

QL. No : 2786/SI/I/25

Subject : Distribusi Listrik Utility Gardu Utama Biofarma PT. Bio Farma

Lampiran: 3 Halaman

Bandung, 2 Januari 2025

To.

PT. BIOFARMA (PERSERO)

Jl. Pasteur No.28, Sukajadi Pasteur

Bandung, 40016

Dengan Hormat,

Bersama ini kami kirimkan penawaran harga pekerjaan Distribusi Listrik Utility Gardu Utama Biofarma, sesuai dengan spesifikasi berikut:

| No | Description                                                                  | Spesifikasi / Type                                      | Qty | Unit Price | Total Price |
|----|------------------------------------------------------------------------------|---------------------------------------------------------|-----|------------|-------------|
| 1  | Pekerjaan Persiapan                                                          |                                                         | 1   | Ls         | Rp          |
|    | Dikeet                                                                       |                                                         |     |            |             |
|    | Lifting Alat / Loading & Unloading Alat                                      |                                                         |     |            |             |
|    | K3                                                                           |                                                         |     |            |             |
|    | Mobilisasi                                                                   |                                                         |     |            |             |
|    | Demobilisasi                                                                 |                                                         |     |            |             |
|    | Pagar Pengaman                                                               |                                                         |     |            |             |
| 2  | Pembongkaran dan Pemasangan Panel dan Trafo dari Power House ke Gardu Hubung |                                                         | 1   | Set        | Rp          |
| 3  | Pengadaan dan Pemasangan                                                     |                                                         |     |            |             |
| a  | Panel ACB 1600 A                                                             | Top Incoming, Draw out Type                             | 4   | Set        | Rp          |
|    |                                                                              | - Auto & Ready connect to SCADA Motorized               |     |            |             |
|    |                                                                              | - UVT Delay min 3 sec                                   |     |            |             |
|    |                                                                              | - DPM 8000 series                                       |     |            |             |
|    |                                                                              | - Sub breaker 250 A (Adj) 55 A - 1 pcs                  |     |            |             |
|    |                                                                              | - Shunt trip & Closing coil                             |     |            |             |
|    |                                                                              | - Protection : UVR, OVR                                 |     |            |             |
|    |                                                                              | - Ketebalan Panel min 2 mm, Powder Coating textured     |     |            |             |
| b  | SDP 1000A Di Gedung                                                          |                                                         | 1   | Unit       | Rp          |
|    |                                                                              | - Main breaker 1000 A                                   |     |            |             |
|    |                                                                              | - Sub breaker 250 A, 2 pcs ; 100A, 3 pcs; 50A, 4 pcs    |     |            |             |
|    |                                                                              | Internal Lamp & Stop kontak                             |     |            |             |
|    |                                                                              | - DPM 8000 series                                       |     |            |             |
|    |                                                                              | - Ketebalan Panel min 2 mm, Powder Coating textured     |     |            |             |
| c  | ACTS 1600A                                                                   |                                                         |     |            |             |
|    | * ACTS 4P 1600A                                                              | Sistem ATS Tanpa Kedip                                  | 1   | Set        | Rp          |
|    |                                                                              | Mode bas / Ethernet / remote ready                      |     |            |             |
|    |                                                                              | - include sub outgoing MCCB 630 A                       |     |            |             |
|    |                                                                              | - Ready connect SCADA / Mode BAS                        |     |            |             |
|    |                                                                              | - Ketebalan Panel PHB min 2 mm, Powder Coating textured |     |            |             |
| d  | Accessories                                                                  | Applied pada seluruh terminasi, instalasi dan pengujian | 1   | Ls         | Include     |
| 4  | Pengadaan dan Pemasangan Trafo 2000 kVA                                      |                                                         |     |            |             |
| a  | Pengadaan dan Pemasangan Trafo 2000 kVA                                      |                                                         |     |            |             |
|    | Transformator Distribusi 2000kVA 20kV/0.4kV                                  | - 20 kV 400/231V 50Hz, 3 Phase, ONAN, Dyn 5             | 1   | Unit       | Rp          |
|    |                                                                              | - Type : Hermetically Sealed                            |     |            |             |
|    |                                                                              | - Winding : Cu-Cu                                       |     |            |             |
|    |                                                                              | - DGPT & Elastimold                                     |     |            |             |
|    |                                                                              | - Mineral Oil                                           |     |            |             |

|    |                                                 |                                        |       |       |    |              |  |
|----|-------------------------------------------------|----------------------------------------|-------|-------|----|--------------|--|
| 5  | Pengadaan dan Pemasangan Kabel                  |                                        |       |       |    |              |  |
| a  | Kabel MV 3,3 KV Panel to Trafo                  | - Kabel N2XS 1x120 sqmm                | 300   | meter | Rp |              |  |
| b  | Kabel LV (Genset) Trafo to Panel Internal Gardu | - Kabel NYY 1x300 sqmm                 | 1632  | meter | Rp |              |  |
| c  | Kabel LV Outgoing LVMDP / ACTS to SDP gedung    | - Kabel NYY 1x300 sqmm                 | 876   | meter | Rp |              |  |
| d  | Kabel Incoming MV 20 kV Panel to trafo          | - Kabel MV 12/20kV N2XS 1x120 sqmm     | 189   | meter | Rp |              |  |
| e  | Kabel LV (PLN) Trafo to Panel Internal Gardu    | - Kabel LV NYY 4x3x1x300 sqmm          | 1908  | meter | Rp |              |  |
| f  | Kabel LV Outgoing LVMDP / ACTS to SDP alat      | - Kabel NYY 1x150 sqmm                 | 12104 | meter | Rp |              |  |
| 6  | Pengadaan dan Pemasangan Kabel Ladder           | Hot Dip Galvanized<br>with accessories | 1722  | m     | Rp |              |  |
| 7  | Pekerjaan Instalasi                             |                                        |       |       |    |              |  |
|    | Instalasi seluruh perangkat dan Penunjang       |                                        | 1     | Ls    | Rp |              |  |
| 8  | FAT                                             |                                        | 1     | Ls    | Rp |              |  |
| 9  | Commissioning Test                              |                                        | 1     | Ls    | Rp |              |  |
| 10 | Report & Asbuilt Drawing                        |                                        | 1     | Ls    | Rp |              |  |
|    |                                                 |                                        |       |       |    | <b>TOTAL</b> |  |

