

No.: PHE/MDNS/DB/3632-39

Dated: 16-08-2023

M/s K.K. Electronics & Mech. Engg. Works
Lone Mohalla Mastan Gurez Bandipora-193503
GST No: 01BKLPB4065N4Z4
Cell No: 7889446529

Adv. Cost:	Rs 14.551 Lacs
Allotted Cost:	Rs 13.877 Lacs

Subject: Electrical and mechanical works to be carried at WSS Zoonipora under JJM.1

- Reference: 1. This office e-NIT No.: e-NIT No. 47 of 2022-23, issued under endorsement No.: PHE/MDNS/DB/6636-48, dated: 10-03-2023.1
2. Authorization awarded by Member Secretary DJJM Superintending Engineer Jal Shakti (PHE) Hydraulic Circle Baramulla/Bandipore HQ at Sopore issued vide No. SE/Hyd/DB/4268-81, dated: 15-07-2023.1

Dear Sir,

For and on behalf of Lt. Governor of J&K U.T contract for execution of "Electrical and mechanical works to be carried at WSS Zoonipora under JJM" is hereby awarded to your firm on the quoted/negotiated rates, as per 'General Terms & Conditions' and 'Schedule of cost and quantities' annexed herewith as under:

Annexure A: General Terms & Conditions.

Annexure B: Schedule of cost and quantities.

Incl. _____ leaves


Executive Engineer
Jal Shakti PHE Mechanical Division (North)
Sopore

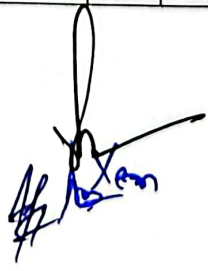
Copy to the:

1. Chief Engineer Jal Shakti (PHE) Department Kashmir, Srinagar for favour of information.
 2. District Development Commissioner _____ for favour of information.
 3. Superintending Engineer Jal Shakti (PHE) Mechanical Circle (North) Srinagar, for favour of information.
 4. Superintending Engineer Jal Shakti (PHE) Hydraulic Circle _____ HQ at _____, for favour of information.
 - i. Executive Engineer Jal Shakti (PHE) Division _____, for favour of information.
 - i. Provisional Head, TPIA JJM Kashmir, (WAPCOS Limited) Corporate Office 76-C Institutional Sector-18 Gurugram-122015 (Haryana) for favour of information.
- Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division _____ for information necessary action.
File concerned.

Annexure "B" Schedule of cost and quantities
to this office Allotment Order No: PHE/MDNS/DB/_____, dated: _____

of work: **Electrical and mechanical works to be carried at WSS Zoonipora under JJM**

