

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pekerjaan Pembangunan di Intake
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|---|--|----------------|-----------|-------------------|----------------------|
| I | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| II PEKERJAAN PEMBANGUNAN DI INTAKE | | | | | |
| II.1 Pekerjaan Beton | | | | | |
| I Pondasi Support Pipa Header : | | | | | |
| | - Galian | m ³ | 9.75 | | |
| | - Buangan Tanah | m ³ | 9.75 | | |
| | - Lantai Kerja | m ³ | 0.27 | | |
| | - Beton K-300 Readymiks fc' 30 MPA | m ³ | 11.34 | | |
| | - Bekisting | m ² | 45.36 | | |
| | - Pembesian | kg | 1,701.00 | | |
| Jumlah Sub Total II.1 | | | | | |
| II.2 Pekerjaan Besi dan Baja | | | | | |
| I Besi Tiang Penahan Atas : | | | | | |
| | - Pengadaan dan Pemasangan H Beam 350 x 350 | kg | 4,521.00 | | |
| | - Pengadaan dan Pemasangan H Beam 300 x 300 | kg | 2,726.00 | | |
| | - Pengadaan dan Pemasangan UNP 200 x 100 | kg | 466.67 | | |
| 2 Besi Tiang Penahan Pompa : | | | | | |
| | - H Beam 350 x 350 | kg | 15,344.00 | | |
| | - UNP 200 x 100 | kg | 2,613.33 | | |
| 3 Biaya Perakitan | | | | | |
| | | kg | 25,671.00 | | |
| Jumlah Sub Total II.2 | | | | | |
| II.3 Pekerjaan Bangunan Panel dan Trafo Intake | | | | | |
| I Pekerjaan Tanah dan Pondasi | | | | | |
| | - Galian Tanah | m ³ | 13.50 | | |
| | - Pondasi Setempat Beton K300 | m ³ | 2.70 | | |
| | - Pembesian | kg | 464.96 | | |
| | - Bekisting | m ² | 10.80 | | |
| | - Urugan Tanah Kembali | m ³ | 6.83 | | |
| | - Buangan Tanah | m ³ | 6.67 | | |
| 2 Pekerjaan Beton Bertulang | | | | | |
| - Sloof 250x400 | | | | | |
| | Beton K-300 Readymiks fc' 30 MPA | m ³ | 3.00 | | |
| | Bekisting | m ² | 24.00 | | |
| | Pembesian | kg | 464.96 | | |
| - Kolom 300 x 300 : | | | | | |
| | Beton K-300 Readymiks fc' 30 MPA | m ³ | 3.89 | | |
| | Bekisting | m ² | 51.84 | | |
| | Pembesian | kg | 679.67 | | |
| - Ring Balok 250x400 : | | | | | |
| | Beton K-300 Readymiks fc' 30 MPA | m ³ | 3.00 | | |
| | Bekisting | m ² | 31.50 | | |
| | Pembesian | kg | 464.96 | | |
| - Ring Balok 250x300 : | | | | | |
| | Beton K-300 Readymiks fc' 30 MPA | m ³ | 0.90 | | |
| | Bekisting | m ² | 10.20 | | |
| | Pembesian | kg | 156.39 | | |
| - Lantai t =120 mm | | | | | |
| | Beton K-300 Readymiks fc' 30 MPA | m ³ | 7.44 | | |
| | Bekisting | m ² | 6.00 | | |
| | Pembesian | kg | 244.90 | | |
| - Dak Lantai t =120 mm | | | | | |
| | Beton K-300 Readymiks fc' 30 MPA | m ³ | 7.56 | | |
| | Bekisting | m ² | 83.72 | | |
| | Pembesian | kg | 1,430.41 | | |
| 3 Pekerjaan Pasangan Bata Dinding | | | | | |
| | - Pasangan Bata | m ² | 86.40 | | |
| | - Acian Dinding | m ² | 172.80 | | |
| | - Plesteran Dinding | m ² | 172.80 | | |
| 4 Pekerjaan Pintu dan Jendela | | | | | |
| | - Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (3,00 x 2,40 m) 3 unit | m ² | 4.40 | | |
| | - Jendela Jalusi Aluminium (2.65 x 0,9 m) | unit | 6.00 | | |
| 5 Pengecatan | | | | | |
| | | m ² | 172.80 | | |
| Jumlah Sub Total II.3 | | | | | |

JUMLAH TOTAL (II.1 + II.2 + II.3)

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pekerjaan Water Treatment Plan 500 lps
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|---|--|----------------|------------|-------------------|----------------------|
| I | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| III PEKERJAAN WATER TREATMENT PLAN 500 LPS | | | | | |
| III.1 Pekerjaan Tanah | | | | | |
| 1 | Pekerjaan Galian Tanah (Alat) | m3 | 2,361.97 | | |
| 2 | Pekerjaan Urugan Tanah Kembali | m3 | 2,361.97 | | |
| 3 | Pekerjaan Urugan Tanah | m3 | 5,647.82 | | |
| 5 | Pekerjaan Pondasi Batu Belah | | | | |
| | - Pondasi Batu Belah Campuran ISP : 3PP | m3 | 708.67 | | |
| | - Kolom 20/30 cm | | | | |
| | Beton K-250 | M ³ | 10.11 | | |
| | Pembesian | Kg | 1,068.40 | | |
| | Bekisting | M ² | 168.54 | | |
| | - Sloof 20/30 cm | | | | |
| | Beton K-250 | M ³ | 10.83 | | |
| | Pembesian | Kg | 1,143.84 | | |
| | Bekisting | M ² | 72.18 | | |
| | - Balok 20/30 cm | | | | |
| | Beton K-250 | M ³ | 9.39 | | |
| | Pembesian | Kg | 991.70 | | |
| | Bekisting | M ² | 62.58 | | |
| | - Pemasangan Pipa Suling-Suling (PVC 50 mm) | m | 354.38 | | |
| 6 | PDA Test | ttk | 10.00 | | |
| Jumlah Sub Total III.1 | | | | | |
| III.2 Pekerjaan WTP 500 LPS | | | | | |
| III.2.1 Pekerjaan Pondasi WTP 500 LPS | | | | | |
| 1 | BorePile Ø 45 cm, P = 8 m IPA | | | | |
| | - Pengeboran Ø 45 cm | M | 1,280.00 | | |
| | - Beton K-350 | M ³ | 203.58 | | |
| | - Pembesian | Kg | 26,328.01 | | |
| | - Sewa Casing Borepile Ø 45 cm | M | 1,280.00 | | |
| 2 | Slab Beton | | | | |
| | - Beton K-300 | M ³ | 354.24 | | |
| | - Pembesian | Kg | 53,821.02 | | |
| | - Bekisting | M ² | 48.48 | | |
| 3 | BorePile Ø 30 cm, P = 8 m Atap | | | | |
| | - Pengeboran Ø 30 cm | M | 128.00 | | |
| | - Beton K-350 | M ³ | 9.04 | | |
| | - Pembesian | Kg | 2,243.74 | | |
| | - Sewa Casing Borepile Ø 30 cm | M | 128.00 | | |
| III.2.2 Pekerjaan WTP 500 LPS | | | | | |
| 1 | Pekerjaan Struktur Rangka Baja dan Support | | | | |
| | - UNP 200 x 80 x 7,5 mm | kg | 13,757.60 | | |
| | - UNP 150 x 75 x 6,5 mm | kg | 32,155.53 | | |
| | - Plat t=16 mm | kg | 32,721.41 | | |
| | - Plat t=12 mm | kg | 129,847.14 | | |
| | - Plat t=10 mm | kg | 179,810.09 | | |
| | - Plat t=6 mm | kg | 5,199.07 | | |
| | - Biaya Perakitan | kg | 393,490.84 | | |
| 2 | Pekerjaan Struktur Walkway | | | | |
| | - UNP 150 x 75 x 6,5 mm | kg | 17,911.87 | | |
| | - Hollow 50 x 50 x 3,2 mm | kg | 12,656.84 | | |
| | - Plat Checker t= 5 mm | kg | 8,725.64 | | |
| | - Biaya Perakitan | kg | 39,294.35 | | |
| 3 | Pekerjaan Struktur Atap IPA | | | | |
| | - Pipa Spiral Steel SCH 40, DN 350 | kg | 10,934.40 | | |
| | - Pipa Steel SCH 40, DN 200 | kg | 14,800.44 | | |
| | - Pipa Steel SCH 40, DN 100 | kg | 9,834.84 | | |
| | - Pipa Steel SCH 40, DN 75 | kg | 7,488.36 | | |
| | - Hollow 50 x 50 x 3,2 mm | kg | 8,605.80 | | |
| | - Biaya Perakitan | kg | 51,663.84 | | |
| | - Pekerjaan Penutup Atap Spandek T = 0.46 mm | m2 | 1,485.00 | | |

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|------|--|----------------|------------|--|
| 4 | Pekerjaan Fasilitas Treatment | | | |
| 1 | Pengadaan dan Pemasangan Nozzle Filter 0,5mm | pcs | 12,000.00 | |
| 2 | Pengadaan dan Pemasangan Media Filter | | | |
| | - Pekerjaan pasir silica 1 Mess 4-6 mesh (sesuai gambar) | Kg | 37,000.00 | |
| | - Pekerjaan pasir silica 1 Mess 16-20 mesh (sesuai gambar) | Kg | 230,000.00 | |
| 5 | Pekerjaan Pengecatan | | | |
| 1 | Dalam Dengan Cat Foodgrade | M2 | 6,966.76 | |
| 2 | Luar Dengan Cat anti karat | M2 | 4,813.02 | |
| 6 | Pengadaan dan Pemasangan Settler SS304, $\tau=0.6\text{mm}$ (1050 x 2400 mm) | Lbr | 3,500.00 | |
| 7 | Pekerjaan Pipa dan Aksesoris Flokulasi | | | |
| 7.1. | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 100 mm | m' | 68.00 | |
| 2 | Bend 90° BSP DN. 100 mm | Pcs | 24.00 | |
| 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 100 mm | Pcs | 24.00 | |
| 4 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN. 100 mm | Pcs | 24.00 | |
| 5 | Solenoid for Actuator DN 100 mm | Pcs | 24.00 | |
| 6 | Loose Flange Carbon Steel PN 16 DN. 100 mm | Pcs | 48.00 | |
| 7 | Rubber Packing $\tau=5$ mm DN. 100 mm | pcs | 24.00 | |
| 8 | Bolt and Nut M16 x 45 mm | Pcs | 384.00 | |
| 7.2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN 100 mm | m' | 68.00 | |
| 2 | Bend 90° BSP DN. 100 mm | Pcs | 24.00 | |
| 3 | Wafer Butterfly Valve PN 16 DN 100 mm | Pcs | 24.00 | |
| 4 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN. 100 mm | Pcs | 24.00 | |
| 5 | Solenoid for Actuator DN 100 mm | Pcs | 24.00 | |
| 6 | Pengelasan | cm | 4,900.88 | |
| 7 | Pengecatan Pipa | | | |
| | - Dalam Dengan Cat anti karat | m ² | 21.36 | |
| | - Luar Dengan Cat anti karat | m ² | 24.42 | |
| 8 | Pekerjaan Pipa dan Aksesoris Sedimentasi | | | |
| 8.1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 226.00 | |
| 2 | Bend 90° BSP DN. 150 mm | Pcs | 40.00 | |
| 3 | Wafer Butterfly Valve Flanged Connection Pn 16 DN. 150 mm | Pcs | 24.00 | |
| 4 | Pneumatic Single Acting Valve Wafer Connection DN. 150 mm | Pcs | 24.00 | |
| 5 | Solenoid for Actuator DN 150 mm | Pcs | 24.00 | |
| 6 | Loose Flange Carbon Steel PN 16 DN. 150 mm | Pcs | 96.00 | |
| 7 | Rubber Packing $\tau=5$ mm DN. 150 mm | pcs | 24.00 | |
| 8 | Bolt and Nut M20 x 60 mm | Pcs | 384.00 | |
| 8.2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 226.00 | |
| 2 | Bend 90° BSP DN. 150 mm | Pcs | 40.00 | |
| 3 | Wafer Butterfly Valve Pn 16 DN. 150 mm | Pcs | 24.00 | |
| 4 | Pneumatic Single Acting Valve Wafer Connection DN. 150 mm | Pcs | 24.00 | |
| 5 | Solenoid for Actuator DN 150 mm | Pcs | 24.00 | |
| 6 | Pengelasan | cm | 14,608.41 | |
| 7 | Pengecatan Pipa | | | |
| | - Dalam Dengan Cat anti karat | m ² | 106.50 | |
| | - Luar Dengan Cat anti karat | m ² | 119.49 | |
| 9 | Pekerjaan Pipa dan Aksesoris Transisi Floatation | | | |
| 9.1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 100 mm | m' | 30.00 | |
| 2 | Pipa BSP Kelas Medium, DN. 200 mm | m' | 9.00 | |
| 3 | Bend 90° BSP DN. 100 mm | Pcs | 6.00 | |
| 4 | Bend 90° BSP DN. 200 mm | Pcs | 6.00 | |
| 5 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 100 mm | Pcs | 6.00 | |
| 6 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN. 100 mm | Pcs | 6.00 | |
| 7 | Solenoid for Actuator DN 100 mm | Pcs | 6.00 | |
| 8 | Loose Flange Carbon Steel PN 16 DN. 100 mm | Pcs | 12.00 | |
| 9 | Rubber Packing $\tau=5$ mm DN. 100 mm | pcs | 6.00 | |
| 10 | Bolt and Nut M16 x 45 mm | Pcs | 96.00 | |
| 9.2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 100 mm | m' | 30.00 | |
| 2 | Pipa BSP Kelas Medium, DN. 200 mm | m' | 9.00 | |
| 3 | Bend 90° BSP DN 100 mm | Pcs | 6.00 | |
| 4 | Bend 90° BSP DN. 200 mm | Pcs | 6.00 | |
| 5 | Wafer Butterfly Valve PN 16 DN. 100 mm | Pcs | 6.00 | |
| 6 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN. 100 mm | Pcs | 6.00 | |
| 7 | Solenoid for Actuator DN 100 mm | Pcs | 6.00 | |
| 8 | Pengelasan | cm | 2,167.70 | |
| 9 | Pengecatan Pipa | | | |
| | - Dalam Dengan Cat anti karat | m ² | 15.08 | |
| | - Luar Dengan Cat anti karat | m ² | 16.97 | |
| 10 | Pekerjaan Pipa dan Aksesoris Inlet Filtrasi | | | |
| 10.1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |

