Box & Inner Packing (EPS)                                                                                                       |
| 5 | Megaphone                    | Cartridge (Dynamic, Electret, dll)                                                                                                     |
|   |                              | PCBA (Amplifier, Pre Amp, Battery PCB, Connector PCB, Signal PCB)                                                                      |
|   |                              | Knob                                                                                                                                   |
|   |                              | Wire & Harness                                                                                                                         |
|   |                              | Transformer                                                                                                                            |
|   |                              | Casing Assembly                                                                                                                        |
|   |                              | Mic Cable                                                                                                                              |
|   |                              | Fastener                                                                                                                               |
| 6 | PA System                    | Karton Box & Inner Packing (EPS)                                                                                                       |
|   |                              | Casing Assembly                                                                                                                        |
|   |                              | PCBA (Pre Amp, Power Amplifier, Power Supply, SMPS, Control Unit, Relay Unit, Display Module, Voice Module, Relay Module, MCU, Memory) |
|   |                              | Transformer                                                                                                                            |
|   |                              | Knob                                                                                                                                   |
|   |                              | Wire & Harness                                                                                                                         |
|   |                              | AC Cord                                                                                                                                |
|   |                              | Mic Cable                                                                                                                              |
|   |                              | Fastener & Bracket                                                                                                                     |
|   |                              | Transformer                                                                                                                            |
|   |                              | Foot & Rubber                                                                                                                          |
|   |                              | Karton Box & Inner Packing (EPS)                                                                                                       |
| 7 | Conference System            | Cartridge (Dynamic, Electret, dll)                                                                                                     |
|   |                              | PCBA (Pre Amp, Power Amplifier, Power Supply, SMPS, Control Unit, Display Module, MCU, Memory)                                         |
|   |                              | Transformer                                                                                                                            |
|   |                              | Knob                                                                                                                                   |
|   |                              | Wire & Harness                                                                                                                         |
|   |                              | AC Cord                                                                                                                                |
|   |                              | Casing Assembly                                                                                                                        |
|   |                              | Mic Stand                                                                                                                              |
|   |                              | Fastener & Bracket                                                                                                                     |
|   |                              | Transformer                                                                                                                            |

|  |  |                                  |
|--|--|----------------------------------|
|  |  | Foot & Rubber                    |
|  |  | Karton Box & Inner Packing (EPS) |

**14. 26513 – Industri Alat Ukur, Alat Uji, Alat Navigasi dan Alat Kontrol**

| No | Jenis Barang             | Uraian Komponen Utama                         |
|----|--------------------------|-----------------------------------------------|
| 1  | Radar Cuaca              | Antena                                        |
|    |                          | Stator                                        |
|    |                          | Rotor                                         |
|    |                          | Modul Radio Frekuensi                         |
|    |                          | Sistem Penggerak                              |
|    |                          | Wire                                          |
|    |                          | Radar Data Processor                          |
|    |                          | Power Supply                                  |
|    |                          | Radome                                        |
|    |                          | Perangkat Lunak                               |
| 2  | Timbangan Dewasa Digital | Stainless Plate                               |
|    |                          | Top Cover ABS                                 |
|    |                          | Back Drop / Under Cover                       |
| 3  | Timbangan Bayi Digital   | Casing                                        |
|    |                          | Tray                                          |
|    |                          | LCD                                           |
|    |                          | Perangkat Konektivitas                        |
|    |                          | Wire                                          |
|    |                          | Perangkat Lunak Aplikasi                      |
| 4  | Bio Safety Cabinet       | High-Efficiency Particulate Air (HEPA) Filter |
|    |                          | Blower & Motor                                |
|    |                          | Jendela Kaca Depan (Sash)                     |
|    |                          | Alas Area Kerja (Work Surface Base)           |
|    |                          | Lampu UV (Sterilisasi)                        |
|    |                          | Lampu Utama (Penerangan)                      |
|    |                          | Sistem Kontrol (Panel Control)                |
|    |                          | Sistem Alarm / Emergensi                      |
|    |                          | Panel ruangan kerja (Kotak Kerja)             |
|    |                          | Rangka / Struktur Penopang                    |

**15. 26792 – Industri Teropong dan Instrumen Optik Bukan Kaca Mata**

| No | Jenis Barang                  | Uraian Komponen Utama |
|----|-------------------------------|-----------------------|
| 1  | Mikroskop Biologi             | Head                  |
|    |                               | Body                  |
|    |                               | Lensa                 |
|    |                               | Meja / Stage          |
|    |                               | Lampu                 |
|    |                               | Kabel                 |
|    |                               | Power Supply          |
| 2  | Perangkat Digital Mikroskopik | Casing                |
|    |                               | Sensor Kamera         |
|    |                               | Kabel                 |

**16. 27120 – Industri Peralatan Pengontrol dan Pendistribusian Listrik**

| No | Jenis Barang | Uraian Komponen Utama |
|----|--------------|-----------------------|
| 1  | Sakelar      | Handle                |
|    |              | Push Button           |
|    |              | Housing / Body Cover  |
|    |              | Terminal / Konektor   |
|    |              | Kontak Logam          |
| 2  | Kotak Kontak | Cover Housing         |
|    |              | Terminal Kontak Logam |
|    |              | Grounding             |
|    |              | Fastener              |
|    |              | Klem Penahan Kabel    |

