

Harga Perkiraan Sendiri

Nama Pekerjaan : **Pembangunan Pembangkit Listrik Tenaga Surya (PLTS) Pompa Air untuk Mendukung Peningkatan Produksi Padi Humbahas**

Lokasi : **Desa Purba Baringin Kecamatan Pakkat Kabupaten Humbang Hasundutan**

Tahun Anggaran : **2024**

| NO. | URAIAN/ JENIS PEKERJAAN | VOLUME | | HARGA SATUAN (Rp) | JUMLAH HARGA (Rp) |
|--|---|--------|-------|--------------------|-------------------------|
| A Pekerjaan Persiapan | | | | | |
| 1 | Survey dan Pengukuran Ulang | 1,00 | Ls | 7.500.000,00 | 7.500.000,00 |
| 2 | Pembersihan Lokasi | 1,00 | Ls | 7.500.000,00 | 7.500.000,00 |
| 3 | Papan Pengenal Proyek | 1,00 | Ls | 500.000,00 | 500.000,00 |
| 4 | Mobilisasi dan Demobilisasi | 1,00 | Ls | 5.000.000,00 | 5.000.000,00 |
| 5 | Biaya K3 | 1,00 | Ls | 7.000.000,00 | 7.000.000,00 |
| | | | | Jumlah "A" | 27.500.000,00 |
| B Pekerjaan Sipil | | | | | |
| I Modul Surya | | | | | |
| 1 | Galian Pondasi | 32,00 | m3 | 90.563,00 | 2.898.016,00 |
| 2 | Pekerjaan Pondasi Batu Kosong | 6,40 | m3 | 640.976,00 | 4.102.246,40 |
| 3 | Pekerjaan Pondasi beton mutu K175 | 7,85 | m3 | 1.155.964,00 | 9.074.317,40 |
| 4 | Pembesian | 863,50 | kg | 30.004,00 | 25.908.454,00 |
| 5 | Plasteran 1 : 3 | 50,00 | m2 | 49.091,00 | 2.454.550,00 |
| 6 | Acian | 50,00 | m2 | 71.114,00 | 3.555.700,00 |
| II Rumah Pompa | | | | | |
| 1 | Galian Pondasi | 2,50 | m3 | 90.563,00 | 226.407,50 |
| 2 | Pekerjaan Pondasi Batu Kali 1 : 4 | 2,50 | m3 | 1.077.895,00 | 2.694.737,50 |
| 3 | Pekerjaan beton mutu K175 (Slof+Lantai+Kolom+Balok) | 1,86 | m3 | 1.155.964,00 | 2.150.093,04 |
| 4 | Pekerjaan Pembesian(Slof+Lantai+Kolom+Balok) | 204,60 | kg | 30.004,00 | 6.138.818,40 |
| 5 | Pekerjaan Pasangan Bata | 37,00 | m2 | 850.000,00 | 31.450.000,00 |
| 6 | Plasteran 1 : 3 | 74,00 | m2 | 49.091,00 | 3.632.734,00 |
| 7 | Plasteran 1 : 2 | 74,00 | m2 | 71.114,00 | 5.262.436,00 |
| 8 | Plafon | 28,00 | m2 | 80.000,00 | 2.240.000,00 |
| 9 | Pekejaan Atap | 28,00 | m2 | 170.000,00 | 4.760.000,00 |
| 10 | Kusen Pintu + Daun Pintu | 1,00 | Set | 1.000.000,00 | 1.000.000,00 |
| 11 | Pekerjaan Bak Kontrol (1 x 1 x 1) | 1,00 | Buah | 1.650.000,00 | 1.650.000,00 |
| 12 | Pengecatan Rumah Pompa | 1,00 | Ls | 1.500.000,00 | 1.500.000,00 |
| III Lain-Lain | | | | | |
| 1 | Support Pipa dari Pasangan Batu Kali | 1,13 | m3 | 1.077.895,00 | 1.212.631,88 |
| 2 | Galian dan Timbun Kembali Pipa | 100,00 | m | 90.563,00 | 9.056.300,00 |
| 3 | Pemasangan Pipa | 100,00 | m | 150.000,00 | 15.000.000,00 |
| 4 | Pondasi Tower Penangkal Petir | 1,00 | unit | 8.326.128,00 | 8.326.128,00 |
| 5 | Pekerjaan Pagar Pengaman Kawat berduri | 120,00 | m | 218.541,00 | 26.224.920,00 |
| 6 | Base Frame Pompa | 1,00 | Set | 3.500.000,00 | 3.500.000,00 |
| | | | | Jumlah "B" | 174.018.490,12 |
| C Pekerjaan Pump System Package | | | | | |
| 1 | PV Solar Cell 330 WP/24 V - Polycrystalline | 100,00 | Unit | 4.519.500,00 | 451.950.000,00 |
| 2 | PV Cable intermodul array with pulg-in socket | 100,00 | Set | 138.000,00 | 13.800.000,00 |
| 3 | Konstruksi Modul Support & Panel Clamp | 5,00 | Set | 29.670.000,00 | 148.350.000,00 |