| | | | | | |
|--|---|--|----------------|----------|--|
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 24.00 | |
| | 2 | Bend 90° BSP DN. 250 mm | Pcs | 8.00 | |
| | 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 4 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN.250 mm | Pcs | 8.00 | |
| | 5 | Solenoid for Actuator DN 250 mm | Pcs | 8.00 | |
| | 5 | Loose Flange Carbon Steel PN 16 DN. 250 mm | Pcs | 16.00 | |
| | 6 | Bolt and Nut M24 x 85 mm | pcs | 96.00 | |
| | 10.2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 24.00 | |
| | 2 | Bend 90° BSP DN. 250 mm | Pcs | 8.00 | |
| | 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 4 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN.250 mm | Pcs | 8.00 | |
| | 5 | Solenoid for Actuator DN 250 mm | Pcs | 8.00 | |
| | 5 | Pengelasan | cm | 4,084.07 | |
| | 7 | Pengecatan Pipa | | | |
| | | - Dalam Dengan Cat anti karat | m ² | 18.85 | |
| | | - Luar Dengan Cat anti karat | m ² | 20.59 | |
| | 11 Pekerjaan Pipa dan Aksesoris Drain Filter | | | | |
| | 11.1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 24.00 | |
| | 2 | Bend 90° BSP DN. 250 mm | Pcs | 8.00 | |
| | 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 4 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN.250 mm | Pcs | 8.00 | |
| | 5 | Solenoid for Actuator DN 250 mm | Pcs | 8.00 | |
| | 5 | Loose Flange Carbon Steel PN 16 DN. 250 mm | Pcs | 32.00 | |
| | 6 | Bolt and Nut M24 x 85 mm | pcs | 192.00 | |
| | 11.2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 24.00 | |
| | 2 | Bend 90° BSP DN. 250 mm | Pcs | 8.00 | |
| | 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 4 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN.250 mm | Pcs | 8.00 | |
| | 5 | Solenoid for Actuator DN 200 mm | Pcs | 8.00 | |
| | 5 | Pengelasan | cm | 6,597.34 | |
| | 7 | Pengecatan Pipa | | | |
| | | - Dalam Dengan Cat anti karat | m ² | 18.85 | |
| | | - Luar Dengan Cat anti karat | m ² | 20.59 | |
| | 12 Pekerjaan Pipa dan Aksesoris Outlet Filter | | | | |
| | 12.1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 36.00 | |
| | 2 | Tee BSP DN. 250x250 mm | Pcs | 8.00 | |
| | 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 4 | Electro Pneumatic Positioner Rotary for Valve DN 250 mm | Pcs | 8.00 | |
| | 5 | Loose Flange Carbon Steel PN 16 DN. 250 mm | Pcs | 32.00 | |
| | 6 | Rubber Packing τ=5 mm DN. 250 mm | pcs | 24.00 | |
| | 7 | Bolt and Nut M24 x 85 mm | pcs | 96.00 | |
| | 12.2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 36.00 | |
| | 2 | Tee BSP DN. 250x250 mm | Pcs | 8.00 | |
| | 3 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 4 | Electro Pneumatic Positioner Rotary for Valve DN 250 mm | Pcs | 8.00 | |
| | 5 | Pengelasan | cm | 7,382.74 | |
| | 6 | Pengecatan Pipa | | | |
| | | - Dalam Dengan Cat anti karat | m ² | 28.27 | |
| | | - Luar Dengan Cat anti karat | m ² | 30.89 | |
| | 13 Pekerjaan Pipa dan Aksesoris Backwash Filter | | | | |
| | 13.1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 12.00 | |
| | 3 | Bend 90° BSP DN. 250 mm | pcs | 1.00 | |
| | 4 | Tee BSP DN. 250x250 mm | pcs | 7.00 | |
| | 5 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 6 | Pneumatic Single Acting Butterfly Valve DN. 250 mm | Pcs | 8.00 | |
| | 7 | Solenoid for Actuator DN 250 mm | Pcs | 8.00 | |
| | 8 | Loose Flange Carbon Steel PN 16 DN. 250 mm | Pcs | 16.00 | |
| | 9 | Bolt and Nut M24 x 85 mm | pcs | 192.00 | |
| | 13.2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 12.00 | |
| | 2 | Bend 90° BSP DN. 250 mm | pcs | 1.00 | |
| | 3 | Tee BSP DN. 250x250 mm | pcs | 7.00 | |
| | 4 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 250 mm | Pcs | 8.00 | |
| | 5 | Pneumatic Single Acting Butterfly Valve DN. 250 mm | Pcs | 8.00 | |
| | 6 | Solenoid for Actuator DN 200 mm | Pcs | 8.00 | |
| | 7 | Pengelasan | cm | 4,476.77 | |
| | 8 | Pengecatan Pipa | | | |
| | | - Dalam Dengan Cat anti karat | m ² | 9.42 | |
| | | - Luar Dengan Cat anti karat | m ² | 10.30 | |

| | | | | |
|------|--|----------------|----------|--|
| 14 | Pekerjaan Pipa dan Aksesoris Inlet Backwash Pump | | | |
| 14.1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 300 mm | m' | 24.00 | |
| 2 | Pipa BSP Kelas Medium, DN. 200 mm | m' | 12.00 | |
| 3 | Bend 90° BSP DN. 300 mm | pcs | 2.00 | |
| 4 | Bend 45° BSP DN. 300 mm | pcs | 4.00 | |
| 5 | Bend 45° BSP DN. 200 mm | pcs | 2.00 | |
| 6 | Tee Y BSP DN. 200x200 mm | pcs | 2.00 | |
| 7 | Butterfly Valve Flanged Double Connection PN 16 DN. 300 mm | Pcs | 1.00 | |
| 8 | Butterfly Valve Double Eccentric PN 16 DN. 200 mm | Pcs | 2.00 | |
| 9 | Flexible Joint PN 16 DN. 200 mm | Pcs | 2.00 | |
| 10 | Blind Flange BSP PN 16 DN. 300 mm | Pcs | 1.00 | |
| 11 | Loose Flange Carbon Steel PN 16 DN. 200 mm | Pcs | 6.00 | |
| 12 | Bolt and Nut M20 x 60 mm | pcs | 84.00 | |
| 14.2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 300 mm | m' | 24.00 | |
| 2 | Pipa BSP Kelas Medium, DN. 200 mm | m' | 12.00 | |
| 3 | Bend 90° BSP DN. 300 mm | pcs | 2.00 | |
| 4 | Bend 45° BSP DN. 300 mm | pcs | 4.00 | |
| 5 | Bend 45° BSP DN. 200 mm | pcs | 2.00 | |
| 6 | Tee Y BSP DN. 200x200 mm | pcs | 2.00 | |
| 7 | Butterfly Valve Flanged Double Connection PN 16 DN. 300 mm | Pcs | 1.00 | |
| 8 | Butterfly Valve Double Eccentric PN 16 DN. 200 mm | Pcs | 2.00 | |
| 9 | Flexible Joint PN 16 DN. 200 mm | Pcs | 2.00 | |
| 10 | Blind Flange BSP PN 16 DN. 300 mm | Pcs | 1.00 | |
| 11 | Pengelasan | cm | 2,387.61 | |
| 12 | Pengecatan Pipa | | | |
| | - Dalam Dengan Cat anti karat | m ² | 30.16 | |
| | - Luar Dengan Cat anti karat | m ² | 32.68 | |
| 15 | Pekerjaan Pipa dan Aksesoris Outlet Backwash Pump | | | |
| 15.1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 60.00 | |
| 2 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 7.00 | |
| 3 | Bend 90° BSP DN. 150 mm | pcs | 2.00 | |
| 4 | Bend 45° BSP DN. 150 mm | pcs | 2.00 | |
| 5 | Butterfly Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 | |
| 6 | Check Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 | |
| 7 | Flexible Joint PN 16 DN. 150 mm | Pcs | 2.00 | |
| 8 | Reducer Concentric BSP DN. 250x150 mm | Pcs | 2.00 | |
| 9 | Blind Flange BSP PN 16 DN. 250 mm | Pcs | 1.00 | |
| 10 | Loose Flange Carbon Steel PN 16 DN. 150 mm | Pcs | 6.00 | |
| 11 | Loose Flange Carbon Steel PN 16 DN. 250 mm | Pcs | 3.00 | |
| 12 | Rubber Packing $\tau=5$ mm DN. 150 mm | pcs | 10.00 | |
| 13 | Rubber Packing $\tau=5$ mm DN. 250 mm | pcs | 2.00 | |
| 14 | Bolt and Nut M20 x 60 mm | pcs | 72.00 | |
| 15.2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Pipa BSP Kelas Medium, DN. 250 mm | m' | 60.00 | |
| 2 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 7.00 | |
| 3 | Bend 90° BSP DN. 150 mm | pcs | 2.00 | |
| 4 | Bend 45° BSP DN. 150 mm | pcs | 2.00 | |
| 5 | Butterfly Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 | |
| 6 | Check Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 | |
| 7 | Flexible Joint PN 16 DN. 150 mm | Pcs | 2.00 | |
| 8 | Reducer Concentric BSP DN. 250x150 mm | Pcs | 2.00 | |
| 9 | Blind Flange BSP PN 16 DN. 250 mm | Pcs | 1.00 | |
| 10 | Pengelasan | cm | 2,246.24 | |
| 11 | Pengecatan Pipa | | | |
| | - Dalam Dengan Cat anti karat | m ² | 50.42 | |
| | - Luar Dengan Cat anti karat | m ² | 55.18 | |
| 16 | Pekerjaan Pipa dan Aksesoris Compressor | | | |
| 16.1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Pipa GIP Kelas Medium, DN. 25 mm | m' | 360.00 | |
| 2 | Ball Valve Kuningan drat dalam 15 mm | Pcs | 96.00 | |
| 3 | Tee Reducer GIP 25 mm x 15 mm drat dalam | Pcs | 96.00 | |
| 4 | Bend 90° GIP DN. 25 mm | Pcs | 20.00 | |
| 5 | Watermur GIP DN. 25 mm | Pcs | 30.00 | |
| 6 | Double Napple GIP DN.15 mm drat luar | Pcs | 96.00 | |
| 7 | Solenoid Valve Normally Open DN. 25 mm | Pcs | 7.00 | |
| 8 | Reducer Nippler DN. 15 mm x 6 mm | Pcs | 96.00 | |
| 9 | Tubbing Fitting DN. 6 mm | Pcs | 256.00 | |
| 10 | Fitting Y Pneumatic DN. 6 mm | Pcs | 32.00 | |
| 11 | Selang Tubing Polyuthirene DN. 6 mm (Pressure Max : 30 Mpa) | m' | 480.00 | |
| 12 | Flexible Hose DN. 25mm | m' | 4.00 | |
| 13 | Silencer DN. 6mm | Pcs | 224.00 | |
| 14 | Speed Control Fitting DN. 6 mm | Pcs | 224.00 | |