**17. 27201 – Industri Batu Baterai**

| No | Jenis Barang                                         | Uraian Komponen Utama           |
|----|------------------------------------------------------|---------------------------------|
| 1  | Lithium Battery untuk Base Transceiver Station (BTS) | Metal Cover                     |
|    |                                                      | Cabinet                         |
|    |                                                      | Separator PVC                   |
|    |                                                      | Lithium Cell                    |
|    |                                                      | Power Cable                     |
|    |                                                      | BMS Board                       |
|    |                                                      | Charging Board                  |
|    |                                                      | BMS Cover                       |
|    |                                                      | Energy Management System        |
|    |                                                      | Alumunium Busbar                |
| 2  | Artificial Graphite                                  | Uncalcined Petroleum Coke       |
| 3  | Lithium Battery Cell                                 | Cathode Active Material         |
|    |                                                      | Anode Active Material           |
|    |                                                      | Copper Foil                     |
|    |                                                      | Electrolyte Solution            |
|    |                                                      | Aluminium Foil                  |
|    |                                                      | Metal Connector (Tab)           |
|    |                                                      | Metal Cap & Can                 |
|    |                                                      | PVC Sleeves                     |
| 4  | Battery Energy Storage System (BESS) - Low Voltage   | Lithium Battery Cell            |
|    |                                                      | BMS (Battery Management System) |
|    |                                                      | Alumunium Busbar                |
|    |                                                      | Connector Output                |
|    |                                                      | Metal Enclosure / Casing        |
|    |                                                      | Power Cable                     |
|    |                                                      | Cable                           |
|    |                                                      | Cabinet Rack                    |
|    |                                                      | IOT Module                      |
| 5  | Lithium Battery Pack                                 | Lithium Battery Cell            |
|    |                                                      | BMS (Battery Management System) |
|    |                                                      | Connector Output                |
|    |                                                      | Enclosure / Casing              |
|    |                                                      | Power Cable                     |
|    |                                                      | Cable                           |
|    |                                                      | Plastic Shrink                  |

|   |                                                         |                                 |
|---|---------------------------------------------------------|---------------------------------|
|   |                                                         | Epoxy Sheet                     |
| 6 | Alkaline & Carbon Zinc Battery for Consumer Electronics | Cathode Active Material         |
|   |                                                         | Anode Active Material           |
|   |                                                         | Electrolyte Solution            |
|   |                                                         | Can                             |
|   |                                                         | Paper / Plastic Separator       |
|   |                                                         | Jacket / Label                  |
|   |                                                         | Sealant                         |
|   |                                                         | Rod / Nail                      |
|   |                                                         | Bottom & Top Plate              |
|   |                                                         | Plastic Cap                     |
|   |                                                         | Packaging                       |
| 7 | BESS (Battery Energy Storage System) – High Voltage     | Lithium Battery Cell            |
|   |                                                         | BMS (Battery Management System) |
|   |                                                         | Alumunium Busbar                |
|   |                                                         | Connector Output                |
|   |                                                         | Metal Enclosure / Casing        |
|   |                                                         | Energy Management System        |
|   |                                                         | Power Cable                     |
|   |                                                         | Cable                           |
| 8 | High Voltage Battery Cluster Control Box                | Cabinet Rack                    |
|   |                                                         | Main Contactor                  |
|   |                                                         | HV Fuse                         |
|   |                                                         | Current & Voltage Sensor        |
|   |                                                         | Temperature Sensor              |
|   |                                                         | Control PCB/MCU                 |

**18. 27310 – Industri Kabel Serat Optik**

| No | Jenis Barang                                      | Uraian Komponen Utama |
|----|---------------------------------------------------|-----------------------|
| 1  | Kabel Tanam Langsung                              | Fiber Core            |
|    |                                                   | Polybutilena (PBT)    |
|    |                                                   | Steel Tape            |
|    |                                                   | HDPE                  |
|    |                                                   | Haspel / Drum Kayu    |
| 2  | Kabel Duct (Dalam Pipa)                           | Fiber Core            |
|    |                                                   | Polybutilena (PBT)    |
|    |                                                   | HDPE                  |
|    |                                                   | Haspel / Drum Kayu    |
| 3  | Kabel Udara F8 (Aerial)                           | Fiber Core            |
|    |                                                   | Polybutilena (PBT)    |
|    |                                                   | Steel Wire            |
|    |                                                   | HDPE                  |
|    |                                                   | Haspel / Drum Kayu    |
| 4  | Kabel Udara All-Dielectric Self Supporting (ADSS) | Fiber Core            |
|    |                                                   | Polybutilena (PBT)    |
|    |                                                   | HDPE                  |
|    |                                                   | Haspel / Drum Kayu    |
| 5  | Kabel Duct Single Core Per Tube (SCPT)            | Fiber Core            |
|    |                                                   | Polybutilena (PBT)    |