Item of work	Unit	Quantity	Rate	Amount
<p>Providing, fitting, installation, testing and commissioning of Submersible pumping unit of approved make with following specifications: at Stage 1st Discharge of the Pump = 8000 GPH Dynamic Head = 80 M Speed = 1450 RPM Working Voltage = 415 ± 15 V, 03 phase PUMP: Efficiency = Not less than 50% Speed = 2900 Rpm Type of pump = Mixed flow. Type of fluid to be handled = Clear Water MATERIAL OF CONSTRUCTION: Impeller = Stainless Steel Pump Shaft = Stainless Steel SS 410. Pump Casing = Cast Iron/Stainless steel IMPELLER: Impeller is of the enclosed or semi – enclosed type and properly balanced. Enclosed Impellers equipped with seal rings on their hubs. COUPLING: A suitable coupling arrangement provided with pump set. Non-Return Valve: - Non Return Valve of the suitable size provided above the pump discharge case.</p>	Job	2	1,12,781.00	2,25,562.00
<p>Motor: Method of starting = Star – Delta/DOL (as specified) Speed = 1450 (Sync). Frequency = 50 ± 3 % Hz Working Voltage = 415 ± 15%v, 03 phase Efficiency = Not less than 90% Class of insulation = F/Suitable for above parameters Rating = Corresponding to the head and discharge not less than 12.5 HP as per IS 8034 Submersible motor should be water filled water lubricated squirrel cage type having capacity for above pumping parameters and working on 3 phase; AC supply ranging from 380 to 415 volts, 50Hz. The motor should be sealed by radial rings to avoid mixing of well water with motor filled water. a) The job includes providing and fitting of interlocking arrangement against any failure of coupling. It must be fabricated out of MS strips of suitable size and length. b) The job includes providing and fitting of appropriate size MS nipple 2 feet long threaded on one end and welded to same size MS flange of thickness (as per Table-17) at another end for column pipe as per site requirement. The threaded portion should be as per size of pumping out let for proper fixing. The job includes providing and fitting of R. I. cloth joints/rubber washers with nuts, bolts and washers for all joints of column pipe. The job also includes lowering of pumping unit in the well then proper testing and commissioning of pumping unit on full load at site. Note: Providing of test certificate & Characteristic Curve of pumping equipment is compulsory and pumping unit is to be approved from the concerned Sub Divisional office before procuring.</p>				
<p>Cutting of hot dip galvanized GI , C-Class pipe across the section by dint of pipe cutter/gas cutter. The job includes providing and welding of M.S. Flanges to the two ends of Pipe. The Thickness of flange shall conform to IS 6392 Part 1st Table-17 Dia: 80' The flange welding shall be carried out in double layers to form strong welding joint by dint of DC arc welding. The job further includes Providing and Fitting of nuts and bolts (conforming to IS:1363 Part 1st) and Rubber Insertion Gaskets (conforming to IS: 638/79) to be used between flanged joints</p>	Job	2	2,299.00	4,598.00



S. No.	Item of work	Unit	Quantity	Rate	Amount
3	<p>Dia = 80 mm PN: 1.6/16 Providing and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate/ sluice valves as per IS14846 for regulating the water supply outside the pumping units . The body and bonnet of the valve shall be of ductile iron, wedge with fully vulcanized EPDM rubber(Approved for drinking water) and NBR seal. The Gate/Sluice valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions It shall have electrostatic epoxy coating(approved for drinking water) both inside and outside of the valve. The valve shall be supplied along with hand wheel. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. The job includes providing and fitting of 02 nos. M.S flanges (Table flanges) perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job.</p>	No	1	17,302.00	17,302.00
4	<p>Size: 80 mm PN: 1.6/16 Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) as per IS 5312. The body shall be of ductile cast iron with fully encapsulated vulcanized EPDM rubber(Approved for drinking water). The valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions. It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. The job includes providing and fitting of 02 nos. M.S flanges (Table flanges) perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with Rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job.</p>	No	1	19,527.00	19,527.00
5	<p>Fabrication, providing and fitting of 80mm dia 90-120 degree bend/elbow to be fabricated out of Class B and C GI pipe, 1 m length and flanged on both ends and to make it leak proof. The flanges shall be M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16) and welded on both sides. The job includes nuts, bolts, gaskets etc. as per site requirement</p>	Job	1	2,987.00	2,987.00
6	<p>Capacity: 63 kVA Supply installation , testing and commissioning of level II HT Transformer which includes creation of pole mounted, outdoor type Electric Sub Station as per the technical specifications given here under - Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer Type of cooling: ONAN. Operating conditions: Input =11000 volts Output =433 volts AC supply in 3- phase. Terminals: Input=3 No. HT bush rods with insulators, washer, nuts etc. Output=4 No. LT bush rods switch insulators, washers, nuts etc. Core: The core shall be of high permeability to reduce core losses and the strips shall be of suitable size and gauge. Transformer Coils: Suitable number of HT and LT coils in each leg of the core. The transformer coils shall be fabricated out of superior quality aluminum wire/strips, properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest</p>	Job	1	1,71,963.00	1,71,963.00
	<p>NOTE: The scope of the work shall include obtaining of necessary inspection/clearance certificate from the concerned department for all the required equipment. The testing and commissioning shall be completed only after obtaining above certificate.</p>				
	<p>G.I V cross with top Bracket including clamps Supply, installation, erection of 9 mtrs long H.T pole of specifications ST- 410 (sp-33) . The job further includes drilling of holes for installation of various accessories .wherever required the job further includes G.I wire earthing of pole as per REC standard.</p>	Kg	30.42	149.00	4,532.58
	<p>11 kVA Polymeric Insulators 12 kV ,5kN , Lighting Impulse 75 kV Positive and 80 kV Negative with creepage distance 320mm</p>	No	3	371.00	1,113.00
	<p>P/F of Galvanized nuts, bolts of various sizes as per site requirement.</p>	Kg	10	152.00	1,520.00
	<p>Painting of poles Red oxide</p>	Litre	2	327.00	654.00
	<p>Painting of poles Aluminum paint</p>	Litre	2	554.00	1,108.00
	<p>Providing and fitting of ACSR as per IS 398 (part-2) 1996 for 50 Sq.mm ACSR (Galvanised steel reinforced) for fitment of various accessories</p>	Meter	15	59.00	885.00
	<p>GI Channel/Angle/Flat of sizes including clamps</p>	Kg	200	222.00	44,400.00