| | | | |
|--|---|----------------|----------|
| 16.2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Pipa GIP Kelas Medium, DN. 25 mm | m' | 360.00 |
| 2 | Ball Valve Kuningan drat dalam 15 mm | Pcs | 96.00 |
| 3 | Tee Reducer GIP 25 mm x 15 mm drat dalam | Pcs | 96.00 |
| 4 | Bend 90° GIP DN. 25 mm | Pcs | 20.00 |
| 5 | Watermur GIP DN. 25 mm | Pcs | 30.00 |
| 6 | Double Napple GIP DN.15 mm drat luar | Pcs | 96.00 |
| 7 | Solenoid Valve Normally Open DN. 25 mm | Pcs | 7.00 |
| 8 | Reducer Nipler DN. 15 mm x 6 mm | Pcs | 96.00 |
| 9 | Tubbing Fitting DN. 6 mm | Pcs | 256.00 |
| 10 | Fitting Y Pneumatic DN. 6 mm | Pcs | 32.00 |
| 11 | Selang Tubing Polyuthirene DN. 6 mm (Pressure Max : 30 Mpa) | m' | 480.00 |
| 12 | Flexible Hose DN. 25mm | m' | 4.00 |
| 13 | Silencer DN. 6mm | Pcs | 224.00 |
| 14 | Speed Control Fitting DN. 6 mm | Pcs | 224.00 |
| 15 | Pengelasan | cm | 3,047.34 |
| 16 | Pengecatan Pipa | | |
| - | Luar Dengan Cat anti karat | m ² | 37.77 |
| 17 Pekerjaan Pipa dan Aksesoris Blower Backwash | | | |
| 17.1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Flexible Joint PN 16 DN. 150 mm | Pcs | 2.00 |
| 2 | Butterfly Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 |
| 3 | Loose Flange Carbon Steel PN 16 DN. 150 mm | Pcs | 8.00 |
| 4 | Bend 90° BSP DN. 150 mm | Pcs | 6.00 |
| 5 | Tee BSP DN 150x150 mm | Pcs | 1.00 |
| 6 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 12.00 |
| 7 | Bolt and Nut | pcs | 40.00 |
| 8 | Rubber Packing τ=5 mm DN. 150 mm | pcs | 10.00 |
| 9 | Check Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 |
| 10 | Reducer Concentric BSP DN 150x100 mm | Pcs | 1.00 |
| 11 | Wafer Butterfly Valve Flanged Connection PN 16 DN. 100 mm | Pcs | 16.00 |
| 12 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN. 100 mm | Pcs | 16.00 |
| 13 | Solenoid for Actuator DN 100 mm | Pcs | 16.00 |
| 14 | Loose Flange Carbon Steel PN 16 DN. 100 mm | Pcs | 34.00 |
| 15 | Bend 90° BSP DN. 100 mm | Pcs | 21.00 |
| 16 | Tee BSP DN 100x100 mm | Pcs | 15.00 |
| 17 | Pipa BSP Kelas Medium, DN. 100 mm | m' | 60.00 |
| 18 | Bolt and Nut M16 x 45 mm | pcs | 256.00 |
| 17.2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| 1 | Flexible Joint PN 16 DN. 150 mm | Pcs | 2.00 |
| 2 | Butterfly Valve Flanged Connection DN 150 mm | Pcs | 2.00 |
| 3 | Bend 90° BSP DN.150 mm | Pcs | 6.00 |
| 4 | Tee DN 150 mm | Pcs | 1.00 |
| 5 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 12.00 |
| 6 | Check Valve Flanged Connection DN 150 mm | Pcs | 2.00 |
| 7 | Reducer Cocentric DN 150x100 mm | Pcs | 1.00 |
| 8 | Wafer Butterfly Valve DN 100 mm | Pcs | 16.00 |
| 9 | Pneumatic Single Acting Butterfly Valve Wafer Connection DN 100 mm | Pcs | 16.00 |
| 10 | Solenoid for Actuator DN 100 mm | Pcs | 8.00 |
| 11 | Bend 90° BSP DN. 100 mm | Pcs | 21.00 |
| 12 | Tee DN 100x100 mm | Pcs | 15.00 |
| 13 | Pipa BSP DN 100 mm | m' | 60.00 |
| 14 | Pengelasan | cm | 6,738.72 |
| 15 | Pengecatan Pipa | | |
| - | Dalam Dengan Cat anti karat | m ² | 24.50 |
| - | Luar Dengan Cat anti karat | m ² | 27.89 |
| 18 Pekerjaan Pipa dan Aksesoris Blower Flotation | | | |
| 18.1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| 1 | Flexible Joint PN 16 DN. 150 mm | Pcs | 2.00 |
| 2 | Butterfly Valve Flanged Connection PN 16 DN. 150 mm | Pcs | 2.00 |
| 3 | Loose Flange Carbon Steel PN 16 DN. 150 mm | Pcs | 8.00 |
| 4 | Bend 90° BSP DN. 150 mm | Pcs | 6.00 |
| 5 | Tee BSP DN 150x150 mm | Pcs | 1.00 |
| 6 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 12.00 |
| 7 | Bolt and Nut | pcs | 40.00 |
| 8 | Rubber Packing τ=5 mm DN. 150 mm | pcs | 10.00 |
| 9 | Reducer Concentric BSP DN 150x100 mm | Pcs | 1.00 |
| 10 | Loose Flange Carbon Steel PN 16 DN. 100 mm | Pcs | 11.00 |
| 11 | Blind Flange BSP PN 16 DN. 100 mm | Pcs | 1.00 |
| 12 | Bend 90° BSP DN. 100 mm | Pcs | 3.00 |
| 13 | Bend 45° BSP DN. 100 mm | Pcs | 4.00 |
| 14 | Pipa BSP Kelas Medium, DN. 100 mm | m' | 45.00 |
| 15 | Bolt and Nut M16 x 45 mm | pcs | 48.00 |
| 16 | Socket 3000 DN 25mm | Pcs | 6.00 |
| 17 | Pipa GIP Kelas Medium, DN. 25 mm | m' | 30.00 |

| | | | | | |
|--|------|---|-----|----------|--|
| | 18 | Ball Valve Kuningan Drat Dalam DN 25 mm | pcs | 6.00 | |
| | 19 | Solenoid Valve Normally Open DN. 25 mm | pcs | 6.00 | |
| | 20 | Check Valve Kuningan Drat Dalam DN 25 mm | pcs | 6.00 | |
| | 21 | Tee SS Drat Dalam DN 25 mm | Pcs | 24.00 | |
| | 22 | Socket SS Drat Dalam DN 25 mm | Pcs | 24.00 | |
| | 23 | Bend SS Drat Dalam DN 25 mm | Pcs | 30.00 | |
| | 24 | Double Napple SS 25 mm drat luar | Pcs | 60.00 | |
| | 25 | Diffuser | set | 1.00 | |
| | 18.2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| | 1 | Flexible Joint PN 16 DN. 150 mm | Pcs | 2.00 | |
| | 2 | Butterfly Valve Flanged Connection DN 150 mm | Pcs | 2.00 | |
| | 3 | Bend 90° BSP DN.150 mm | Pcs | 6.00 | |
| | 4 | Tee DN 150 mm | Pcs | 1.00 | |
| | 5 | Pipa BSP Kelas Medium, DN. 150 mm | m' | 12.00 | |
| | 6 | Reducer Cocentric DN 150x100 mm | Pcs | 1.00 | |
| | 7 | Blind Flange BSP DN. 100 mm | Pcs | 1.00 | |
| | 8 | Bend 90° BSP DN. 100 mm | Pcs | 3.00 | |
| | 9 | Bend 45° BSP DN. 100 mm | Pcs | 4.00 | |
| | 10 | Pipa BSP DN 100 mm | m' | 45.00 | |
| | 11 | Socket 3000 DN 25mm | Pcs | 6.00 | |
| | 12 | Pipa BSP DN 25 mm | m' | 30.00 | |
| | 13 | Ball Valve Kuningan Drat Dalam DN 25 mm | pcs | 6.00 | |
| | 14 | Check Valve Kuningan Drat Dalam DN 25 mm | pcs | 6.00 | |
| | 15 | Tee SS 304 Drat Dalam DN 25 mm | Pcs | 24.00 | |
| | 16 | Socket SS 304 Drat Dalam DN 25 mm | Pcs | 24.00 | |
| | 17 | Bend SS 304 Drat Dalam DN 25 mm | Pcs | 30.00 | |
| | 18 | Double Napple SS 304 25 mm drat luar | Pcs | 60.00 | |
| | 19 | Pengelasan | cm | 3,125.88 | |
| | 20 | Pengecatan Pipa | | | |
| | - | Dalam Dengan Cat anti karat | m² | 22.15 | |
| | - | Luar Dengan Cat anti karat | m² | 25.65 | |
| | 19 | Pengadaan dan Pemasangan Instalasi Perpipaan Kimia | | | |
| | 1 | Pipa PVC AW DN 25 mm | btg | 10.00 | |
| | 2 | Pipa PVC AW DN 50 mm | btg | 6.00 | |
| | 3 | Ball Valve PVC DN 25 mm | pcs | 18.00 | |
| | 4 | Ball Valve Gagang Stainless DN 50mm | pcs | 14.00 | |
| | 5 | Tee PVC DN 25 mm | Pcs | 12.00 | |
| | 6 | Tee PVC DN 50 mm | Pcs | 6.00 | |
| | 7 | Bend PVC DN 25 mm | Pcs | 24.00 | |
| | 8 | Bend PVC DN 50 mm | Pcs | 10.00 | |
| | 9 | Watermur PVC DN 25 mm | Pcs | 18.00 | |
| | 10 | Watermur PVC DN 50 mm | Pcs | 6.00 | |
| | 11 | Reducer PVC DN 50x25 mm | Pcs | 6.00 | |
| | 12 | Socket Polos PVC DN 25mm | Pcs | 14.00 | |
| | 13 | Socket Polos PVC DN 50mm | Pcs | 6.00 | |
| | 14 | Socket Drat Luar PVC DN 25mm | Pcs | 24.00 | |
| | 15 | Socket 3000 DN 16mm | Pcs | 10.00 | |
| | 16 | Socket 3000 DN 25mm | Pcs | 20.00 | |
| | 17 | Y Strainer PVC DN 25 mm | Pcs | 9.00 | |
| | 18 | Rotameter 1 Inchi | Pcs | 4.00 | |
| | 20 | Pengadaan dan Pemasangan Instalasi Perpipaan Air Sampel | | | |
| | 1 | Pipa HDPE PN 12.5 I Inchi | m' | 355.00 | |
| | - | Galian Tanah | m3 | 17.75 | |
| | - | Urugan Tanah | m3 | 17.42 | |
| | - | Buangan Tanah | m3 | 0.33 | |
| | 2 | Pipa PVC AWW DN 25 mm | btg | 10.00 | |
| | 3 | Pipa PVC AWW DN 15 mm | btg | 10.00 | |
| | 4 | Pipa GIP Kelas Medium, DN. 25 mm | m' | 6.00 | |
| | 5 | Keran 1 inchi | pcs | 10.00 | |
| | 6 | Ball Valve PVC DN 25 mm | pcs | 20.00 | |
| | 7 | Ball Valve PVC DN 16 mm | pcs | 20.00 | |
| | 8 | Ball Valve Union PVC DN 16 mm | pcs | 10.00 | |
| | 9 | Ball Valve Kuningan Drat Dalam DN 25 mm | pcs | 20.00 | |
| | 10 | Ball Valve Kuningan Drat Dalam DN 16 mm | Pcs | 20.00 | |
| | 11 | Tee Reducer GIP 25 mm x 15 mm drat dalam | Pcs | 15.00 | |
| | 12 | Tee PVC DN 25 mm | Pcs | 15.00 | |
| | 13 | Tee PVC DN 16 mm | Pcs | 15.00 | |
| | 14 | Bend PVC DN 25 mm | Pcs | 20.00 | |
| | 15 | Bend PVC DN 16 mm | Pcs | 20.00 | |
| | 16 | Bend GIP Drat Dalam DN 25 mm | Pcs | 20.00 | |
| | 17 | Watermur PVC DN 25 mm | Pcs | 10.00 | |
| | 18 | Reducer PVC DN 25x15 mm | Pcs | 20.00 | |
| | 19 | Socket Polos PVC DN 25mm | Pcs | 20.00 | |
| | 20 | Socket Drat Dalam PVC DN 25mm | Pcs | 15.00 | |
| | 21 | Socket Drat Dalam PVC DN 15mm | Pcs | 10.00 | |

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|--|---------------------------------------|----------------|----------|---|
| | III.5 Pekerjaan Recycling Tank | | | |
| | 1 Pekerjaan Tanah | | | |
| | - Galian Tanah | M ³ | 183.51 | |
| | - Urugan Tanah | M ³ | 5.96 | |
| | - Buangan Tanah | M ³ | 177.56 | |
| | 2 Pekerjaan Beton | | | |
| | - Lantai Kerja K-125 (t=10 cm) | M ³ | 3.97 | |
| | - Beton K-300 | M ³ | 24.65 | |
| | - Pembesian | kg | 3,650.05 | |
| | - Bekisting | M2 | 228.37 | |
| | | | | Jumlah Sub Total III.5 |
| | | | | JUMLAH TOTAL (III.1 + III.2 + + III.5) |

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pekerjaan Bangunan Penunjang
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|---------------------------|--|--------|-----------|-------------------|----------------------|
| 1 | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| IV | PEKERJAAN BANGUNAN PENUNJANG | | | | |
| IV.1 | Pekerjaan Bangunan Scada dan Kimia | | | | |
| | IV.1.1 Pekerjaan Tanah dan Pondasi | | | | |
| | 1 Galian Tanah | m3 | 184.00 | | |
| | 2 Pondasi Setempat Beton K300 | m3 | 10.15 | | |
| | 3 Pondasi Menerus (Batu Belah) | m3 | 92.00 | | |
| | 4 Buangan Tanah | m3 | 184.00 | | |
| | IV.1.2 Pekerjaan Beton Bertulang | | | | |
| | 1 Sloof 300 x 300 : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 16.56 | | |
| | - Bekisting | m2 | 110.40 | | |
| | - Pemesian | kg | 2,152.80 | | |
| | 2 Kolom 300 x 300 : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 19.08 | | |
| | - Bekisting | m2 | 254.40 | | |
| | - Pemesian | kg | 2,480.40 | | |
| | 3 Ring Balok 300 x 300 : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 25.20 | | |
| | - Bekisting | m2 | 252.00 | | |
| | - Pemesian | kg | 3,276.00 | | |
| | 4 Lantai : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 259.20 | | |
| | - Bekisting | m2 | 320.80 | | |
| | - Pemesian | kg | 38,880.00 | | |
| | 5 Atap : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 70.40 | | |
| | - Bekisting | m2 | 443.20 | | |
| | - Pemesian | kg | 10,560.00 | | |
| | 6 Bak Kimia : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 27.00 | | |
| | - Bekisting | m2 | 180.00 | | |
| | - Pemesian | kg | 3,510.00 | | |
| | IV.1.3 Pekerjaan Pasangan Bata Dinding | | | | |
| | - Pasangan Bata | m2 | 1,264.00 | | |
| | - Acian Dinding | m2 | 2,528.00 | | |
| | - Plesteran Dinding | m2 | 2,528.00 | | |
| | IV.1.4 Pekerjaan Pintu dan Jendela | | | | |
| | 1 Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (4,00 x 2,40 m) 1 unit | m2 | 9.60 | | |
| | 2 Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (2,00 x 2,40 m) 1 unit | m2 | 4.80 | | |
| | 3 Jendela Jalusi Aluminium (6,0 x 0,6 m) 4 unit | m' | 52.80 | | |
| | 4 Jendela Jalusi Aluminium (3,0 x 0,6 m) 6 unit | m' | 43.20 | | |
| | IV.1.5 Pengecatan | m2 | 2,528.00 | | |
| Jumlah Sub Total I | | | | | |
| IV.2 | Pekerjaan Bangunan Pompa Distribusi | | | | |
| | IV.2.1 Pekerjaan Tanah dan Pondasi | | | | |
| | 1 Galian Tanah | m3 | 104.00 | | |
| | 2 Pondasi Setempat Beton K300 | m3 | 5.92 | | |
| | 3 Pondasi Menerus (Batu Belah) | m3 | 52.00 | | |
| | 4 Buangan Tanah | m3 | 104.00 | | |
| | IV.2.2 Pekerjaan Beton Bertulang | | | | |
| | 1 Sloof 300 x 300 : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 18.72 | | |
| | - Bekisting | m2 | 124.80 | | |
| | - Pemesian | kg | 2,433.60 | | |
| | 2 Kolom 300 x 200 : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 23.04 | | |
| | - Bekisting | m2 | 307.20 | | |
| | - Pemesian | kg | 2,995.20 | | |
| | 3 Ring Balok 300 x 300 : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 18.72 | | |
| | - Bekisting | m2 | 187.20 | | |
| | - Pemesian | kg | 2,433.60 | | |
| | 4 Lantai : | | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 57.60 | | |
| | - Bekisting | m2 | 16.80 | | |
| | - Pemesian | kg | 8,640.00 | | |