|    |                                         |                                  |
|----|-----------------------------------------|----------------------------------|
|    |                                         | HDPE                             |
|    |                                         | Haspel / Drum Kayu               |
| 6  | Kabel Udara Single Core Per Tube (SCPT) | Fiber Core                       |
|    |                                         | Polybutilena (PBT)               |
|    |                                         | Steel Wire                       |
|    |                                         | HDPE                             |
|    |                                         | Haspel / Drum Kayu               |
| 7  | Kabel Udara (Drop Core)                 | Fiber Core                       |
|    |                                         | Steel Wire                       |
|    |                                         | HDPE                             |
|    |                                         | Haspel / Drum Kayu               |
| 8  | Kabel Duct (Drop Core)                  | Fiber Core                       |
|    |                                         | HDPE                             |
|    |                                         | Haspel / Drum Kayu               |
| 9  | Kabel Laut (Sub Marine)                 | Fiber Core                       |
|    |                                         | Polybutilena (PBT)               |
|    |                                         | Steel Wire                       |
|    |                                         | HDPE                             |
|    |                                         | Haspel / Drum Kayu               |
| 10 | Fiber Optik/Serat Optik                 | Preform                          |
|    |                                         | Bahan Pelapis / Coating          |
|    |                                         | Haspel / Bobbin Plastik          |
|    |                                         | Polyester Tape / Selubung Bobbin |
|    |                                         | Packaging                        |

**19. 27330 – Industri Perlengkapan Kabel**

| No | Jenis Barang                                           | Uraian Komponen Utama   |
|----|--------------------------------------------------------|-------------------------|
| 1  | Konektor Piercing / Tap Konektor                       | Biji Plastik PP Trilene |
|    |                                                        | Mur Baut                |
|    |                                                        | Plat Kuningan           |
|    |                                                        | Grease                  |
| 2  | Konektor Pita                                          | Alumunium               |
|    |                                                        | Rubber Tape             |
|    |                                                        | Mastic Tape             |
|    |                                                        | Kabel Ties              |
|    |                                                        | Grease                  |
| 3  | Semiconductor Coated Insulator Plastic Ties / Top Ties | Biji Plastic PP Trilene |
| 4  | Konektor Tembus Kedap Air                              | Thermoplastik           |
|    |                                                        | Gigi Penerus Arus       |
|    |                                                        | Rubber                  |
|    |                                                        | Baut & Mur              |
|    |                                                        | Ring                    |
|    |                                                        | Kepala Baut             |
| 5  | Live Line Connector                                    | Aluminium Billet        |
|    |                                                        | Aluminium Scrap         |
|    |                                                        | Chip                    |
|    |                                                        | Iron                    |
|    |                                                        | Leaf Spring             |

|    |                                                                         |                       |
|----|-------------------------------------------------------------------------|-----------------------|
| 6  | Klem Kabel Pilin Berbadan Isolasi                                       | Thermoplastik         |
|    |                                                                         | Kawat                 |
| 7  | Segel Plastik Putar                                                     | Acrillic              |
|    |                                                                         | Wire Stainless        |
| 8  | Konektor Pres Kedap Air Berinsulasi Pita                                | Aluminium Billet      |
|    |                                                                         | Plastic               |
|    |                                                                         | Cable Ties            |
|    |                                                                         | Pita Insulasi         |
| 9  | Lengkapan Sambungan Udara Tegangan Tinggi - Single Suspension Stringset | Aluminium Ingot       |
|    |                                                                         | Shackle               |
|    |                                                                         | Ball Eye              |
|    |                                                                         | Double Arcing Horn    |
|    |                                                                         | Socket Clevis         |
|    |                                                                         | Yoke Plate            |
|    |                                                                         | Connector             |
|    |                                                                         | Armor Rods            |
| 10 | Lengkapan Sambungan Udara Tegangan Tinggi - Double Suspension Stringset | Aluminium Ingot       |
|    |                                                                         | Twisted Double Clevis |
|    |                                                                         | Extension Link        |
|    |                                                                         | Ball Clevis           |
|    |                                                                         | Arcing Horn           |
|    |                                                                         | Socket Clevis         |
|    |                                                                         | Yoke Plate            |
|    |                                                                         | Connector             |
|    |                                                                         | Armor Rods            |
| 11 | Lengkapan Sambungan Udara Tegangan Tinggi - Single Tension Stringset    | Aluminium Tube        |
|    |                                                                         | Aluminium Ingot       |
|    |                                                                         | Anchor                |
|    |                                                                         | Twisted Double Clevis |
|    |                                                                         | Ball Eye              |
|    |                                                                         | Arcing Horn           |
|    |                                                                         | Socket Clevis         |
|    |                                                                         | Yoke Plate            |
|    |                                                                         | Adjustable Link       |
| 12 | Lengkapan Sambungan Udara Tegangan Tinggi - Double Tension Stringset    | Aluminium Tube        |
|    |                                                                         | Aluminium Ingot       |
|    |                                                                         | Anchor                |
|    |                                                                         | Twisted Double Clevis |
|    |                                                                         | Twisted Clevis Tongue |
|    |                                                                         | Ball Clevis           |
|    |                                                                         | Arcing Horn           |
|    |                                                                         | Socket Clevis         |
|    |                                                                         | Yoke Plate            |
| 13 | Lengkapan Sambungan Udara Tegangan Tinggi - Vee Suspension Stringset    | Adjustable Link       |
|    |                                                                         | Aluminium Ingot       |
|    |                                                                         | Extension Link        |
|    |                                                                         | Ball Clevis           |
|    |                                                                         | Single Racket         |
|    |                                                                         | Socket Clevis         |
|    |                                                                         | Yoke Plate            |