| 4 | Surface Pump Kapasitas (250 - 300 m3/jam) Head Max =16 m + Controller | 1,00 | Unit | 232.500.000,00 | 232.500.000,00 |
| 5 | PV Disconnect Switch (DC Switch Box) | 2,00 | Unit | 9.602.500,00 | 19.205.000,00 |
| 6 | PV Protect 1000 V -125 A | 1,00 | Unit | 7.475.000,00 | 7.475.000,00 |
| 7 | Sensor unit (Floatswitch + Water sensor kit) | 1,00 | Set | 5.175.000,00 | 5.175.000,00 |
| 8 | Surge protector | 1,00 | Set | 517.500,00 | 517.500,00 |
| 9 | Power Cable set NYHYH 4 x 4 mm2 | 25,00 | m1 | 44.850,00 | 1.121.250,00 |
| 10 | Sensor Cable set NYHYH 2 x 0,75 mm2 | 1,00 | Roll | 523.250,00 | 523.250,00 |
| 11 | Kabel String DC Array NYAF 1 x 4 mm2 (Merah/Hitam) | 3,00 | Roll | 897.000,00 | 2.691.000,00 |
| 12 | Kabel Ouput DC Array NYAF 1 x 6 mm2 | 10,00 | m1 | 23.000,00 | 230.000,00 |
| 13 | Pemanasan Konstruksi Trakermodul dan Pondasi | 5,00 | set | 4.554.000,00 | 22.770.000,00 |
| 14 | Pengadaan dan pemasangan accesories mekanik pompa | 1,00 | set | 35.500.000,00 | 35.500.000,00 |
| | - 1 set Footvalve + Screen 6" | | | | |
| | - 1 set Water sensor steel adaptor 1" | | | | |
| | - 1 set Rubber Flexible Joint 6" | | | | |
| | - 1 set Water filler unit | | | | |
| | - 1 set Pressure gauge + steel adaptor 1/2" | | | | |
| | - 1 set Butterfly valve 6" + steel flange | | | | |
| | - 1 set Steel Reducer 6" x 8" + Steel flange 6" | | | | |
| | - 1 set Strainer 6 Inch | | | | |
| | - 1 Water Meter 6 Inch | | | | |
| 15 | Pipa Outlet HDPE 8" | 250,00 | m | 591.500,00 | 147.875.000,00 |
| 16 | Pipa Inlet Besi 6" | 12,00 | m | 450.000,00 | 5.400.000,00 |
| 17 | Elbow 6" | 2,00 | buah | 7.500.000,00 | 15.000.000,00 |
| 18 | Flange Pipa 6 Inch + Aksesoris | 4,00 | bh | 500.000,00 | 2.000.000,00 |
| 19 | Penangkal petir elektrostatis + Grounding System | 1,00 | Set | 23.000.000,00 | 23.000.000,00 |
| 20 | Pengiriman ke Port Medan + Packing Kayu (Jakarta - Lokasi Pekerjaan) | 1,00 | Paket | 25.000.000,00 | 25.000.000,00 |
| 21 | Instalasi, Test Running & Training (Pump & Solar System) | 1,00 | Paket | 20.000.000,00 | 20.000.000,00 |
| | | | | Jumlah "C" | 1.180.083.000,00 |
| IV Pekerjaan Lain-lain | | | | | |
| 1 | Sosialisasi dan Pelatihan Operator | 1,00 | Ls | 2.000.000,00 | 2.000.000,00 |
| 2 | Testing Commisioning | 1,00 | Ls | 5.455.000,00 | 5.455.000,00 |
| | | | | Jumlah "IV" | 7.455.000,00 |

| NO. | URAIAN/ JENIS PEKERJAAN | VOLUME | HARGA SATUAN (Rp) | JUMLAH HARGA (Rp) |
|-----|-------------------------|--------|-------------------|-------------------|
| | | | | |

| NO | URAIAN | JUMLAH (Rp.) |
|--|-------------------------------|-------------------------|
| 1 | PEKERJAAN PERSIAPAN | 27.500.000,00 |
| 2 | PEKERJAAN SIPIL | 174.018.490,12 |
| 3 | PEKERJAAN PUMP SYSTEM PACKAGE | 1.180.083.000,00 |
| 4 | Pekerjaan Lain-lain | 7.455.000,00 |
| JUMLAH | | 1.389.056.490,12 |
| PPN 11% | | 152.796.213,91 |
| TOTAL | | 1.541.852.704,02 |
| Pembulatan | | 1.541.852.704,00 |
| Terbilang: | | |
| <i>Satu Miliar Limaratus Empatpuluh Satu Juta Delapanratus Limapuluh Dua Ribu Tujuhratus Empat</i> | | |

Medan, Desember 2023

KEPALA DINAS PERINDUSTRIAN, PERDAGANGAN,
ENERGI DAN SUMBER DAYA MINERAL
Pencapaian Anggaran

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