| | | | | |
|-----------------------------|--|----|----------|--|
| | 5 Atap : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 38.40 | |
| | - Bekisting | m2 | 204.80 | |
| | - Pemesian | kg | 5,760.00 | |
| | IV.2.3 Pekerjaan Pasangan Bata Dinding | | | |
| | 1 Pasangan Bata | m2 | 544.00 | |
| | 2 Acian Dinding | m2 | 1,088.00 | |
| | 3 Plesteran Dinding | m2 | 1,088.00 | |
| | IV.2.4 Pekerjaan Pintu dan Jendela | | | |
| | 1 Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (3,00 x 2,40 m) 3 unit | m2 | 21.60 | |
| | 2 Jendela Jalusi Aluminium (3,0 x 0,6 m) 6 unit | m' | 43.20 | |
| | IV.2.5 Pengecatan | m2 | 1,088.00 | |
| Jumlah Sub Total II | | | | |
| IV.3 | Pekerjaan Bangunan Trafo dan Cubicle | | | |
| | IV.3.1 Pekerjaan Tanah dan Pondasi | | | |
| | 1 Galian Tanah | m3 | 74.00 | |
| | 2 Pondasi Setempat Beton K300 | m3 | 2.54 | |
| | 3 Pondasi Menerus (Batu Belah) | m3 | 21.00 | |
| | 4 Buangan Tanah | m3 | 74.00 | |
| | IV.3.2 Pekerjaan Beton Bertulang | | | |
| | 1 Sloof 300 x 300 : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 3.78 | |
| | - Bekisting | m2 | 25.20 | |
| | - Pemesian | kg | 491.40 | |
| | 2 Kolom 300 x 200 : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 3.24 | |
| | - Bekisting | m2 | 43.20 | |
| | - Pemesian | kg | 421.20 | |
| | 3 Ring Balok 300 x 300 : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 4.59 | |
| | - Bekisting | m2 | 45.90 | |
| | - Pemesian | kg | 596.70 | |
| | 4 Lantai : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 21.60 | |
| | - Bekisting | m2 | 7.80 | |
| | - Pemesian | kg | 3,240.00 | |
| | 5 Atap : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 14.40 | |
| | - Bekisting | m2 | 78.80 | |
| | - Pemesian | kg | 2,160.00 | |
| | IV.3.3 Pekerjaan Pasangan Bata Dinding | | | |
| | 1 Pasangan Bata | m2 | 168.00 | |
| | 2 Acian Dinding | m2 | 336.00 | |
| | 3 Plesteran Dinding | m2 | 336.00 | |
| | IV.3.4 Pekerjaan Pintu dan Jendela | | | |
| | 1 Pintu Kaca Rangka Aluminium (2 unit) | m2 | 8.40 | |
| | 2 Jendela Kaca Rangka Aluminium (4 unit) | m2 | 7.20 | |
| | IV.3.5 Pengecatan | m2 | 336.00 | |
| Jumlah Sub Total III | | | | |
| IV.4 | Pekerjaan Bangunan Gardu PLN | | | |
| | IV.4.1 Pekerjaan Tanah dan Pondasi | | | |
| | 1 Galian Tanah | m3 | 40.00 | |
| | 2 Pondasi Setempat Beton K300 | m3 | 1.69 | |
| | 3 Pondasi Menerus (Batu Belah) | m3 | 10.00 | |
| | 4 Buangan Tanah | m3 | 40.00 | |
| | IV.4.2 Pekerjaan Beton Bertulang | | | |
| | 1 Sloof 300 x 300 : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 1.80 | |
| | - Bekisting | m2 | 12.00 | |
| | - Pemesian | kg | 234.00 | |
| | 2 Kolom 300 x 300 : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 2.16 | |
| | - Bekisting | m2 | 28.80 | |
| | - Pemesian | kg | 280.80 | |
| | 3 Ring Balok 300 x 300 : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 1.80 | |
| | - Bekisting | m2 | 18.00 | |
| | - Pemesian | kg | 234.00 | |
| | 4 Lantai : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 7.20 | |
| | - Bekisting | m2 | 4.80 | |
| | - Pemesian | kg | 1,080.00 | |
| | 5 Atap : | | | |
| | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 4.80 | |
| | - Bekisting | m2 | 28.00 | |
| | - Pemesian | kg | 720.00 | |
| | IV.4.3 Pekerjaan Pasangan Bata Dinding | | | |
| | 1 Pasangan Bata | m2 | 80.00 | |

| | | | | | |
|--|---|--|-------|-----------|----------------------------|
| | 2 | Acian Dinding | m2 | 160.00 | |
| | 3 | Plesteran Dinding | m2 | 160.00 | |
| | IV.4.4 Pekerjaan Pintu dan Jendela | | | | |
| | 1 | Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (4,00 x 2,40 m) 1 unit | m2 | 9.60 | |
| | 2 | Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (1,00 x 2,40 m) 6 unit | m2 | 14.40 | |
| | 3 | Jendela Jalusi Aluminium (3,0 x 0,6 m) 4 unit | m2 | 43.20 | |
| | IV.4.5 Pengecatan | | | | |
| | | | m2 | 160.00 | |
| | | | | | Jumlah Sub Total IV |
| IV.5 Pekerjaan Bangunan Gas Chlorine | | | | | |
| IV.5.1 Pekerjaan Tanah dan Pondasi | | | | | |
| | 1 | Galian Tanah | m3 | 112.80 | |
| | 2 | Pondasi Setempat Beton K300 | m3 | 3.81 | |
| | 3 | Pondasi Menerus (Batu Belah) | m3 | 71.36 | |
| | 4 | Urugan Tanah Kembali | m3 | 22.56 | |
| | 5 | Buangan Tanah | m3 | 90.24 | |
| IV.5.2 Pekerjaan Beton Bertulang | | | | | |
| | 1 Sloof 200 x 300 : | | | | |
| | | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 6.69 | |
| | | - Bekisting | m2 | 66.90 | |
| | | - Pemesian | kg | 802.80 | |
| | 2 Kolom 300 x 300 : | | | | |
| | | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 8.91 | |
| | | - Bekisting | m2 | 118.80 | |
| | | - Pemesian | kg | 1,336.50 | |
| | 3 Ring Balok 300 x 400 : | | | | |
| | | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 8.34 | |
| | | - Bekisting | m2 | 69.50 | |
| | | - Pemesian | kg | 1,251.00 | |
| | 4 Lantai : | | | | |
| | | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 44.10 | |
| | | - Bekisting | m2 | 13.40 | |
| | | - Pemesian | kg | 5,292.00 | |
| | 5 Atap : | | | | |
| | | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 48.68 | |
| | | - Bekisting | m2 | 318.15 | |
| | | - Pemesian | kg | 5,354.80 | |
| | 6 Dudukan Pondasi : | | | | |
| | | - Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 5.17 | |
| | | - Bekisting | m2 | 16.87 | |
| | | - Pemesian | kg | 620.67 | |
| IV.5.3 Pekerjaan Pasangan Bata Dinding | | | | | |
| | 1 | Pasangan Bata | m2 | 539.00 | |
| | 2 | Acian Dinding | m2 | 1,078.00 | |
| | 3 | Plesteran Dinding | m2 | 1,078.00 | |
| IV.5.4 Pekerjaan Pintu dan Jendela | | | | | |
| | 1 | Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (4,00 x 2,40 m) 1 unit | m2 | 9.60 | |
| | 2 | Pintu besi plat baja tebal 3,0 mm rangkap, rangka baja siku (1,00 x 2,40 m) 6 unit | m2 | 14.40 | |
| | 3 | Jendela Jalusi Aluminium (3,0 x 0,6 m) 4 unit | #REF! | 43.20 | |
| | IV.5.5 Pengecatan | | | | |
| | | | m2 | 1,078.00 | |
| | | | | | Jumlah Sub Total V |
| IV.6 Fasiitas Pendukung lainnya | | | | | |
| IV.6.1 Konstruksi Jalan Lingkungan Area WTP | | | | | |
| | 1 | Pekerjaan Pemadatan serta Perataan Lahan | m3 | 275.20 | |
| | 2 | Lps. Pond. Ag. Kls. A, CBR Min 80% (Tebal 30 cm) | m3 | 412.80 | |
| | 3 | Timbunan dengan Tanah Pilihan (Tebal 20 cm) | m3 | 275.20 | |
| | 4 | Beton mutu f'c = 26,4 Mpa (K-300) | m3 | 412.80 | |
| | 5 | Bekisting | m2 | 208.80 | |
| | 6 | Pemesian | kg | 33,024.00 | |
| IV.6.2 Pengadaan dan Pemasangan Pagar Keliling Area WTP | | | | | |
| | 1 Pondasi Setempat | | | | |
| | | - Galian | m3 | 24.00 | |
| | | - Buangan Tanah | m3 | 24.00 | |
| | | - Lantai Kerja | m3 | 2.40 | |
| | 3 | Beton K-100 t=0,1 m | m3 | 4.80 | |
| | 4 | Pondasi Beton K175 0,3x0,3x0,5 tinggi 80 cm Per Jarak 2,40 m | m3 | 3.02 | |
| | 5 | Sloop balok K175 0,2x0,3 m | m3 | 9.60 | |
| | 6 | Kolom antar Pagar BRC | m3 | 6.43 | |
| | 7 | Pagar BRC Halarag ; Tinggi = 1,50 m, Diameter 4,0 mm , spasi antar kawat 100 mm | m' | 160.00 | |
| IV.6.3 Saluran Drainase Air Hujan | | | | | |
| | 1 | Galian | m3 | 102.40 | |
| | 2 | Buangan Tanah | m3 | 102.40 | |
| | 3 | Lantai Kerja | m3 | 4.10 | |
| | 4 | Beton K-100 t=0,1 m | m3 | 0.51 | |
| | 5 | Saluran Terbuka U-Ditch 80 X 80 Cm | m' | 160.00 | |
| IV.6.4 Pengadaan dan Pemasangan Bioseptic Tank | | | | | |
| | 1 | Galian | m3 | 10.50 | |
| | 2 | Buangan Tanah | m3 | 10.50 | |
| | 3 | Lantai Kerja | m3 | 0.23 | |

| | | | | | | |
|--|---------------------------|-------------------------------------|------|----------|---|--|
| | 4 | Beton K-100 t=0,1 m | m3 | 0.45 | | |
| | 5 | Bioseptic Tank Kapasitas 5000 liter | unit | 1.00 | | |
| | 6 | Pekerjaan Perpipaan | Ls | 1.00 | | |
| | 7 | Perapihan kembali | Ls | 1.00 | | |
| | IV.6.5 Landscaping | | | | | |
| | 1 | Pohon dan Tanaman | Ls | 1.00 | | |
| | 2 | Rumput | m2 | 1,750.00 | | |
| | | | | | <i>Jumlah Sub Total VI</i> | |
| | | | | | JUMLAH TOTAL (IV.1 + IV.2 + + IV.6) | |

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pembangunan Reservoir Glass Steel Kapasitas 3000 m3
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|----------|--|----------------|-----------|-------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| V | Pekerjaan Reservoir Glass Steel Kapasitas 3000 m3 | | | | |
| | V.1 Pekerjaan Tanah | | | | |
| | 1 Galian Tanah | m ³ | 766.35 | | |
| | 2 Urugan Tanah | m ³ | 27.68 | | |
| | 3 Buangan Tanah | m ³ | 738.67 | | |
| | | | | | <i>Jumlah Sub Total V.1</i> |
| | V.2 Pekerjaan Beton dan Tangki Glass Stell 3000 m³ | | | | |
| | 1 BorePile Ø 60 cm, P = 4 m | | | | |
| | - Pengeboran Ø 60 cm | m | 480.00 | | |
| | - Beton K-350 | m ³ | 135.65 | | |
| | - Pemesian | kg | 13,423.22 | | |
| | - Sewa Casing Borepile Ø 60 cm | m | 480.00 | | |
| | 2 Pekerjaan Slab Reservoir | | | | |
| | - Lantai kerja | m ³ | 82.07 | | |
| | - Beton K-300 Readymiks f'c' 30 MPA | m ³ | 656.59 | | |
| | - Bekisting Lantai | m ² | 81.26 | | |
| | - Besi Beton | kg | 53,399.27 | | |
| | 3 Reservoir Glass Steel 3000 m ³ | ls | 1.00 | | |
| | | | | | <i>Jumlah Sub Total V.2</i> |
| | | | | | JUMLAH TOTAL (V.1 + V.2) |