|    |                                                                               |                        |
|----|-------------------------------------------------------------------------------|------------------------|
|    |                                                                               | Arcing Ring            |
|    |                                                                               | Twisted Double Clevis  |
|    |                                                                               | Double Eye Link        |
|    |                                                                               | Armor Rods             |
| 14 | Lengkapan Sambungan Udara Tegangan Tinggi - Quad Tension Stringset            | Aluminium Tube         |
|    |                                                                               | Aluminium Ingot        |
|    |                                                                               | Anchor                 |
|    |                                                                               | Twisted Double Clevis  |
|    |                                                                               | Extension Link         |
|    |                                                                               | Adjustable Link        |
|    |                                                                               | Straight Double Clevis |
|    |                                                                               | Yoke Plate             |
|    |                                                                               | Ball Clevis            |
|    |                                                                               | Single Racket          |
|    |                                                                               | Socket Clevis          |
|    |                                                                               | Arcing Ring            |
| 15 | Lengkapan Sambungan Udara Tegangan Tinggi - Single Inverted Tension Stringset | Aluminium Tube         |
|    |                                                                               | Aluminium Ingot        |
|    |                                                                               | Anchor                 |
|    |                                                                               | Twisted Double Clevis  |
|    |                                                                               | Connector              |
|    |                                                                               | Ball Clevis            |
|    |                                                                               | Single Arcing Horn     |
|    |                                                                               | Socket Clevis          |
|    |                                                                               | Yoke Plate             |
|    |                                                                               | Arcing Ring            |
| 16 | Lengkapan Sambungan Udara Tegangan Tinggi – Rigid Spacer                      | Adjustable Extension   |
|    |                                                                               | Aluminium Ingot        |
|    |                                                                               | Body/Arm               |
|    |                                                                               | Bolt + Nut             |
| 17 | Lengkapan Sambungan Udara Tegangan Tinggi – Spacer Damper                     | Spring Washer          |
|    |                                                                               | Aluminium Ingot        |
|    |                                                                               | Aluminium Tube         |
|    |                                                                               | Elastomer              |
|    |                                                                               | Bolt + Nut             |
|    |                                                                               | Flat Washer            |
| 18 | Lengkapan Sambungan Udara Tegangan Tinggi – Vibration Damper                  | Spring Washer          |
|    |                                                                               | Aluminium Ingot        |
|    |                                                                               | Counterweight          |
|    |                                                                               | Messenger Wire         |
|    |                                                                               | Bolt + Nut             |
|    |                                                                               | Flat Washer            |
| 19 | Strain Clamp                                                                  | Spring Washer          |
|    |                                                                               | Aluminium Ingot        |
|    |                                                                               | Bolt + Nut             |
|    |                                                                               | U Bolt + Nut           |
|    |                                                                               | Spring Washer          |
| 20 | All-Dielectric Self Supporting (ADSS) Fitting - Suspension Set                | Flat Washer            |
|    |                                                                               | Shackle                |
|    |                                                                               | Chain Link             |

|    |                                                                  |                          |
|----|------------------------------------------------------------------|--------------------------|
|    | ADSS                                                             | Aluminium Ingot          |
|    |                                                                  | Rubber Insert            |
|    |                                                                  | Armor Rods               |
| 21 | All-Dielectric Self Supporting (ADSS) Fitting - Tension Set ADSS | Shackle                  |
|    |                                                                  | Link                     |
|    |                                                                  | Thimble Clevis           |
|    |                                                                  | Dead End                 |
| 22 | Tension Joint                                                    | Round Tube               |
| 23 | Non Tension Joint                                                | Round Tube               |
| 24 | Konektor Press Kedap Air Berinsulasi Pita                        | Rod Custom Alumunium     |
|    |                                                                  | Cable Ties               |
|    |                                                                  | Isolasi                  |
|    |                                                                  | Mastik                   |
| 25 | Konektor Alur Paralel untuk Penghantar Alumunium                 | Rod Custom Alumunium     |
|    |                                                                  | Isolasi                  |
| 26 | Ties                                                             | PVC Semikonduktor Rod    |
|    |                                                                  | Cable Ties               |
|    |                                                                  | Silica Gel               |
|    |                                                                  | Label / Sticker Produk   |
| 27 | Network Panel Loaded Modular Jack                                | Patch Panel              |
|    |                                                                  | Modular Jack             |
|    |                                                                  | Plugboot                 |
|    |                                                                  | Connector RJ45           |
|    |                                                                  | Cable UTP                |
|    |                                                                  | Fastener                 |
|    |                                                                  | Carton Box               |
| 28 | Optical Terminal Box Rackmount                                   | FO Drawer                |
|    |                                                                  | Splice Tray Cover        |
|    |                                                                  | Splice Tray Hole         |
|    |                                                                  | Protection Sleeve        |
|    |                                                                  | Fastener                 |
|    |                                                                  | Carton Box               |
|    |                                                                  | Selang Nylon             |
|    |                                                                  | Cable                    |
|    |                                                                  | Connector                |
|    |                                                                  | Lem                      |
| 29 | Outlet Data & Voice                                              | Plastik Kemasan          |
|    |                                                                  | Faceplate                |
|    |                                                                  | Modular Jack             |
|    |                                                                  | Plugboot                 |
|    |                                                                  | Connector RJ45           |
|    |                                                                  | Cable UTP                |
|    |                                                                  | Fastener                 |
| 30 | Blok Terminal (Terminal Block)                                   | Packaging                |
|    |                                                                  | Badan (Body) Isolator    |
|    |                                                                  | Terminal                 |
|    |                                                                  | Rail                     |
|    |                                                                  | Penutup (Cover) Terminal |