	Item of work	Unit	Quantity	Rate	Amount
14	Supply, Installation, Testing and commissioning of Polymeric Gang operated Air break switch 3 Phase, 3 Pole, 200 A, Vertical Type, outdoor type, triple pole, suitable for vertical installation, single break provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact assembly, rod with bearings , operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200A complete as per IS specs.	Set	1	12,527.00	12,527.00
15	Supply, Installation, Testing and commissioning of Gapless Surge arrester station class, 10KA, 9KV, LA With polymer housing, Station Type including providing and fitting of DO set	No	1	8,281.00	8,281.00
16	Earthing of substation- P/I of earthing station for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per IS: 3043. The job includes Auguring of bore of required dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards. Safe earthing electrode size : 65/80 mm dia (As specified), Length : 2000 mm Back fill compound : 30 kg	No	1	11,508.00	11,508.00
17	Galvanised stay set with 50x8mm stay clam, guy insulators(2No's), anchor plate (200x200x6mm), nuts and bolts, 2 Nos; turn-buckles, 1.8m long, 16mm dia meter solid G5 stay rod & 7/3.15 mm dia GI Stranded wire complete	Set	1	5,257.00	5,257.00
18	Sundry items like Aluminium Lugs , Jumpr, binding Tape	LS	1	1,157.00	1,157.00
19	Providing & Fitting of 35 sq mm Single Core Copper Conductor (Flexible) PVC Insulated Heavy Duty Industrial Cables (Unsheathed), 1100 Volts Conforming to IS: 694- for connecting motors from panel , stabilizers in rubber conduit . Job includes providing & laying of flexible conduit for cu cable with lugs as per requirement Heat Shrinkable Outdoor cable termination Kit	Meter	50	557.00	27,850.00
20	Providing and fitting of 3-Core flat submersible copper cable conforming to IS: 694 (Part 1st) – 1964 & IS: 694 (Part 2nd) - 1964 for Submersible Pumping Unit and other electrical Equipment. The cable connections terminal shall be fitted with copper thimbles of required size. Size: 16 sq mm	Meter	90	782.00	70,380.00
21	Providing, installation ,testing of power service cable for working voltage up to and including 1100 volts; 70 sq mm armored aluminum 3.5 core cable as service line from output terminals of HT/LT transformer to cubical panel. Cost includes laying of cable in trenches in Pvc conduit where ever it is to be laid underground as per site requirement included is termination of ends with suitable Aluminum tube terminals dully crimped & taped. NOTE:- The cable terminal ends for connection to switchgear at various requisite points shall be Al. Thimbles of reputed make and of appropriate size and connected by hydraulic crimp tool only	Meter	40	701.00	28,040.00
22	Providing, fitting, testing and commissioning of 50 KVA Voltage Stabilizer as per specifications below: Type of voltage controller: Manually operated copper wound, 3-phase, AC power supply multi step. Type of Regulator : Double plate type with electrolytic copper contacts. Input voltage :250-400 volts.(3 phase) Output voltage :400 ±10% volts. Frequency :50 ±3 C/S. Windings : Electrolytic grade copper of adequate section, vacuum impregnated and Oven-dried. Insulation : Fiber glass insulations to tested parameters. Cooling :Naturally, Oil cooled Temp. Rise (Max):30°C above ambient Mounting :On Uni-directional wheels. Correction rate :30 volts per step Wave form distortion :virtually nil Duty cycle :100% continuous. Enclosure : MS sheet enclosure in pressed CGR Sheet powder coated with radiators. Core laminates : High grade, low eddy loss, grain oriented silicon steel laminations. Load : Three phase induction motor load.	Job	2	1,15,212.00	2,30,424.00
	Overload in 24-hours operation: 10% above continuous Ampere rating. The voltage stabilizer shall have T-oil level indicator gauge preferably glass type tube or otherwise visible to naked eye. The top of the container to have a display panel for housing 02 numbers Digital voltmeters (0-500V) along with 4-way selector switch and set of neon indicators for incoming and outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade to be provided and filled up to top level, with dielectric strength of 5 KV at 4m air gap. The T-Oil of specific grade should be provided in separate barrels and filled at site up to top level. The voltage Stabilizer shall be accepted with manufacturers dully stamped test certificate and shall have name plate with specifications.				