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pengadaan dan Pemasangan Pipa Transmisi Air Baku Sampai Distribusi
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|-----------|---|----------------|-----------|----------------------|-------------------------|
| 1 | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| VI | Pengadaan dan Pemasangan Pipa Transmisi Air Baku Sampai Distribusi | | | | |
| | VI.1 Pekerjaan Pipa dan Aksesoris Intake - Header Pompa Intake | | | | |
| | 1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 300 mm | m' | 30.00 | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 12.00 | | |
| | - Bend 90° BSP DN. 300 mm | Bh | 3.00 | | |
| | - Reducer BSP DN 800x600 mm | Bh | 1.00 | | |
| | - Tee Y BSP DN. 800x300 mm | Bh | 3.00 | | |
| | - Gate Valve PN 16 DN 300 mm | Bh | 3.00 | | |
| | - Check Valve PN 16 DN. 300 mm | Bh | 3.00 | | |
| | - Flexible Joint PN 16 DN. 300 mm | Bh | 3.00 | | |
| | - Strainer PN 16 DN 300mm | Bh | 3.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 300 mm | Bh | 21.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 800 mm | Bh | 1.00 | | |
| | - Blind Flange BSP PN 16 DN. 800 mm | Bh | 1.00 | | |
| | - Rubber Packing t=5 mm DN. 300 mm | Bh | 21.00 | | |
| | - Rubber Packing t=5 mm DN. 800 mm | Bh | 1.00 | | |
| | - Bolt and Nut M33 x 150 mm | Bh | 296.00 | | |
| | 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 300 mm | m' | 30.00 | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 12.00 | | |
| | - Bend 90° BSP DN. 300 mm | Bh | 3.00 | | |
| | - Reducer BSP DN 800x600 mm | Bh | 1.00 | | |
| | - Tee Y BSP DN. 800x300 mm | Bh | 3.00 | | |
| | - Gate Valve PN 16 DN 300 mm | Bh | 3.00 | | |
| | - Check Valve PN 16 DN. 300 mm | Bh | 3.00 | | |
| | - Flexible Joint PN 16 DN. 300 mm | Bh | 3.00 | | |
| | - Strainer PN 16 DN 300mm | Bh | 3.00 | | |
| | - Pengelasan | cm | 7,571.24 | | |
| | - Pengecatan Pipa | | | | |
| | Dalam Dengan Cat anti karat | m ² | 58.43 | | |
| | Luar Dengan Cat anti karat | m ² | 61.18 | | |
| | Jumlah Sub Total VI.1 | | | | |
| | VI.2 Pekerjaan Pipa dan Aksesoris Transmisi Intake-IPA | | | | |
| | 1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 600 mm | m' | 6.00 | | |
| | - Pipa HDPE PN 12.5 DN. 600 mm | m' | 342.00 | | |
| | - Bend 45° BSP DN. 600 mm | Bh | 4.00 | | |
| | - Bend 90° HDPE PN 12.5 DN. 600 mm | Bh | 3.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 600 mm | Bh | 2.00 | | |
| | - Stub End Flange PN 12.5 DN. 600 mm | pcs | 2.00 | | |
| | - Rubber Packing t=5 mm DN. 600 mm | Bh | 2.00 | | |
| | 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | - Pekerjaan Galian Pipa HDPE | | | | |
| | - Galian Tanah | m3 | 646.38 | | |
| | - Urugan Tanah | m3 | 96.65 | | |
| | - Buangan Tanah | m3 | 549.73 | | |
| | - Pipa BSP Kelas Medium, DN. 600 mm | m' | 6.00 | | |
| | - Pipa HDPE PN 12.5 DN. 600 mm | m' | 342.00 | | |
| | - Bend 45° BSP DN. 600 mm | Bh | 4.00 | | |
| | - Bend 90° HDPE PN 12.5 DN. 600 mm | Bh | 3.00 | | |
| | - Stub End Flange PN 12.5 DN. 600mm | pcs | 2.00 | | |
| | - Pengelasan | cm | 753.98 | | |
| | - Pengecatan Pipa | | | | |
| | Dalam Dengan Cat anti karat | m ² | 11.31 | | |

| | | | | |
|---|--|----------------|-----------|------------------------------|
| | Luar Dengan Cat anti karat | m ² | 11.50 | |
| | | | | Jumlah Sub Total VI.2 |
| VI.3 Pekerjaan Pipa dan Aksesoris Inlet IPA | | | | |
| 1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 600 mm | m' | 30.00 | |
| | - Pipa BSP Kelas Medium, DN. 400 mm | m' | 72.00 | |
| | - Bend 45° BSP DN. 600 mm | pcs | 1.00 | |
| | - Bend 90° BSP DN. 400 mm | pcs | 30.00 | |
| | - Tee Y BSP DN. 600X600 mm | pcs | 2.00 | |
| | - Reducer BSP DN. 600x500 mm | pcs | 2.00 | |
| | - Butterfly Valve Flanged Connection PN 16 DN. 600 mm | pcs | 3.00 | |
| | - Butterfly Valve Double Connection PN 16 DN. 400 mm | pcs | 6.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 600 mm | pcs | 6.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 500 mm | pcs | 2.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 400 mm | pcs | 36.00 | |
| | - Rubber Packing t=5 mm DN. 600 mm | pcs | 6.00 | |
| | - Rubber Packing t=5 mm DN. 500 mm | pcs | 2.00 | |
| | - Rubber Packing t=5 mm DN. 400 mm | pcs | 24.00 | |
| | - Bolt and Nut M24 x 85 mm | pcs | 448.00 | |
| 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium DN. 600 mm | m' | 30.00 | |
| | - Pipa BSP Kelas Medium, DN. 400 mm | m' | 72.00 | |
| | - Bend 45° BSP DN. 600 mm | pcs | 1.00 | |
| | - Bend 90° BSP, DN. 400 mm | pcs | 30.00 | |
| | - Tee Y BSP DN. 600X600 mm | pcs | 2.00 | |
| | - Reducer BSP DN. 600x500 mm | pcs | 2.00 | |
| | - Butterfly Valve PN 16 DN. 600 mm | pcs | 3.00 | |
| | - Butterfly Valve Double Connection PN 16 DN. 400 mm | pcs | 6.00 | |
| | - Pengelasan | cm | 22,493.80 | |
| | - Pengecatan Pipa | | | |
| | Dalam Dengan Cat anti karat | m ² | 147.03 | |
| | Luar Dengan Cat anti karat | m ² | 149.42 | |
| | | | | Jumlah Sub Total VI.3 |
| VI.4 Pekerjaan Pipa dan Aksesoris Sludge Pit | | | | |
| 1 an Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 100 mm | m' | 18.00 | |
| | - Bend 45° BSP DN. 100 mm | Pcs | 3.00 | |
| | - Butterfly Valve Double Connection PN 16 DN. 100 mm | Pcs | 1.00 | |
| | - Check Valve Flanged Connection Pn 16 DN. 100 mm | Pcs | 1.00 | |
| | - Flexible Joint PN 16 DN. 100 mm | Pcs | 1.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 100 mm | Pcs | 5.00 | |
| | - Rubber Packing t=5 mm DN. 100 mm | pcs | 3.00 | |
| | - Bolt and Nut M16 x 45 mm | pcs | 40.00 | |
| 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 100 mm | m' | 18.00 | |
| | - Bend 45° BSP DN. 100 mm | Pcs | 3.00 | |
| | - Butterfly Valve Double Connection PN 16 DN. 100 mm | Pcs | 1.00 | |
| | - Check Valve Flanged Connection Pn 16 DN. 100 mm | Pcs | 1.00 | |
| | - Flexible Joint PN 16 DN. 100 mm | Pcs | 1.00 | |
| | - Pengelasan | cm | 596.90 | |
| | - Pengecatan Pipa | | | |
| | Dalam Dengan Cat anti karat | m ² | 5.65 | |
| | Luar Dengan Cat anti karat | m ² | 6.46 | |
| | | | | Jumlah Sub Total VI.4 |
| VI.5 Pekerjaan Pipa dan Aksesoris Recycling Tank | | | | |
| 1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 150 mm | m' | 42.00 | |
| | - Bend 90° BSP DN. 150 mm | Pcs | 3.00 | |
| | - Butterfly Valve Flanged Double Connection PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Check Valve PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Strainer PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Flexible Joint PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 150 mm | Pcs | 5.00 | |
| | - Rubber Packing t=5 mm DN. 150 mm | pcs | 3.00 | |
| | - Bolt and Nut M20 x 60 mm | pcs | 40.00 | |

| | | | | |
|---|--|----------------|----------|--|
| 2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 150 mm | m' | 42.00 | |
| | - Bend 90° BSP DN. 150 mm | Pcs | 3.00 | |
| | - Butterfly Valve Flanged Double Connection PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Check Valve PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Strainer PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Flexible Joint PN 16 DN. 150 mm | Pcs | 1.00 | |
| | - Pengelasan | cm | 1,083.85 | |
| | - Pengecatan Pipa | | | |
| | Dalam Dengan Cat anti karat | m ² | 19.79 | |
| | Luar Dengan Cat anti karat | m ² | 22.21 | |
| Jumlah Sub Total VI.5 | | | | |
| VI.6 Pekerjaan Pipa dan Aksesoris Outlet IPA ke Tangki | | | | |
| 1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 66.00 | |
| | - Bend 45° BSP DN. 800 mm | pcs | 1.00 | |
| | - Bend 90° BSP DN. 800 mm | pcs | 2.00 | |
| | - Blind Flange BSP PN 16 DN. 800 mm | pcs | 1.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 800 mm | pcs | 2.00 | |
| | - Rubber Packing t=5 mm DN. 800 mm | pcs | 2.00 | |
| | - Bolt and Nut M33 x 150 mm | pcs | 48.00 | |
| 2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 66.00 | |
| | - Bend 45° BSP DN. 800 mm | pcs | 1.00 | |
| | - Bend 90° BSP DN. 800 mm | pcs | 2.00 | |
| | - Blind Flange BSP PN 16 DN. 800 mm | pcs | 1.00 | |
| | - Pengelasan | cm | 2,513.27 | |
| | - Pengecatan Pipa | | | |
| | Dalam Dengan Cat Foodgrade | m ² | 165.88 | |
| | Luar Dengan Cat anti karat | m ² | 168.57 | |
| Jumlah Sub Total VI.6 | | | | |
| VI.7 Pekerjaan Pipa dan Aksesoris Drain dan Overflow Tangki | | | | |
| 1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 400 mm | m' | 6.00 | |
| | - Bend 90° BSP DN. 400 mm | pcs | 1.00 | |
| | - Tee BSP DN. 400x400 mm | pcs | 1.00 | |
| | - Butterfly Valve Flanged Double Connection PN 16 DN. 400 mm | Pcs | 1.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 400 mm | pcs | 2.00 | |
| | - Rubber Packing t=5 mm DN. 400 mm | pcs | 3.00 | |
| | - Bolt and Nut M24 x 85 mm | pcs | 48.00 | |
| 2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 400 mm | m' | 6.00 | |
| | - Bend 90° BSP DN. 400 mm | pcs | 1.00 | |
| | - Tee BSP DN. 400x400 mm | pcs | 1.00 | |
| | - Butterfly Valve Flanged Double Connection PN 16 DN. 400 mm | Pcs | 1.00 | |
| | - Pengelasan | cm | 1,256.64 | |
| | - Pengecatan Pipa | | | |
| | Dalam Dengan Cat anti karat | m ² | 7.54 | |
| | Luar Dengan Cat anti karat | m ² | 7.66 | |
| Jumlah Sub Total VI.7 | | | | |
| VI.8 Pekerjaan Pipa dan Aksesoris Tangki - Header Pompa Distribusi | | | | |
| 1 | Pekerjaan Pengadaan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 30.00 | |
| | - Bend 45° BSP DN. 800 mm | Pcs | 4.00 | |
| | - Tee Y BSP DN. 800x600 mm | Pcs | 3.00 | |
| | - Butterfly Valve Flanged Connection PN 16 DN 800 mm | Pcs | 1.00 | |
| | - Blind Flange BSP PN 16 DN. 800 mm | Pcs | 1.00 | |
| | - Loose Flange Carbon Steel PN 16 DN. 800 mm | Pcs | 3.00 | |
| | - Rubber Packing t=5 mm DN. 800 mm | pcs | 2.00 | |
| | - Bolt and Nut M33 x 150 mm | pcs | 48.00 | |
| 2 | Pekerjaan Pemasangan Pipa dan Aksesoris : | | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 30.00 | |
| | - Bend 45° BSP DN. 800 mm | Pcs | 4.00 | |
| | - Tee Y BSP DN. 800x600 mm | Pcs | 3.00 | |
| | - Butterfly Valve Flanged Connection PN 16 DN 800 mm | Pcs | 1.00 | |