|    |                                                         |                            |
|----|---------------------------------------------------------|----------------------------|
| 31 | Dudukan / Pendukung Busbar<br>(Busbar Holder / Support) | Badan (Body) Isolator      |
|    |                                                         | Mur Pengikat (Neppel)      |
|    |                                                         | Packaging                  |
| 32 | Kotak Sambung (Junction Box)                            | Badan (Body) Isolator      |
|    |                                                         | Penutup (Cover) Isolator   |
|    |                                                         | Terminal                   |
|    |                                                         | Packaging                  |
| 33 | Sepatu Kabel Tembaga (Copper<br>Cable Lug)              | Pipa Tembaga (Copper Tube) |
|    |                                                         | Pelapis                    |
|    |                                                         | Packaging                  |

**20. 27404 – Industri Industri Lampu LED**

| No | Jenis Barang                            | Uraian Komponen Utama |
|----|-----------------------------------------|-----------------------|
| 1  | Luminer Lampu Jalan Umum                | Driver Module         |
|    |                                         | Housing - Main        |
|    |                                         | LED Module            |
|    |                                         | Housing – Cover       |
|    |                                         | SPD Module            |
|    |                                         | Housing – Glass       |
|    |                                         | Packaging             |
| 2  | Luminer Lampu Jalan Umum<br>Smart       | Driver Module         |
|    |                                         | Housing – Main        |
|    |                                         | LED Module            |
|    |                                         | Smart Controller      |
|    |                                         | Housing – Cover       |
|    |                                         | SPD Module            |
|    |                                         | Housing – Glass       |
| 3  | Luminer Lampu Jalan Umum<br>Solar       | Packaging             |
|    |                                         | Battery               |
|    |                                         | Solar Panel           |
|    |                                         | Housing – Main        |
|    |                                         | LED Module            |
|    |                                         | Charger Controller    |
|    |                                         | Housing – Mounting    |
| 4  | Luminer Lampu Jalan Umum<br>Solar Smart | Packaging             |
|    |                                         | Battery               |
|    |                                         | Solar Panel           |
|    |                                         | Housing – Main        |
|    |                                         | LED Module            |
|    |                                         | Charge Controller     |
|    |                                         | Smart Controller      |
| 5  | Luminer Lampu Sorot                     | Housing – Mounting    |
|    |                                         | Packaging             |
|    |                                         | Driver Module         |
|    |                                         | Housing – Main        |
|    |                                         | LED Module            |
|    |                                         | Housing – Cover       |
|    |                                         | SPD Module            |
|    |                                         | Housing – Glass       |
|    |                                         | Packaging             |

|   |                           |                     |
|---|---------------------------|---------------------|
| 6 | Luminer Lampu Sorot Smart | Driver Module       |
|   |                           | Housing – Main      |
|   |                           | LED Module          |
|   |                           | Smart Controller    |
|   |                           | Housing – Cover     |
|   |                           | SPD Module          |
|   |                           | Housing – Glass     |
|   |                           | Packaging           |
| 7 | Luminer Lampu Taman       | Driver Module       |
|   |                           | Housing – Main      |
|   |                           | LED Module          |
|   |                           | Housing – Cover     |
|   |                           | Packaging           |
| 8 | Luminer Lampu Tanam Smart | Driver Module Smart |
|   |                           | Housing – Main      |
|   |                           | LED Module          |
|   |                           | Housing – Cover     |
|   |                           | Packaging           |
| 9 | Luminer Lampu Portable    | Driver Module       |
|   |                           | Housing – Main      |
|   |                           | LED Module          |
|   |                           | Housing – Cover     |
|   |                           | Housing – Mounting  |
|   |                           | Packaging           |

**21. 27409 – Industri Peralatan Penerangan Lainnya**

| No | Jenis Barang                   | Uraian Komponen Utama |
|----|--------------------------------|-----------------------|
| 1  | Luminer Lampu Jalan Umum       | Driver Module         |
|    |                                | Housing - Main        |
|    |                                | LED Module            |
|    |                                | Housing - Cover       |
|    |                                | SPD Module            |
|    |                                | Housing - Glass       |
|    |                                | Packaging             |
| 2  | Luminer Lampu Jalan Umum Smart | Driver Module         |
|    |                                | Housing - Main        |
|    |                                | LED Module            |
|    |                                | Smart Controller      |
|    |                                | Housing - Cover       |
|    |                                | SPD Module            |
|    |                                | Housing - Glass       |
| 3  | Luminer Lampu Jalan Umum Solar | Packaging             |
|    |                                | Battery               |
|    |                                | Solar Panel           |
|    |                                | Housing - Main        |
|    |                                | LED Module            |
|    |                                | Charger Controller    |
|    |                                | Housing - Mounting    |
|    |                                | Packaging             |