S. No.	Item of work	Unit	Quantity	Rate	Amount
23	<p>Design, manufacturing, providing, fitting, testing & commissioning of Star-delta Motor control gear Panel.</p> <p>The Star-delta Motor control gear Panel shall be fabricated out of 14 SWG CRCA Sheets Modular, compartmentalized, Free Standing, Floor Mounting, Front hinged doors for indoor use, removable bottom gland plates for incoming cables, dust and vermin proof (IP: 55 protection) with TP Copper Buses as per load, complete with connection, internal wiring, neon indicators for each phase, starter buttons, name plates, painting, vents etc. generally as per details furnished below:</p> <p>Rated Voltage of the Panel ----- 440 Volts Frequency ----- 50 HZ No of Phases ----- Three Enclosure Details ----- Free Standing, Floor mounted, Compartmentalized Design. Material ----- CRS</p> <p>Thickness of sheet steel used ----- 02mm Application ----- Indoor Cable Entry ----- Bottom Painting ----- Shade Siemens grey.</p> <p>a) Main Circuit Breaker incoming combined Type ----- On load 4 pole MCCB Rating : 160A Qty ----- 2 Nos (for Main and Standby/DG Set Supply) No. of poles ----- 4 Rated operational voltage ----- 415 V AC \pm 15% Rated frequency ----- 50 \pm 3% Hz Ultimate S.C Breaking cap at (415 volt A C, 50 Hz) ----- 50kA</p>	Job	1	1,92,073.00	1,92,073.00
	<p>b) Distribution bus bar Type ----- Electric grade Cu with red, blue & yellow tapings of adequate section. Rating ----- 200 Amp</p> <p>c) Change over Switch Qty ----- One Type ----- Front Operated on load 4 pole (open execution) Rating ----- 100 Amp</p> <p>d) Circuit Breaker units Type ----- MCCB Qty ----- 2 Nos No. of poles ----- 3 Rated current ----- 100 Amp Thermal release range- Rated operational voltage ----- 415 V \pm 15% Rated frequency ----- 50 \pm 3% Hz Ultimate S.C Breaking capacity at (415 volt A C, 50 Hz) ----- 50kA</p> <p>e) Starters (FASD) Power Specification ----- 3 phase, 415 \pm 15% v & 50 Hz Contactors : Line Contactor ----- AC3 50 A Delta Contactor ----- AC3 50 A Star Contactor ----- AC3 32 A Timer ----- Star Delta Electronic Thermal overload relay - direct/CT operated Suitable/available range Coil Voltage : 220/240V Qty ----- 2 No's</p>				
	<p>f) Aux. panel Circuit breaker ----- MCCB Qty ----- 01 no. No. of poles ----- 04 Rated operational Voltage ----- 415 \pm 15% Ultimate S.C. Breaking Capacity ----- 35 KA at (415AC, 50 Hz)</p> <p>g) Stabilization unit for both starters Qty ----- 02 no Rating ----- 1 KVA single phase automatic voltage stabilizer Input : 90V-300 Out Put : 220/240 (as per coil voltage of contractors) Enclosure ----- to be housed within the cubical panel in separated chamber with additional meter, LED fitted outer side MCB DP ----- 10A ----- 1nos</p> <p>h) Protection Details: Compact Motor Protection Relay including other related accessories like single phase preventer relay, timer relay, overload-under load, phase difference etc. Display ----- LED/LCD and all setting is to be done at display Compact motor protection relay Qty : 01 nos) Protections : • Flush Mounting with display • Last trip data recording • Protections: - Thermal Overload with pre- alarm - Short Circuit - Earth fault</p>				