| | | | | | |
|---|---|----------------|----------|--|--|
| | - Blind Flange BSP PN 16 DN. 800 mm | Pcs | 1.00 | | |
| | - Pengelasan | cm | 7,791.15 | | |
| | - Pengecatan Pipa | | | | |
| | Dalam Dengan Cat Foodgrade | m ² | 75.40 | | |
| | Luar Dengan Cat anti karat | m ² | 76.62 | | |
| Jumlah Sub Total VI.8 | | | | | |
| VI.9 Pekerjaan Pipa dan Aksesoris Inlet Pompa Distribusi | | | | | |
| | 1 Pekerjaan Pengadaan Pipa dan Aksesoris: | | | | |
| | - Pipa BSP Kelas Medium, DN. 600 mm | m' | 12.00 | | |
| | - Bend 45° BSP DN. 600 mm | Pcs | 3.00 | | |
| | - Butterfly Valve Flanged Connection PN 16 DN. 600 mm | Pcs | 3.00 | | |
| | - Flexible Joint PN 16 DN. 600 mm | Pcs | 3.00 | | |
| | - Reducer Eccentric BSP DN. 600X500 mm | Pcs | 3.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 500 mm | Pcs | 3.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 600 mm | Pcs | 6.00 | | |
| | - Rubber Packing t=5 mm DN. 500 mm | pcs | 3.00 | | |
| | - Rubber Packing t=5 mm DN. 600 mm | pcs | 9.00 | | |
| | - Bolt and Nut M24 x 85 mm | pcs | 240.00 | | |
| | 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 600 mm | m' | 12.00 | | |
| | - Bend 45° BSP DN. 600 mm | Pcs | 3.00 | | |
| | - Butterfly Valve Flanged Connection PN 16 DN. 600 mm | Pcs | 3.00 | | |
| | - Flexible Joint PN 16 DN. 600 mm | Pcs | 3.00 | | |
| | - Reducer Eccentric BSP DN. 600X500 mm | Pcs | 3.00 | | |
| | - Pengelasan | cm | 4,335.40 | | |
| | - Pengecatan Pipa | | | | |
| | Dalam Dengan Cat Foodgrade | m ² | 22.62 | | |
| | Luar Dengan Cat anti karat | m ² | 23.00 | | |
| Jumlah Sub Total VI.9 | | | | | |
| VI.10 Pekerjaan Pipa dan Aksesoris Outlet Pompa Distribusi | | | | | |
| | 1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 400 mm | m' | 12.00 | | |
| | - Bend 45° BSP DN. 400 mm | Pcs | 3.00 | | |
| | - Butterfly Valve Flanged Connection PN 16 DN. 400 mm | Pcs | 3.00 | | |
| | - Check Valve Flanged Connection PN 16 DN. 400 mm | Pcs | 3.00 | | |
| | - Flexible Joint PN 16 DN. 400 mm | Pcs | 3.00 | | |
| | - Reducer Eccentric BSP DN. 400X300 mm | Pcs | 3.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 300 mm | Pcs | 3.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 400 mm | Pcs | 6.00 | | |
| | - Rubber Packing t=5 mm DN. 300 mm | pcs | 3.00 | | |
| | - Rubber Packing t=5 mm DN. 400 mm | pcs | 12.00 | | |
| | - Bolt and Nut M20 x 60 mm | pcs | 300.00 | | |
| | 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| | - Pipa BSP Kelas Medium, DN. 400 mm | m' | 12.00 | | |
| | - Bend 45° BSP DN. 400 mm | Pcs | 3.00 | | |
| | - Butterfly Valve Flanged Connection PN 16 DN. 400 mm | Pcs | 3.00 | | |
| | - Check Valve Flanged Connection PN 16 DN. 400 mm | Pcs | 3.00 | | |
| | - Flexible Joint PN 16 DN. 400 mm | Pcs | 3.00 | | |
| | - Reducer Eccentric BSP DN. 400X300 mm | Pcs | 3.00 | | |
| | - Pengelasan | cm | 3,078.76 | | |
| | - Pengecatan Pipa | | | | |
| | Dalam Dengan Cat Foodgrade | m ² | 15.08 | | |
| | Luar Dengan Cat anti karat | m ² | 15.32 | | |
| Jumlah Sub Total VI.10 | | | | | |
| VI.11 Pekerjaan Pipa dan Aksesoris Jaringan Distribusi Utama | | | | | |
| | 1 Pekerjaan Pengadaan Pipa dan Aksesoris : | | | | |
| | - Pipa HDPE PN 12.5 DN. 800 mm | m' | 1,300.00 | | |
| | - Pipa BSP Kelas Medium, DN. 800 mm | m' | 920.00 | | |
| | - Bend 45° BSP DN. 800 mm | Pcs | 2.00 | | |
| | - Tee Y BSP DN. 800x400 mm | Pcs | 3.00 | | |
| | - Stub End Flange PN 12.5 DN. 800 mm | pcs | 4.00 | | |
| | - Gate Valve PN 16 DN 800 mm | Pcs | 1.00 | | |
| | - Blind Flange BSP PN 16 DN. 800 mm | Pcs | 1.00 | | |
| | - Loose Flange Carbon Steel PN 16 DN. 800 mm | Pcs | 4.00 | | |
| | - Rubber Packing t=5 mm DN. 800 mm | pcs | 5.00 | | |

| | | | | |
|--|----------------|----------|--|--|
| - Bolt and Nut M33 x 150 mm | pcs | 120.00 | | |
| 2 Pekerjaan Pemasangan Pipa dan Aksesoris : | | | | |
| - Pekerjaan Tanah | | | | |
| - Galian Tanah | m ³ | 3,289.00 | | |
| - Urugan Tanah | m ³ | 653.12 | | |
| - Buangan Tanah | m ³ | 2,635.88 | | |
| - Pipa HDPE PN 12.5 DN. 800 mm | m' | 1,300.00 | | |
| - Pipa BSP Kelas Medium, DN. 800 mm | m' | 920.00 | | |
| - Bend 45° BSP DN. 800 mm | Pcs | 2.00 | | |
| - Tee Y BSP DN. 800x400 mm | Pcs | 3.00 | | |
| - Stub End Flange PN 12.5 DN. 800 mm | pcs | 4.00 | | |
| - Gate Valve PN 16 DN 800 mm | Pcs | 1.00 | | |
| - Blind Flange BSP PN 16 DN. 800 mm | Pcs | 1.00 | | |
| - Pengelasan | cm | 5,277.88 | | |
| - Pengecatan Pipa | | | | |
| Dalam Dengan Cat Foodgrade | m ² | 2,312.21 | | |
| Luar Dengan Cat anti karat | m ² | 2,349.79 | | |
| Jumlah Sub Total VI.11 | | | | |
| VI.12 Pekerjaan Pipa dan Aksesoris Service Pump | | | | |
| 1 Pengadaan Instalasi Service Pump | | | | |
| - Pipa HDPE PN 12.5 I Inchi | m' | 150.00 | | |
| - Pipa BSP Kelas Medium, DN. 100 mm | m' | 30.00 | | |
| - Pipa BSP Kelas Medium, DN. 80 mm | m' | 24.00 | | |
| - Bend 90° BSP DN. 100 mm | Pcs | 4.00 | | |
| - Bend 90° BSP DN. 80 mm | Pcs | 10.00 | | |
| - Male Threaded Adaptor HDPE (MTA) I Inchi | Pcs | 10.00 | | |
| - Female Threaded Elbow (FTE) I Inchi | Pcs | 10.00 | | |
| - Tee BSP DN. 80x80 mm | Pcs | 10.00 | | |
| - Butterfly Valve Flanged Connection PN 16 DN. 80 mm | Pcs | 4.00 | | |
| - Check Valve Flanged Connection Pn 16 DN. 100 mm | Pcs | 2.00 | | |
| - Flexible Joint PN 16 DN. 80 mm | Pcs | 4.00 | | |
| - Reducer Eccentric BSP DN. 100x80 mm | Pcs | 2.00 | | |
| - Blind Flange BSP PN 16 DN. 100 mm | Pcs | 1.00 | | |
| - Blind Flange BSP PN 16 DN. 80 mm | Pcs | 1.00 | | |
| - Loose Flange Carbon Steel PN 16 DN. 80 mm | Pcs | 7.00 | | |
| - Loose Flange Carbon Steel PN 16 DN. 100 mm | Pcs | 5.00 | | |
| - Rubber Packing t=5 mm DN. 80 mm | Pcs | 13.00 | | |
| - Rubber Packing t=5 mm DN. 100 mm | Pcs | 7.00 | | |
| - Bolt and Nut M16 x 45 mm | pcs | 60.00 | | |
| - Keran I inchi | pcs | 5.00 | | |
| - Selang I Inchi | m' | 100.00 | | |
| 2 Pemasangan Instalasi Service Pump | | | | |
| - Pekerjaan Tanah | | | | |
| - Galian Tanah | m3 | 7.50 | | |
| - Urugan Tanah | m3 | 7.36 | | |
| - Buangan Tanah | m3 | 0.14 | | |
| - Pipa BSP Kelas Medium, DN. 100 mm | m' | 30.00 | | |
| - Pipa BSP Kelas Medium, DN. 80 mm | m' | 24.00 | | |
| - Bend 90° BSP DN. 100 mm | Pcs | 4.00 | | |
| - Bend 90° BSP DN. 80 mm | Pcs | 10.00 | | |
| - Tee BSP DN. 80x80 mm | Pcs | 10.00 | | |
| - Butterfly Valve Flanged Connection PN 16 DN. 80 mm | Pcs | 4.00 | | |
| - Check Valve Flanged Connection PN 16 DN. 100 mm | Pcs | 2.00 | | |
| - Flexible Joint PN 16 DN. 80 mm | Pcs | 4.00 | | |
| - Reducer Eccentric DN. 100x80 mm | Pcs | 2.00 | | |
| - Blind Flange BSP DN. 100 mm | Pcs | 1.00 | | |
| - Blind Flange BSP DN. 80 mm | Pcs | 1.00 | | |
| - Pengelasan | cm | 2,431.59 | | |
| - Pengecatan Pipa | | | | |
| Dalam Dengan Cat Foodgrade | m ² | 15.46 | | |
| Luar Dengan Cat anti karat | m ² | 17.48 | | |
| Jumlah Sub Total VI.12 | | | | |
| Jumlah Sub Total VI.12 Rp - | | | | |
| JUMLAH TOTAL (VI.1 + VI.2 + + VI.12) Rp - | | | | |

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pengadaan dan Pemasangan Mekanikal dan Instrumen
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|--|--|--------|-----------|-------------------------------|----------------------|
| 1 | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| VII. Pengadaan dan Pemasangan Mekanikal dan Instrumen | | | | | |
| VII.1 Pengadaan dan Pemasangan Pompa | | | | | |
| 1 | Pengadaan dan Pemasangan Pompa Intake | Unit | 2.00 | | |
| | - Kapasitas 280 LPS | | | | |
| | - Head 30 m | | | | |
| 2 | Pengadaan dan Pemasangan Pompa Clean Water Service | Unit | 2.00 | | |
| | - Kapasitas 10 LPS | | | | |
| | - Head 20 m | | | | |
| 3 | Pengadaan dan Pemasangan Pompa Submersible Sludge Treatment | Unit | 2.00 | | |
| | - Kapasitas 50 m3/jam | | | | |
| | - Head 20 m | | | | |
| 4 | Pengadaan dan Pemasangan Pompa Submersible Recycling | Unit | 2.00 | | |
| | - Kapasitas 75 LPS | | | | |
| | - Head 20 m | | | | |
| 5 | Pengadaan dan Pemasangan Pompa Distribusi | Unit | 2.00 | | |
| | - Kapasitas 250 l/s | | | | |
| | - Head 120 m | | | | |
| | | | | Jumlah Sub Total VII.1 | |
| VII.2 Pengadaan dan Pemasangan Instrumentasi | | | | | |
| 1 | Pengadaan dan Pemasangan Sistem SCADA | | | | |
| | - Pengadaan SCADA System | Set | 1.00 | | |
| | - Software Scada Runtime License, 4096 Tags | | | | |
| | - Software Development Scada | | | | |
| | - PC Intel Processor i7-13700 , 16gb Ram DDR5 , 1tb Nvme , Original Windows 11 | | | | |
| | - Monitor 24" + HDTV 60" | | | | |
| | - Pengadaan dan Pemasangan Streaming Current Monitor (SCM) Loop Control | Unit | 1.00 | | |
| | - Pengadaan dan Pemasangan pH Analyzer (Mounting Kit dan Kalibrasi Kit) | Unit | 3.00 | | |
| | - Pengadaan dan Pemasangan Turbidity Analyzer (Mounting Kit dan Kalibrasi Kit) | Unit | 3.00 | | |
| | - Pengadaan dan Pemasangan Turbidity Analyzer Raw Water (Mounting Kit dan Kalibrasi Kit) | Unit | 1.00 | | |
| | - Pengadaan dan Pemasangan Chlorine Analyzer (Mounting Kit dan Kalibrasi Kit) | Unit | 1.00 | | |
| | - Pengadaan dan Pemasangan Colour Analyzer (Mounting Kit dan Kalibrasi Kit) | Unit | 2.00 | | |
| | - Pengadaan dan Pemasangan Multiparameter Controller | Unit | 6.00 | | |
| | - Jasa Pemograman Scada & PLC | Paket | 1.00 | | |
| | - Pemograman Scada & konfigurasi Sistem komunikasi Scada dengan Main PLC | | | | |
| | - Pemograman PLC & Konfigurasi Komunikasi Dengan Remote IO | | | | |
| | - Testing & Pengujian System | | | | |
| | - Pengadaan dan Pemasangan Ultrasonic Level Sensor 0-10 m | Unit | 1.00 | | |
| | - Pengadaan dan Pemasangan Ultrasonic Level Sensor 0-6 m | Unit | 8.00 | | |
| | - Pengadaan dan Pemasangan Jaringan Internet 20Mbps | paket | 1.00 | | |
| | - Pressure Transmitter 0-3 bar + Aksesoris | Unit | 8.00 | | |
| | - Pressure Transmitter 0-5 bar + Aksesoris | Unit | 3.00 | | |
| | - Pressure Gauge 0-5 bar + Aksesoris | Unit | 21.00 | | |
| | - Pressure Switch 0-5 bar + Aksesoris | Unit | 5.00 | | |
| | - Pressure Safety Valve + Aksesoris | Unit | 2.00 | | |
| | - Pengadaan dan Pemasangan Kabel Control Instrument | | | | |
| | - Kabel Control Panel Streaming Current Monitor (SCM) Loop ke Panel IPA | m | 25.00 | | |
| | - Flokulasi LIYCY-JZ 3Cx1.5mmSq | | | | |
| | - Kabel Control pH Analyzer Dari Laboratorium Ke Main PLC LIYCY-JZ | m | 30.00 | | |
| | - 3Cx1.5mmSq | | | | |
| | - Kabel Control Turbidity Analyzer Dari Laboratorium Ke Main PLC LIYCY-JZ | m | 40.00 | | |
| | - 3Cx1.5mmSq | | | | |
| | - Kabel Control Chlorine Analyzer Dari Laboratorium Ke Main PLC LIYCY-JZ | m | 10.00 | | |
| | - 3Cx1.5mmSq | | | | |
| | - Kabel Control Colour Analyzer Dari Laboratorium Ke Main PLC LIYCY-JZ | m | 20.00 | | |
| | - 3Cx1.5mmSq | | | | |
| | - Kabel Control Ultrasonic Level Sensor 0-10 m Dari Reservoar Ke Panel Recycle | m | 50.00 | | |
| | - LIYCY-JZ 3Cx1.5mmSq | | | | |
| | - Kabel Control Ultrasonic Level Sensor 0-6 m Dari Filter Ke Panel Filtrasi LIYCY- | m | 100.00 | | |
| | - JZ 3Cx1.5mmSq | | | | |
| | - Kabel Control Electromagnetic Flowmeter Dia 500 mm Dari IPA Ke | m | 80.00 | | |
| | - Laboratorium LIYCY-JZ 3Cx1.5mmSq | | | | |