|    |                                      |                        |
|----|--------------------------------------|------------------------|
| 4  | Luminer Lampu Jalan Umum Solar Smart | Battery                |
|    |                                      | Solar Panel            |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Charge Controller      |
|    |                                      | Smart Controller       |
|    |                                      | Housing - Mounting     |
|    |                                      | Packaging              |
| 5  | Luminer Lampu Sorot                  | Driver Module          |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Housing - Cover        |
|    |                                      | SPD Module             |
|    |                                      | Housing - Glass        |
|    |                                      | Packaging              |
| 6  | Luminer Lampu Sorot Smart            | Driver Module          |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Smart Controller       |
|    |                                      | Housing - Cover        |
|    |                                      | SPD Module             |
|    |                                      | Housing - Glass        |
|    |                                      | Packaging              |
| 7  | Luminer Lampu Taman                  | Driver Module          |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Housing - Cover        |
|    |                                      | Packaging              |
| 8  | Luminer Lampu Tanam Smart            | Driver Module Smart    |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Housing - Cover        |
|    |                                      | Packaging              |
| 9  | Luminer Lampu Magun                  | Driver Module          |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Housing - Cover        |
|    |                                      | Packaging              |
| 10 | Luminer Lampu Magun Smart            | Dirver Module Smart    |
|    |                                      | Housing - Main         |
|    |                                      | LED Module             |
|    |                                      | Housing - Cover        |
|    |                                      | Sensor                 |
|    |                                      | Packaging              |
| 11 | Luminer Lampu Magun Solar            | Battery                |
|    |                                      | Solar Panel            |
|    |                                      | Housing - Main         |
|    |                                      | Module - Driver Module |
|    |                                      | Housing - Mounting     |
|    |                                      | Sensor                 |
|    |                                      | Packaging              |

|    |                           |                    |
|----|---------------------------|--------------------|
| 12 | Luminer Lampu Portable    | Driver Module      |
|    |                           | Housing - Main     |
|    |                           | LED Module         |
|    |                           | Housing - Cover    |
|    |                           | Housing - Mounting |
|    |                           | Packaging          |
| 13 | Luminer LED Rantai Cahaya | LED Module         |
|    |                           | Driver Module      |
|    |                           | Kabel              |
|    |                           | Packaging          |
| 14 | Luminer LED Strip         | LED Module         |
|    |                           | Driver Module      |
|    |                           | Kabel              |
|    |                           | Packaging          |
| 15 | Lampu LED Swaballast      | LED Module         |
|    |                           | Driver Module      |
|    |                           | Housing - Main     |
|    |                           | Housing - Lensa    |
|    |                           | Packaging          |
|    |                           | End Cap            |
| 16 | Lampu LED Tube Swaballast | LED Module         |
|    |                           | Driver Module      |
|    |                           | Housing - Main     |
|    |                           | Housing - Lensa    |
|    |                           | Packaging          |
|    |                           | End Cap            |
| 17 | Armatur / Rumah Lampu     | Body Housing       |
|    |                           | Socket / Fitting   |
|    |                           | Cover Lampu        |
|    |                           | Reflektor          |
|    |                           | Packaging          |
|    |                           | Kabel              |

**22. 27510 – Industri Peralatan Listrik Rumah Tangga**

| No | Jenis Barang | Uraian Komponen Utama                       |
|----|--------------|---------------------------------------------|
| 1  | Mesin Cuci   | Body Set                                    |
|    |              | Control Panel Assy                          |
|    |              | AC Cord                                     |
|    |              | Motor Assy                                  |
|    |              | Carton Box                                  |
|    |              | EPS / Inner Packing                         |
|    |              | Fastener                                    |
|    |              | Spin Tub                                    |
| 2  | Dispenser    | Casing Set                                  |
|    |              | Hot Tank Assy (Thermostat, Heater, Bimetal) |
|    |              | Cold Tank Assy                              |
|    |              | AC Cord                                     |
|    |              | Cooling System Assy (Kompresor, Peltier)    |
|    |              | Pump Assy                                   |

|   |         |                     |
|---|---------|---------------------|
|   |         | Switch Controller   |
|   |         | Valve Assy          |
|   |         | Temperature Control |
|   |         | Kondensor           |
|   |         | Carton Box          |
|   |         | EPS / Inner Packing |
|   |         | Wire Harness        |
|   |         | Display Module Set  |
|   |         | Fastener            |
| 3 | Blender | Casing              |
|   |         | AC Cord             |
|   |         | Motor Assy          |
|   |         | Switch Controller   |
|   |         | Jar                 |
|   |         | Karton Box          |
|   |         | EPS / Inner Packing |
|   |         | Blade               |
| 4 | Mixer   | Motor Assy          |
|   |         | AC Cord             |
|   |         | Casing              |
|   |         | Beater              |
|   |         | Dough Cook          |
|   |         | Karton Box          |
|   |         | EPS / Inner Packing |
|   |         | Fastener            |
|   |         | Motor Assy          |