Amount

	Item of work	Unit	Quantity	Rate	Amount
	- Phase loss, Unbalance, Phase reversal - Under Current - Prolong starting, Locked Rotor. - Single phase protection- Single Phasing condition- Phase Reversal condition- Phase Unbalance condition Modes of Operation i) M-Power module for mobile starters and Earth fault relay as Auxiliary Protection Earth Fault Relay ----- 3 phase Earth fault, ground fault module Range as per requirement MCB ----- MCB SP, 10A (10 Ka) j) Water level control relay for including wiring and capsules required at site keeping depth of sump 10 meters in consideration. 01 unit complete (not for production wells) g) Metering Details •Incomers (Panel Mounted) (a) Multi-Function Meters LCD Display (1 No) Voltage of each phase, Current of each phase 3ø power (Active, Apparent), 3ø Power factor Frequency, Energy (b) Analog voltmeter S/S operated (1 No) - Rishabh make. •(b) Outgoing (Analog voltmeter (0-500) S/S operated (1Nos). Analog Ammeters 0-100 Amp (2Nos) for both starters Each outgoing with S/S CT operated (Rishabh make) h)M-power module for mobile starter for submersible motor suitable region north India. Note: Name of Scheme; Allotment No; should be imprinted on the machine with capital letters				
24	Providing, installation and testing of Heavy Duty manual type triple spur gear chain pulley block along with monorail geared travelling trolley having following features Gears:- The hoist shall have precision machine case Hardened alloy steel gear mounted on bearings and housed in a dust proof gear box. The lubrication of gears should be of high viscosity and temperature for longer life of gears. Load Chain:- The load chain be made of high tensile alloy steel having wear resistance and greatest mobility. The chain should be accurately collaborated, tested and have adequate in built factor of safety for safer operation. Load chain wheel:- the load chain well should be double ball bearing supported and Specially designed, perfectly machined wheel providing correct grip of load chain to makes the hoist most safe and reliable against any failure. The main specifications of C.P Block are given below : Make = Reputed make Capacity = 3 ton (P) No. Of load chain falls = 2 or above Min. Height of lift = 6 M	Job	1	80,604.00	80,604.00
25	Providing, installation, testing and commissioning of area lighting 120 Watt LED (Street Light Type) on top of octagonal pole including MCB fitted in box 10A vide item No.36 Having following specs: Input: 90-240 V 50 Hz Power Factor: >0.9 Colour Temperature: 4K - 6.5K Beam Angle: 120° - 170° Lumens: >12000 Operating Temperature: -20°C to 60°C The LED is pressure die cast aluminum housing with power coated finish and having Ingress Protection up to IP-68. The LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the high mast pole	Job	5	9,753.00	48,765.00
26	Providing and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED Lighting ncluding complete wiring min 20-30 m from panel board. The job includes making of electric connection to the circuit.	Job	1	2,378.00	2,378.00
27	Providing, Installation and testing of 2KVA fully automatic voltage stabilizer including wiring with input voltage 70-240 V and output 220 V. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge.	Job	1	9,164.00	9,164.00
28	Providing & fitting of lighting points for (machine room , operators room,) as per site requirement in 1.5 mm ² multistranded single core 1100 volts, pvc insulated copper conductor through pvc conduit pipe by way, switches, socket modules, regulators, indicators, 08/10 watt LED lamps Surface light Make. Included is cost on account of modular switch boards with the wooden frames as per site requirements	Job	8	1,760.00	14,080.00
29	Providing fitting of heating points in 2.5mm ² multistranded single core 1100 volts, pvc insulated copper conductor through pvc conduit by way of p / f of 15 Amp switches, 6 pin socket on modular fitting as per site requirements. Heating points are to be connected from main control panel. All accessories required is to be provided by the firm	Job	2	1,540.00	3,080.00
30	Providing and fitting of 9" x 9" exhaust fan with complete wiring in 1.5 mm cu wire through conduit and 6 A modular control complete job. Make Providing and fitting of 9" x 9"exhaust fan with complete wiring in 1.5 mm cu wire through conduit and 6 A modular control complete job.	Job	1	2,750.00	2,750.00