| | | | | |
|---|-------|----------|--|--|
| - Kabel Control Electromagnetic Flowmeter Dia 500 mm Dari Distribusi Area Ke Laboratorium LIYCY-JZ 3Cx1.5mmSq | m | 80.00 | | |
| - Kabel Control Electromagnetic Flowmeter Dia 150 mm Dari Service Area Ke Laboratorium LIYCY-JZ 3Cx1.5mmSq | m | 30.00 | | |
| - Kabel Control Pressure Transmitter 0-5 bar dari Pipa Intake ke Panel Intake LIYCY-JZ 3Cx1.5mmSq | m | 50.00 | | |
| - Kabel Control Pressure Transmitter 0-5 bar dari Pipa Distribusi ke Panel Distribusi LIYCY-JZ 3Cx1.5mmSq | m | 30.00 | | |
| - Kabel Control Pressure Transmitter 0-5 bar dari Pipa Water Service ke Panel Service LIYCY-JZ 3Cx1.5mmSq | m | 30.00 | | |
| - Kabel Control Pressure Transmitter 0-3 bar Dari Filtrasi Ke Panel IPA Filtrasi LIYCY-JZ 3Cx1.5mmSq | m | 150.00 | | |
| - Kabel Control Pressure Switch dari Pipa Intake ke Panel Intake LIYCY-JZ 3Cx1.5mmSq | m | 50.00 | | |
| - Kabel Control Pressure Switch dari Pipa Distribusi ke Panel Distribusi LIYCY-JZ 3Cx1.5mmSq | m | 50.00 | | |
| - Kabel Control Pressure Switch Di Air & Water Service LIYCY-JZ 3Cx1.5mmSq | m | 20.00 | | |
| - Kabel Komunikasi Serial LVMDV ke Panel MCC Distribusi LIYCY-JZ 3Cx1.5mmSq | m | 30.00 | | |
| - Kabel Control IO LVMDV Ke Panel MCC Distribusi LIYCY-JZ 20Cx1mmSq | m | 30.00 | | |
| - Kabel Control Dari tangki Recycle & Holding tank Ke panel Recycle & Holding LIYCY-JZ 3Cx1.5mmSq | m | 100.00 | | |
| - Pengadaan dan Pemasangan Kabel Control Pneumatic | | | | |
| - Kabel Control Pneumatic dari Actuator ke Panel Flokulasi , Sedimentasi & Flotasi | m | 1,125.00 | | |
| - Kabel Control Pneumatic Filtrasi Dari Actuator ke Panel Filtrasi LIYCY-JZ 6Cx1.1mmSq | m | 1,280.00 | | |
| - Pengadaan dan Pemasangan Kabel Komunikasi PLC & Distributed IO | | | | |
| - Kabel Komunikasi PLC dan Distributed IO CAT 6 | m | 650.00 | | |
| - Pengadaan dan Pemasangan Kabel Fiber Optic Dari Main Panel Ke MCC Intake | | | | |
| - Kabel Fiber Optic 4 core | m | 350.00 | | |
| - Jasa tanam & Galian | m | 350.00 | | |
| - Jasa Splicing , Terminasi & Tes OTDR | titik | 2.00 | | |
| - Pengadaan Kabel Tray , Conduit & Accesoris | | | | |
| - Kabel Tray Area IPA Kabel Tray 100x50 Type U Galvanized Complete with Cover | m | 450.00 | | |
| - Jasa Pemasangan Kabel Tray & Peralatan Pendukung | m | 450.00 | | |
| - Pipa Conduit 20mm | m | 450.00 | | |
| - Accesoris Pipa Conduit | ls | 1.00 | | |
| - Pengadaan dan Pemasangan Panel Main PLC | unit | 1.00 | | |
| - Panel Box 1900(h)x1000(w)x600(d) | | | | |
| - PLC CPU Work memory 300kb | | | | |
| - Expantion Digital Input 32ch 24vdc | | | | |
| - Expantion Digital Output 32ch 24vdc | | | | |
| - Expantion Analog Input 8ch | | | | |
| - Expantion Analog Output 8ch | | | | |
| - Estop Switch Disconnecter | | | | |
| - Surge Arrester | | | | |
| - RCBO 2P 25A 300mA | | | | |
| - Ethernet Switch Hub 8 Port | | | | |
| - MCB 1p 10a | | | | |
| - Peralatan dan Accesoris Pendukung | | | | |
| - Pengadaan dan Pemasangan Panel Remote & Lokal Flokulasi , Sedimentasi & Flotasi | unit | 3.00 | | |
| - Panel Box 1900(h)x1500(w)x400(d) | | | | |
| - Distributed IO Module , 2xRj45 , max32 IO card | | | | |
| - Expantion Remote IO Digital Input 16x 24vdc | | | | |
| - Expantion Remote IO Digital Output 16x 24vdc | | | | |
| - Expantion Remote IO analog Input 8ch | | | | |
| - Expantion Remote IO analog Output 8ch | | | | |
| - Estop Switch Disconnecter | | | | |
| - Surge Arrester | | | | |
| - RCBO 2P 25A 300mA | | | | |
| - Ethernet Switch Hub 8 Port | | | | |
| - Relay & Socket | | | | |
| - PushButton & Indicator Lamp | | | | |
| - MCB 1p 10a | | | | |
| - Peralatan dan Accesoris Pendukung | | | | |
| - Pengadaan dan Pemasangan Panel Remote & Lokal Filtrasi | Unit | 2.00 | | |
| - Panel Box 1900(h)x1500(w)x400(d) | | | | |
| - Distributed IO Module , 2xRj45 , max32 IO card | | | | |
| - Expantion Remote IO Digital Input 16x 24vdc | | | | |
| - Expantion Remote IO Digital Output 16x 24vdc | | | | |
| - Expantion Remote IO analog Input 8ch | | | | |
| - Expantion Remote IO analog Output 8ch | | | | |
| - Estop Switch Disconnecter | | | | |
| - Surge Arrester | | | | |
| - RCBO 2P 25A 300mA | | | | |
| - Ethernet Switch Hub 8 Port | | | | |

| | | | | | |
|---|---|------|-------|--|---|
| | - Relay & Socket | | | | |
| | - PushButton & Indicator Lamp | | | | |
| | - MCB Ip 10a | | | | |
| | - Peralatan dan Accesoris Pendukung | | | | |
| | | | | | Jumlah Sub Total VII.2 |
| | VII.3 Pengadaan dan Pemasangan Mekanikal dan Instrumen Pendukung | | | | |
| 1 | Pengadaan dan Pemasangan Gas Klorin + Scrubber | Unit | 1.00 | | |
| | - Kapasitas 10 kg/jam | | | | |
| 2 | sangan Hoist Crane 1 ton | Unit | 1.00 | | |
| 3 | sangan Hoist Crane 5 ton | Unit | 1.00 | | |
| 4 | Pengadaan dan Pemasangan Hoist Crane 10 ton | Unit | 2.00 | | |
| 5 | Pemasangan CCTV | Unit | 20.00 | | |
| 6 | Pengadaan dan Pemasangan Electromagnetic Flowmeter Dia 150 mm | Unit | 1.00 | | |
| 7 | Pengadaan dan Pemasangan Electromagnetic Flowmeter Dia 500 mm | Unit | 2.00 | | |
| 8 | Pengadaan Alat Laboratorium | | | | |
| | - Pengadaan Jar Test 6 Silinder | Unit | 1.00 | | |
| | - Pengadaan Imhoff Cone 1000 ml | Unit | 1.00 | | |
| | - Pengadaan Erlenmeyer 1000 ml | Unit | 6.00 | | |
| | - Pengadaan Pipet Gondok 10 ml + karet | Unit | 2.00 | | |
| | - Pengadaan Labu Ukur 1000 ml | Unit | 2.00 | | |
| | - pH portable Analyzer | Unit | 1.00 | | |
| | - Turbidity Portable Analyzer | Unit | 1.00 | | |
| | - Color Portable Analyzer | Unit | 1.00 | | |
| | - Free Chlorine Portable Analyzer | Unit | 1.00 | | |
| | - Timbangan Analitik 500 gram | Unit | 1.00 | | |
| | | | | | Jumlah Sub Total VII.3 |
| | | | | | JUMLAH TOTAL (VII.1 + VII.2 + VII.3) |

DAFTAR KUANTITAS DAN HARGA

Pekerjaan : Pembangunan WTP 500 l/dtk di Waduk Duriangkang dan Jaringan Pipa
 Paket Pekerjaan : Pengadaan dan Pemasangan Penyambungan Daya dan Kelistrikan
 Lokasi Pekerjaan : Waduk Duriangkang
 Tahun Anggaran : 2024

| No | Uraian Pekerjaan | Satuan | Kuantitas | Harga Satuan (Rp) | Harga Pekerjaan (Rp) |
|--------------------------------|--|--------|-----------|-------------------|----------------------|
| 1 | 2 | 3 | 4 | 6 | 7 = (4 x 6) |
| VIII | Pengadaan dan Pemasangan Penyambungan Daya dan Kelistrikan | | | | |
| | VIII.1 Pengadaan dan Pemasangan Main Power LV & MV | | | | |
| | 1 Penyambungan daya PLN 2000kVA | Ls | 1.00 | | |
| | - Biaya penyambungan | | | | |
| | - Uang jaminan langganan | | | | |
| | - Jasa Sertifikat Layak Operasi | | | | |
| | - Jaminan Instalasi | | | | |
| | - Jasa (Pengurusan dan Teknis Lapangan) | | | | |
| | - Biaya Pengurusan dan Teknis Lapangan | | | | |
| | 2 Pengadaan dan pemasangan cubicle costumer (1 incoming & 2 out going) | Unit | 1.00 | | |
| | - Unit cubicle 1in2out | | | | |
| | - Man hours pemasangan | | | | |
| | 3 Pengadaan dan pemasangan cubicle Trafo intake (incoming & out going) | Unit | 1.00 | | |
| | - Unit cubicle inout | | | | |
| | - Man hours pemasangan | | | | |
| | 4 Pengadaan dan pemasangan trafo IPA 1600kVA, 20 kv 400/231 V, ONAN, 3ph, 50 Hz, Dyn 5 | Unit | 1.00 | | |
| | - Unit Trafo | | | | |
| | - Man hours pemasangan | | | | |
| | 5 Pengadaan dan pemasangan trafo intake 400kva, 20 kv 400/231 V, ONAN, 3ph, 50 Hz, Dyn | Unit | 1.00 | | |
| | - Unit Trafo | | | | |
| | - Man hours pemasangan | | | | |
| | 6 Pengadaan dan pemasangan panel LVMDP & capasitor bank | Unit | 1.00 | | |
| | - Panel Box 3900X1900X1000 | | | | |
| | - ACB Main 4P 2500A 50ka | | | | |
| | - ACB Distribusi 3P 2500A 50ka | | | | |
| | - Capacitor 512kvar 12 Step A/M | | | | |
| | - MCCB 3P 1250A 50ka | | | | |
| | - MCCB 3P 400A 36ka | | | | |
| | - MCCB 3P 125A 36ka | | | | |
| | - MCCB 3P 100A 36ka | | | | |
| | - MCCB 3P 63A 36ka | | | | |
| | - MCCB 3P 20 A 36ka | | | | |
| | - MCCB 3P10 A 8ka | | | | |
| | - Indicator,busbar,accessories,etc | | | | |
| | 7 Pengadaan dan pemasangan panel SDP gas chlor | Unit | 1.00 | | |
| | - Panel Box | | | | |
| | - Mccb 3P | | | | |
| | - Remote IO PLC | | | | |
| | - Indicator,accessories,etc | | | | |
| | 8 Pengadaan dan pemasangan panel SDP IPA | Unit | 1.00 | | |
| | - Panel Box | | | | |
| | - Mccb 3P | | | | |
| | - Indicator,accessories,etc | | | | |
| | 9 Pengadaan dan pemasangan panel SDP ruang compressor | Unit | 1.00 | | |
| | - Panel Box | | | | |
| | - Mccb 3P | | | | |
| | - Mcb 3P | | | | |
| | - Indicator,accessories,etc | | | | |
| | 10 Pengadaan dan pemasangan panel PJU | Unit | 1.00 | | |
| | - Panel Box | | | | |
| | - Mccb 3P | | | | |
| | - Mcb 3P | | | | |
| | - Indicator,accessories,etc | | | | |
| | 11 Pengadaan dan Pemasangan Penerangan dan Utility IPA | ls | 1.00 | | |
| | 12 Pengadaan dan Pemasangan PJU | set | 2.00 | | |
| Jumlah Sub Total VIII.1 | | | | | |
| | VIII.2 Pengadaan dan Pemasangan Motor Control center (MCC) | | | | |
| | 1 Pengadaan dan pemasangan panel VSD transmisi 450kW | Unit | 2.00 | | |
| | - Box Panel | | | | |
| | - Mccb 1250 A 50Ka | | | | |
| | - Vsd 450 kw,50Hz,380400Vac, | | | | |
| | - Remote IO PLC | | | | |