23. 27520 – Industri Peralatan Elektrotermal Rumah Tangga

| No | Jenis Barang            | Uraian Komponen Utama   |
|----|-------------------------|-------------------------|
| 1  | Kipas Angin             | Baling - Baling (Blade) |
|    |                         | Motor Assy              |
|    |                         | Casing Set              |
|    |                         | Fan Guard               |
|    |                         | AC Cord                 |
|    |                         | Fastener                |
|    |                         | Karton Box              |
|    |                         | EPS / Inner Packing     |
|    |                         | Base                    |
|    |                         | Switch Controller       |
| 2  | Setrika Listrik dan Uap | Casing                  |
|    |                         | Elemen Pemanas          |
|    |                         | AC Cord                 |
|    |                         | Karton Box              |
|    |                         | EPS/Inner Packing       |
| 3  | Penanak Nasi            | Casing Set              |
|    |                         | Inner Pan/Panci         |
|    |                         | AC Cord                 |
|    |                         | Elemen Pemanas          |
|    |                         | Fastener                |
|    |                         | Karton Box              |
|    |                         | EPS/Inner Packing       |

|  |  |                                |
|--|--|--------------------------------|
|  |  | Microswitch/Control Panel Assy |
|  |  | Thermostat                     |
|  |  | Gasket Silikon                 |
|  |  | Ground Wire                    |

**24. 27900 – Industri Peralatan Listrik Lainnya**

| No | Jenis Barang                                                          | Uraian Komponen Utama                                             |
|----|-----------------------------------------------------------------------|-------------------------------------------------------------------|
| 1  | Modul Surya                                                           | Backsheet Bifacial                                                |
|    |                                                                       | EVA / POE Film                                                    |
|    |                                                                       | Frame                                                             |
|    |                                                                       | Junction Box                                                      |
|    |                                                                       | Photovoltaic Ribbon                                               |
|    |                                                                       | Solar Cell / Sel Surya                                            |
|    |                                                                       | Solar Silicon                                                     |
|    |                                                                       | Kaca Tempered                                                     |
| 2  | Joint Shear Bolt                                                      | Joint Tube / Sleeve (Al/Cu)                                       |
|    |                                                                       | Baut (Al)                                                         |
|    |                                                                       | Spacer                                                            |
|    |                                                                       | Stoper                                                            |
| 3  | Sepatu Kabel Shear Bolt                                               | Rod (Al/Cu)                                                       |
|    |                                                                       | Baut (Al)                                                         |
|    |                                                                       | Spacer                                                            |
| 4  | Sepatu Kabel                                                          | Rod (Alumunium (Al) / Tembaga (Cu) / Alumunium – Tembaga (Al/Cu)) |
| 5  | Selongsong Sambung Bimetal                                            | Rod Alumunium (Al)                                                |
|    |                                                                       | Rod Tembaga (Cu)                                                  |
| 6  | Cover Bushing Polimer                                                 | Silicone Rubber                                                   |
|    |                                                                       | Biji Plastik                                                      |
| 7  | Service Wedge Clamp                                                   | Biji Plastik                                                      |
|    |                                                                       | Kawat                                                             |
| 8  | Perlengkapan atau pendukung Produk UPS (Uninterruptible Power Supply) | Kabel                                                             |
|    |                                                                       | Box Battery                                                       |
|    |                                                                       | Battery Cell                                                      |
| 9  | Strainhook Clamp                                                      | Clamp Strainhook Clamp (Plat)                                     |
|    |                                                                       | Badan Starinhook Clamp                                            |
|    |                                                                       | Fastener                                                          |
|    |                                                                       | Ring                                                              |
| 10 | Strainhook Ekor Babi                                                  | Badan Strainhook Ekor Babi (Plat)                                 |
|    |                                                                       | Fastener                                                          |
| 11 | Bracket Trafo                                                         | Band Segment/Klem (Plat)                                          |
|    |                                                                       | Fastener                                                          |
| 12 | Brace Steel                                                           | Plat                                                              |
| 13 | Ground Rod                                                            | Roniser / As besi                                                 |
|    |                                                                       | Plat Besi                                                         |
|    |                                                                       | Klem                                                              |
| 14 | Travers Tumpu                                                         | UNP 100                                                           |
|    |                                                                       | Plat Simpul                                                       |
|    |                                                                       | Klem Beugle                                                       |
|    |                                                                       | Fastener                                                          |

|    |                         |                       |
|----|-------------------------|-----------------------|
| 15 | Travers Afspan          | UNP 100               |
|    |                         | Fastener              |
|    |                         | Double Arming         |
|    |                         | Strip Plat            |
|    |                         | Plat Simpul           |
| 16 | Travers Bendera         | UNP 100               |
|    |                         | Plat Simpul           |
|    |                         | Klem Beugle (Plat)    |
|    |                         | Plat Diagonal         |
|    |                         | Klem (Plat)           |
| 17 | Travers Double Tumpu    | Fastener              |
|    |                         | Double Arming         |
| 18 | Travers Tumpu V         | UNP 100               |
|    |                         | UNP V                 |
|    |                         | Fastener              |
| 19 | Serandang Trafo 1 Tiang | UNP                   |
|    |                         | Stopping Buckel       |
|    |                         | Stainless Steel Strep |
|    |                         | Plat Simpul           |
|    |                         | Pipa Galvanize        |
|    |                         | Fastener              |
|    |                         | Link                  |
|    |                         | Klem LVSB (Plat)      |
|    |                         | Klem Beugle (Plat)    |
|    |                         | Klem Besar (Plat)     |
|    |                         | Klem (Plat)           |
|    |                         | Inveoring             |
| 20 | Serandang Trafo 2 Tiang | Besi Siku             |
|    |                         | Pipa Galvanis         |
|    |                         | Inveoring             |
|    |                         | Klem                  |
|    |                         | PGTR (Plat)           |
|    |                         | Fastener              |
|    |                         | Plat Strip            |
|    |                         | Plat Bordes           |
| 21 | Stopping Buckle         | Siku                  |
|    |                         | UNP                   |
| 22 | Clamp Beugle            | Plat / Besi Plat      |