No.	Item of work	Unit	Quantity	Rate	Amount
1	Providing, fitting of Distribution Board of reputed make 4 way S P N single door powder coated sheet steel enclosure for surface mounting fitted with bus bar, DIN channel, neutral link and incoming contact. the above DB is to be provided /fitted with double pole 40 amp MCB for Main. 32 A for heating circuit & rest 3 of 16/6 amps each for premises luminary, auxiliary circuit of reputed make. Further job includes providing / fitting 4 mm ² multistranded single core 1100 volts, pvc insulated copper conductor through pvc conduit as service line from main panel as per site requirements. Connections should be made in such a way Lighting points is to be connected via automatic transformer by way of p/f switch socket arrangement with allied fixtures & and heating points to main panel. Job includes dismantling of existing damaged conduit , wires, conduit and cleaning the surface properly	Job	1	6,050.00	6,050.00
2	P/I of Earthing station of Panel board, stabilizer, Motors, heating points, lighting points, D.G sets for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per IS: 3043. The job includes Auguring of bore of required dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards. Safe earthing electrode size : 65/80 mm dia (As specified), Length : 2000 mm Back fill compound : 30 kg	Job	1	11,508.00	11,508.00
3	Fabrication, providing, fitting of base frame for pumping units , covering of holes , fabrication of gantry, ladder ,DG set covering, HT/Lt transformer Bed with gantry fabricated out of ISMC/ISMB/ISA/Bars/MS Pipe/MS plain-chequered Sheets. Including making of holes in concrete, including metal primer 1 coat and two coats of approved shade . The works is to be executed as per site requirement and as per dimentions of Pumping unit and as per directions of site engineer.	Kg	300	127.00	38,100.00
4	Earth work in excavation by manual means in trenches for foundations, drains , pipes , cables etc (Not exceeding 1.5 m in width) and ramming of bottoms lift 1.5 m , including getting out excavated earth and disposal of surplus excavated earth as directed (All kinds of soil)	Cum	10	305.00	3,050.00
5	Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover. with 2-core 4 mm ² Cu (25 m) wiring as per site requirement along with other accessories like SS-Combine (02 No's), 3-pin plugs etc of reputed make for proper fitment and installation of the item.	Job	1	37,458.00	37,458.00
6	Providing, laying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate.	Meter	6	1,326.00	7,956.00