| | | | | | |
|---|--|------|--------|--|--|
| | - Indicator,accessories,etc | | | | |
| 2 | Pengadaan dan pemasangan panel VSD intake 3x160kW | Unit | 1.00 | | |
| | - Box Panel | | | | |
| | - Mccb 400 A 36Ka | | | | |
| | - Vsd 160 kw,50Hz,380400Vac, | | | | |
| | - Remote IO PLC | | | | |
| | - Indicator,accessories,etc | | | | |
| 3 | Pengadaan dan Pemasangan panel dosing Pump & Agitator | Unit | 1.00 | | |
| | - Box Panel | | | | |
| | - Mccb 30 A 25Ka | | | | |
| | - Vsd 0,37 kw,50Hz,380400Vac, | | | | |
| | - kontaktor 0,374kw,50Hz,380400Vac, | | | | |
| | - motor breaker 0,374kw,50Hz,380400Vac, | | | | |
| | - Remote IO PLC | | | | |
| | - Indicator,accessories,etc | | | | |
| 4 | Pengadaan dan Pemasangan Panel pompa recycle | Unit | 1.00 | | |
| | - Box Panel | | | | |
| | - Mccb 70 A 25Ka | | | | |
| | - Vsd 22 kw,50Hz,380400Vac, | | | | |
| | - Vsd 5,5 kw,50Hz,380400Vac, | | | | |
| | - Indicator,accessories,etc | | | | |
| 5 | Pengadaan dan Pemasangan panel air & water service | Unit | 1.00 | | |
| | - Box Panel | | | | |
| | - Mccb 400 A 25Ka | | | | |
| | - Vsd 15 kw,50Hz,380400Vac, | | | | |
| | - motor breaker 3p 22 kw | | | | |
| | - motor breaker 3p 15 kw | | | | |
| | - kontaktor 15kw | | | | |
| | - Remote IO PLC | | | | |
| | - Indicator,accessories,etc | | | | |
| Jumlah Sub Total VIII.2 | | | | | |
| VIII.3 Pengadaan dan Pemasangan Kabel Power & MV | | | | | |
| 1 | Pengadaan dan pemasangan kabel power PLN incoming cubicle costumer N2XSEBY 1 x 3c x 150 Sqmm | M | 20.00 | | |
| 2 | Pengadaan dan pemasangan kabel power cubicle costumer outgoing 1 Trafo 1600kVA N2XSY 3 x 1c x 95 Sqmm | M | 10.00 | | |
| 3 | Pengadaan dan pemasangan kabel power cubicle costumer outgoing 2 cubicle incoming intake N2XSEBY 1 x 3c x 35mm | M | 350.00 | | |
| 4 | Pengadaan dan pemasangan kabel power cubicle incoming intake Trafo 315kVA N2XSY 3 x 1c x 35mm | M | 10.00 | | |
| 5 | Pengadaan dan pemasangan kabel power trafo 1600kVA LVMDP NYY 18 x 1c x 300Sqmm RST+ NYY 2 x 1c x 300Sqmm N | M | 15.00 | | |
| 6 | Pengadaan dan pemasangan kabel power LVMDP SDP IPA NYFGBY 4c x 25mm | M | 100.00 | | |
| 7 | Pengadaan dan pemasangan kabel power LVMDP SDP Air & water service NYY 4c x 16mm | M | 40.00 | | |
| 8 | Pengadaan dan pemasangan kabel power LVMDP SDP Gas chlor NYFGBY 4c x 16mm | M | 130.00 | | |
| 9 | Pengadaan dan pemasangan kabel power LVMDP Panel PJU NYFGBY 4c x 10mm | M | 25.00 | | |
| 10 | Pengadaan dan pemasangan kabel power Panel PJU NYFGBY 4c x 10mm | M | 300.00 | | |
| 11 | Pengadaan dan pemasangan kabel power LVMDP VSD pompa transmisi 1 NYY 6 x 1c x 300mm RST + NYY 1 x 1c x 4mm N | M | 15.00 | | |
| 12 | Pengadaan dan pemasangan kabel power LVMDPVSD pompa transmisi 2 NYY 6 x 1c x 300mm RST + NYY 1 x 1c x 4mm N | M | 12.00 | | |
| 13 | Pengadaan dan pemasangan kabel power LVMDPVSD pompa transmisi 3 NYY 6 x 1c x 300mm RST + NYY 1 x 1c x 4mm N | M | 15.00 | | |
| 14 | Pengadaan dan pemasangan kabel power Trafo 315kVA MDP intake NYY 6 x 1c x 150mm RST + NYY 1 x 1c x 150mm N | M | 5.00 | | |
| 15 | Pengadaan dan pemasangan kabel power MDP intake VSD intake 3x110kW NYY 6 x 1c x 150mm RST + NYY 1 x 1c x 150mm N | M | 20.00 | | |
| 16 | Pengadaan dan pemasangan kabel power LVMDP panel dosing agitator NYY 4c x 10mm | M | 70.00 | | |
| 17 | Pengadaan dan pemasangan kabel power LVMDP Panel pompa recycle NYRGBY 4c x 6mm | M | 10.00 | | |
| 18 | Pengadaan dan pemasangan kabel power LVMDP panel air & water service NYY 1 x 4c x 95mm | M | 70.00 | | |
| Jumlah Sub Total VIII.3 | | | | | |
| VIII.4 Pengadaan dan Pemasangan Kabel motor/pompa | | | | | |
| 1 | Pengadaan dan pemasangan kabel motor VSD transmisi 1 pompa transmisi 1 NYY 2 x 4c x 300mm RSTG | M | 30.00 | | |
| 2 | Pengadaan dan pemasangan kabel motor VSD transmisi 2 pompa transmisi 2 NYY 2 x 4c x 300mm RSTG | M | 22.00 | | |
| 3 | Pengadaan dan pemasangan kabel motor VSD transmisi 3 pompa transmisi 3 NYY 2 x 4c x 300mm RSTG | M | 15.00 | | |
| 4 | Pengadaan dan pemasangan kabel motor VSD intake 1 pompa intake 1 NYY 4c x 150mm | M | 20.00 | | |

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| 5 | Pangadaan dan pemasangan kabel motor VSD intake 2 pompa intake 2 NYY 4c x150mm | M | 20.00 | | |
| 6 | Pangadaan dan pemasangan kabel motor VSD intake 3 pompa intake 3 NYY 4c x150mm | M | 20.00 | | |
| 7 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing alum 1 NYYHY 4c x1.5mm | M | 20.00 | | |
| 8 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing alum 2 NYYHY 4c x1.5mm | M | 20.00 | | |
| 9 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing alum 3 NYYHY 4c x1.5mm | M | 20.00 | | |
| 10 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing kapur 1 NYYHY 4c x1.5mm | M | 20.00 | | |
| 11 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing kapur 2 NYYHY 4c x1.5mm | M | 20.00 | | |
| 12 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing kapur 3 NYYHY 4c x1.5mm | M | 20.00 | | |
| 13 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing polymer 3 NYYHY 4c x1.5mm | M | 20.00 | | |
| 14 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Dosing polymer 3 NYYHY 4c x1.5mm | M | 20.00 | | |
| 15 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Agitator alum NYYHY 4c x2.5mm | M | 20.00 | | |
| 16 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Agitator kapur 1 NYYHY 4c x2.5mm | M | 20.00 | | |
| 17 | Pangadaan dan pemasangan kabel motor panel chemical prepararation Agitator kapur 2 NYYHY 4c x2.5mm | M | 20.00 | | |
| 18 | Pangadaan dan pemasangan kabel motor panel pompa recycle Pompa recycle 1 NYYHY 4c x4 mm | M | 15.00 | | |
| 19 | Pangadaan dan pemasangan kabel motor panel pompa recycle Pompa recycle 2 NYYHY 4c x4 mm | M | 15.00 | | |
| 20 | Pangadaan dan pemasangan kabel motor panel air & water service Pompa backwash 1 NYY 2 x 4c x 10mm | M | 35.00 | | |
| 21 | Pangadaan dan pemasangan kabel motor panel air & water service Pompa backwash 2 NYY 2 x 4c x 10mm | M | 35.00 | | |
| 22 | Pangadaan dan pemasangan kabel motor panel air & water service Air blower 1 NYY 2 x 4c x 6mm | M | 30.00 | | |
| 23 | Pangadaan dan pemasangan kabel motor panel air & water service Air blower 2 NYY 2 x 4c x 6mm | M | 30.00 | | |
| 24 | Pangadaan dan pemasangan kabel motor panel air & water service Air dryer 1 NYY 1 x 3c x 2.5mm | M | 20.00 | | |
| 25 | Pangadaan dan pemasangan kabel motor panel air & water service Air dryer 2 NYY 1 x 3c x 2.5mm | M | 20.00 | | |
| 26 | Pangadaan dan pemasangan kabel motor panel air & water service Pompa service 1 NYY 1 x 4c x 6mm | M | 30.00 | | |
| 27 | Pangadaan dan pemasangan kabel motor panel air & water service Pompa service 2 NYY 1 x 4c x 6mm | M | 30.00 | | |
| 28 | Pangadaan dan pemasangan kabel motor panel air & water service Compressor 1 NYY 2 x 4c x 6mm | M | 25.00 | | |
| 29 | Pangadaan dan pemasangan kabel motor panel air & water service Compressor 2 NYY 2 x 4c x 6mm | M | 25.00 | | |
| Jumlah Sub Total VIII.4 | | | | | |
| VIII.5 Pengadaan dan Pemasangan Pendukung Kelistrikan | | | | | |
| 1 | Penangkal petir & Grounding | | | | |
| | - Pangadaan dan pemasangan penangkal petir radius 100M | titik | 1.00 | | |
| | - Pangadaan dan pemasangan titik grounding <1 ohm LVMDP | lot | 1.00 | | |
| 2 | Kabel grounding | | | | |
| | - Pangadaan dan pemasangan kabel Grounding LVMDP SDP IPA NYA 1c x 10mm | M | 100.00 | | |
| 3 | Junction Box pompa | | | | |
| | - Pangadaan dan pemasangan junction box pompa intake 1 400mm x 200mm x 500mm | unit | 1.00 | | |
| | - Pangadaan dan pemasangan junction box pompa intake 2 400mm x 200mm x 500mm | unit | 1.00 | | |
| | - Pangadaan dan pemasangan junction box pompa intake 3 400mm x 200mm x 500mm | unit | 1.00 | | |
| | - Pangadaan dan pemasangan junction box pompa recycle 200mm x 150mm x 100mm | unit | 1.00 | | |
| | - Pangadaan dan pemasangan junction box pompa holding tank 200mm x 150mm x 100mm | unit | 1.00 | | |
| 4 | Trey & jalur kabel | | | | |
| | - Cable ladder galvanized 600mm x 100mm + support angle bar | M | 15.00 | | |
| | - Cable ladder galvanized 500mm x 100mm + support angle bar | M | 15.00 | | |
| | - Cable ladder galvanized 400mm x 100mm + support angle bar | M | 65.00 | | |
| | - Cable ladder galvanized 300mm x 100mm + support angle bar | M | 15.00 | | |
| | - Cable ladder galvanized 200mm x 100mm + support angle bar | M | 55.00 | | |
| | - Cable ladder galvanized 150mm x 100mm + support angle bar | M | 10.00 | | |
| | - Cable ladder Horizontal band 600mm | pcs | 4.00 | | |

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| | - Cable ladder Horizontal band 300mm | pcs | 1.00 | | |
| | - Cable ladder Horizontal band 200mm | pcs | 2.00 | | |
| | - Cable ladder Horizontal band 150mm | pcs | 3.00 | | |
| | - Cable ladder tee 600mm to 500mm | pcs | 1.00 | | |
| | - Cable ladder tee 500mm to 500mm | pcs | 1.00 | | |
| | - Cable ladder tee 500mm to 400mm | pcs | 1.00 | | |
| | - Cable ladder tee 400mm to 300mm | pcs | 1.00 | | |
| | - Cable ladder tee 300mm to 200mm | pcs | 2.00 | | |
| | - Cable ladder tee 200mm to 200mm | pcs | 2.00 | | |
| | - Cable ladder tee 150mm to 150mm | pcs | 2.00 | | |
| | - Cable ladder right hand reducer 600mm to 400mm | pcs | 1.00 | | |
| | - Cable ladder right hand reducer 400mm to 200mm | pcs | 1.00 | | |
| | - Cable vertical band outside 600mm | pcs | 1.00 | | |
| | - Cable vertical band outside 200mm | pcs | 4.00 | | |
| | - Cable vertical band outside 150mm | pcs | 1.00 | | |
| | - Cable vertical band inside 600mm | pcs | 1.00 | | |
| | - Cable vertical band inside 200mm | pcs | 4.00 | | |
| | - Cable vertical band inside 150mm | pcs | 1.00 | | |
| | | | | Jumlah Sub Total VIII.5 | |
| | | | | JUMLAH TOTAL (VIII.1 + VIII.2 + + VIII.5) | |