**25. 28130 - Industri Pompa Lainnya, Kompresor, Kran dan Klep/  
Katup**

| No | Jenis Barang           | Uraian Komponen Utama |
|----|------------------------|-----------------------|
| 1  | Pompa Air Shallow Well | Pump Casing           |
|    |                        | Motor Assy            |

|   |          |                                 |
|---|----------|---------------------------------|
|   |          | Impeller Cover                  |
|   |          | Carton Box                      |
|   |          | Inner Packing                   |
|   |          | AC Cord                         |
|   |          | Akumulator Set / Small Tank Set |
|   |          | Impeller Set                    |
|   |          | Fastener                        |
|   |          | Fan Set                         |
|   |          | Pressure Switch                 |
|   |          | Casing Cover                    |
|   |          | Capacitor                       |
|   |          | Terminal Cover                  |
|   |          |                                 |
| 2 | Jet Pump | Pump Casing                     |
|   |          | Motor Assy                      |
|   |          | Impeller Cover                  |
|   |          | Carton Box                      |
|   |          | Inner Packing                   |
|   |          | AC Cord                         |
|   |          | Akumulator Set / Small Tank Set |
|   |          | Impeller Set                    |
|   |          | Fastener                        |
|   |          | Fan Set                         |
|   |          | Pressure Switch                 |
|   |          | Suction Flange                  |
|   |          | Jet Assy                        |
|   |          | Pressure Tank                   |
|   |          | AVC / Air Charger               |
|   |          | Casing Cover                    |
|   |          | Capacitor                       |
|   |          | Capillary Tube                  |
|   |          | Terminal Cover                  |

**26. 28193 – Industri Mesin Pendingin**

| No | Jenis Barang                                            | Uraian Komponen Utama |
|----|---------------------------------------------------------|-----------------------|
| 1  | Lemari Pendingin / Showcase / Freezer                   | AC Cord               |
|    |                                                         | Kompresor             |
|    |                                                         | Control Box Assy      |
|    |                                                         | Door Assy             |
|    |                                                         | Cabinet Assy          |
|    |                                                         | Carton Box            |
|    |                                                         | EPS / Inner Packing   |
|    |                                                         | Wire Harness          |
|    |                                                         | Fastener              |
|    |                                                         | Condensor Set         |
|    |                                                         | Evaporator            |
|    |                                                         |                       |
| 2  | Air Conditioner / Pengkondisi Udara / Pendingin Ruangan | Casing Indoor Assy    |
|    |                                                         | Casing Outdoor Assy   |
|    |                                                         | Control Board Assy    |
|    |                                                         | Evaporator            |
|    |                                                         | Fan Motor Indoor      |
|    |                                                         | Kondensor             |

|  |  |                     |
|--|--|---------------------|
|  |  | Fan Motor Outdoor   |
|  |  | Kompresor Assy      |
|  |  | AC Cord             |
|  |  | Wire Harness        |
|  |  | Tube Assy           |
|  |  | Fastener            |
|  |  | Carton Box          |
|  |  | EPS / Inner Packing |
|  |  | Remote Control      |
|  |  | Valve Assy          |

**27. 33201 – Industri Instalasi dan Perangkaan/Integrasi Mesin, Peralatan dan Sistem Industri**

| No | Jenis Barang                                                                     | Uraian Komponen Utama |
|----|----------------------------------------------------------------------------------|-----------------------|
| 1  | Instalasi, Integrasi dan Commissioning Lini Produksi Kartu & Mesin Personalisasi | Mesin Personalisasi   |
|    |                                                                                  | Encoding Unit         |
|    |                                                                                  | Control System        |
|    |                                                                                  | Electrical Panel      |
|    |                                                                                  | Mechanical Assembly   |
|    |                                                                                  | Integration Software  |

**28. 62900 – Industri Aktivitas Jasa Teknologi Informasi dan Komputer Lainnya**

| No | Jenis Barang                                                                             | Uraian Komponen Utama   |
|----|------------------------------------------------------------------------------------------|-------------------------|
| 1  | Sistem Teknologi Informasi untuk Personalisasi Kartu, Manajemen Kunci, dan Encoding Data | Application Software    |
|    |                                                                                          | Database System         |
|    |                                                                                          | Encryption Module       |
|    |                                                                                          | Key Management System   |
|    |                                                                                          | Security Access Control |
|    |                                                                                          | Server / Workstation    |

DIREKTUR JENDERAL  
INDUSTRI LOGAM, MESIN, ALAT  
TRANSPORTASI DAN ELEKTRONIKA,  
KEMENTERIAN PERINDUSTRIAN



SETIA DIARTA