**Syarat dan ketentuan:**

- Harga LOCO Bandung
- Harga tidak termasuk PPN 11%

**Termin Pembayaran:**

- DP 30%, maksimum 7 (tujuh) hari setelah invoice diterima
- Progress 50% setelah FAT dan sebelum barang terkirim
- Progress 15% setelah testing dan commissioning
- Retensi 5% masa pemeliharaan 6 bulan

**Garansi:**

- Garansi pekerjaan selama 2 tahun dikarenakan atas kesalahan pembuatan/ fabrikasi dan instalasi, bukan karena kesalahan pengoperasian

Demikian penawaran dari kami, apabila ada yang kurang jelas dan perlu untuk diskusi lebih lanjut mohon untuk menghubungi kami. Atas perhatian dan kerjasamanya kami ucapkan terimakasih.

Hormat kami,

**PT. Semicon Internusa**



**Arva Raharjasa**  
S.M Manager

## TIMELINE PENGADAAN

| No. | Description                                             | January-25 |   |   | February-25 |   |   |   | March-25 |   |    |    | April-25 |    |    |    |    |
|-----|---------------------------------------------------------|------------|---|---|-------------|---|---|---|----------|---|----|----|----------|----|----|----|----|
|     |                                                         | 1          | 2 | 3 | 4           | 5 | 6 | 7 | 8        | 9 | 10 | 11 | 12       | 13 | 14 | 15 | 16 |
|     | Kontrak / Penunjukan (Estimasi tanggal 13 Januari 2025) |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| 1   | Pekerjaan Persiapan                                     |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | Approval Material & Drawing                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| 2   | Pengadaan dan Pemasangan                                |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| a   | Panel ACB 1600 A                                        |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| b   | SDP 1000A Di Gedung                                     |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| c   | ACTS 1600A                                              |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     |                                                         |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| 3   | Pengadaan dan Pemasangan Trafo 2000 kVA                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| a   | Pengadaan dan Pemasangan Trafo 2000 kVA                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | Transformator Distribusi 2000kVA 20kV/0.4kV             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| 4   | Pengadaan Kabel                                         |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| a   | Kabel MV 3,3 KV Panel to Trafo                          |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| b   | Kabel LV (Genset) Trafo to Panel Internal Gardu         |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| c   | Kabel LV Outgoing LVMDP / ACTS to SDP gedung            |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| d   | Kabel Incoming MV 20 kV Panel to trafo                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| e   | Kabel LV (PLN) Trafo to Panel Internal Gardu            |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| f   | Kabel LV Outgoing LVMDP / ACTS to SDP alat              |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
| 5   | Pengadaan dan Pemasangan Kabel Ladder                   |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |
|     | - Pengadaan                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |

## TIMELINE PROJECT

| No. | Description                                                                  | January-25 |   |   | February-25 |   |   |   | March-25 |   |    |    | April-25 |    |    |    |    |    |
|-----|------------------------------------------------------------------------------|------------|---|---|-------------|---|---|---|----------|---|----|----|----------|----|----|----|----|----|
|     |                                                                              | 1          | 2 | 3 | 4           | 5 | 6 | 7 | 8        | 9 | 10 | 11 | 12       | 13 | 14 | 15 | 16 | 17 |
|     | Kontrak / Penunjukan (Estimasi tanggal 13 Januari 2025)                      |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 1   | Pekerjaan Persiapan                                                          |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | Dirkeet                                                                      |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | Approval Material & Drawing                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 2   | Pembongkaran dan Pemasangan Panel dan Trafo dari Power House ke Gardu Hubung |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 3   | Pengadaan dan Pemasangan                                                     |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| a   | Panel ACB 1600 A                                                             |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| b   | SDP 1000A Di Gedung                                                          |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| c   | ACTS 1600A                                                                   |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 4   | Pengadaan dan Pemasangan Trafo 2000 kVA                                      |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| a   | Pengadaan dan Pemasangan Trafo 2000 kVA                                      |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | Transformator Distribusi 2000kVA 20kV/0.4kV                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 5   | Pengadaan dan Pemasangan Kabel                                               |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| a   | Kabel MV 3,3 KV Panel to Trafo                                               |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| b   | Kabel LV (Genset) Trafo to Panel Internal Gardu                              |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| c   | Kabel LV Outgoing LVMDP / ACTS to SDP gedung                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| d   | Kabel Incoming MV 20 kV Panel to trafo                                       |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| e   | Kabel LV (PLN) Trafo to Panel Internal Gardu                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| f   | Kabel LV Outgoing LVMDP / ACTS to SDP alat                                   |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 6   | Pengadaan dan Pemasangan Kabel Ladder                                        |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pengadaan                                                                  |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | - Pemasangan                                                                 |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 7   | Pekerjaan Instalasi                                                          |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
|     | Instalasi seluruh perangkat dan Penunjang                                    |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 8   | FAT                                                                          |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 9   | Commissioning Test                                                           |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |
| 10  | Report & Asbuilt Drawing                                                     |            |   |   |             |   |   |   |          |   |    |    |          |    |    |    |    |    |