Curo Light Enterprises
 ... Paramulla.193201/

Amount

Item of work	Unit	Quantity	Rate	Amount
TOOL KIT For Maintenance: The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items i. Double ended Spanner (Chrome plated) 02 sets complete ii. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iv. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. v. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No. vi. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. vii. Insulated screw Drivers Blade length in mm Blade dia. in mm Tip dimensions in mm Quantity 50 3 1.6 x 0.4 02 75 3 1.6 x 0.4 02 100 3 3 x 0.4 02 125 3.5 3.5 x 0.5 02 150 3.5 3.5 x 0.5 02 200 4 4 x 0.6 02 300 5 5 x 0.8 02 viii. Hammer with handle weight – 110 mg, 340 gm , 600 gm –each – 1No. . ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each – 01 No. x. Electric Multimeter =1No xi. Digital multimeter – 1No. xii. Digital Clamp tester capable to measure up to 400A - 1 No. xiii. Hack saw frame with hack saw blade – 01 no. xiv. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) – 01 No. a) Providing of good quality convenience and utility items bedding for night stay/Shift consisting of:- i) Mattress with warm cover size 6'x3' (6Kg)- 02 No's ii) Quilt with warm cover size 5'x8' (6Kg)- 02 No's iii) Pillows with covers - 02 No's iv) Single bed warm blankets with one sided Fur- 02 No's The filling material for mattress, quilt and pillow shall be of good quality cotton b) The job also includes providing of pressure cooker 5ltr 02 No's, Steel patella (utensil) 5ltrs 02 No's, cooking heater 01 No., room heater 01 No., steel buckets 10 litre capacity 01 No., Plastic bucket 10 litre capacity with Mug 02 No's each, steel glasses 06 No's, steel Plates with large spoons and bowls 03 No's each, Cup and Saucer set (01 No. Set) and, 5kg Gas cylinder with burner/ stove. The job also includes providing of thermo-cool 15'x12' along with excel matting of 15'x12' size. The job also includes providing of unbreakable Plastic Chair table set consisting of chairs 04 No's, extra heavy Table 01 No. The job also includes providing of good quality safety Door locks (03 No's) of Godrej, Link locks, 37	Job	1	31,724.00	31,724.00
38 Fabrication of 6' x 6' angle iron bed by way of providing and fitting of Structural steel in built up sections , trusses and framed work, including cutting , hoisting , fixing in position and applying a priming coat of approved steel primer all complete welded 39 Providing and fitting of 19 mm thick multilayered ply sheet of size 6 x 3 feet , 2 no's including cutting , fixing all complete including painting of the play sheet by one coat of primer and two coats of enamel paint 40 Providing of solar/ electrical lantern chargeable on both solar & electrical 220v supply. 41 Providing of bamboo ladders 18 feet long along with 15 feet long Link rods and HT Glove pair (01 No each) 42 Providing of 1 KW heat convector for operators for winter season. 43 Providing and fitting of 01 No. angle iron/sheet metal board duly painted showing various specifications of the mechanical and electrical equipments installed at site. The legs are to be grouted in cement concrete. 44	Job	1	43,581.00	43,581.00
Total advertised/estimated cost: Percentage quoted by L1 firm Rupees Fourteen Lakh Eighteen Thousand Seven Hundred and Twenty Eight Only S. No. 37 has been deleted by the concerned AEE Total Alloted Cost Rupees Thirteen Lakh Eighty Seven Thousand Seven Hundred and Ninety Seven Only				14,55,106. -2.50% 14,18,728. 30,931. 13,87,797

Executive Engineer
 Jal Shakti (PHE) Mechanical Division (North)
 Sonepur