

No.: PHE/MDNS/DB/ 4095-4102  
Dated: 28 - 08 - 023.

M/s Umar Electricals  
Watal Kadal, Srinagar-190002  
GST No: 0 01AJTPR5741B1ZA  
Cell No: 9419999912 / 8899941338

Adv. Cost:	Rs 35.555 Lacs
Allotted Cost:	Rs 30.755 Lacs

Subject: Electro-mechanical works to be carried out at WSS Krusan under JJM.

- Reference: 1. This office e-NIT No.: e-NIT No. 21 of 2023-24, S. No. 01 issued under endorsement No.: PHE/MDNS/DB/ 2568-73, dated: 19-07-2023.  
 2. Authorization awarded by District Development Commissioner, Kupwara (Chairman DJJM) through Minutes of Meeting issued vide No. DDCK/Plg/JJM/4101-4122, dated: 22-08-2023.

\*\*\*\*\*

Dear Sir,

For and on behalf of Lt. Governor of J&K UT contract for execution of "*Electro-mechanical works to be carried out at WSS Krusan 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.

Encl.    leaves

*[Signature]*  
Executive Engineer  
Jal Shakti PHE Mechanical Division (North)  
Sopore

Copy to the:

- Chief Engineer Jal Shakti (PHE) Department Kashmir, Srinagar for favour of information.
- District Development Commissioner *[Signature]* for favour of information.
- Superintending Engineer Jal Shakti (PHE) Mechanical Circle (North) Srinagar, for favour of information.
- Superintending Engineer Jal Shakti (PHE) Hydraulic Circle *[Signature]* HQ at *[Signature]* for favour of information.
- Executive Engineer Jal Shakti (PHE) Division \_\_\_\_\_, for favour of information.
- Provisional Head, TPJA JJM Kashmir, (WAPCOS Limited) Corporate Office 76-C Institutional area Sector-18 Gurugram-122015 (Haryana) for favour of information.
- Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division *[Signature]* for information & necessary action.
- File concerned.

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

**Type of work:** Electro-mechanical works to be carried out at WSS Krusan under JJM

Item Description	Qty	Units	Rate	Amount
<p>Supply, installation, testing and commissioning of submersible pump as per IS: 8034</p> <p><b>PUMP:-</b></p> <p><b>Discharge: 4500 GPH</b></p> <p><b>Head: 138 Mtrs</b></p> <p>Type of pump: Submersible Pump (Vertical)</p> <p>Quality of Water to be handled: clear water.</p> <p>Efficiency- Not less than 50%</p> <p>Speed ; 2900 rpm</p> <p><b>MATERIAL OF CONSTRUCTION:</b></p> <p>As per IS: 14220 :1994 suitable for above parameter</p> <p><b>MOTOR:-</b></p> <p>Rating: Suitable for above parameter</p> <p>Method of starting: Star – Delta/DOL (as specified).</p> <p>Frequency: 50Hz ± 3</p> <p>Voltage: 415 ±10</p> <p>Speed 2900 rpm (syn)</p> <p>Class of insulation: Suitable for above rating.</p> <p>The motor shall be made of corrosion resisting materials to resist corrosion under normal conditions and the motor shall have a name plate giving complete specifications</p> <p>The job includes providing and fitting of suitable size/Dia GI nipple for pumping equipment as per site requirement. 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.</p> <p>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.</p> <p>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 other end for column pipe as per site requirement. The threaded portion should be as per size of pumping out let for proper fixing.</p> <p>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.</p>	2.00	Jobs	114212.00	228424.0
Fabrication, providing, fitting and lowering of 65 mm Dia. Class C Flanged MS coated column pipes conforming to IS: 1239 including the providing and fitting of MS flanges as per table 17 and welding of flanges in two layers to make flanged joint leak proof and strong.	48.76	Meters	1400	68264
Fabrication, providing and fitting of split type MS clamps 10 mm thick, Length as per sump opening and 3 inch wide for lowering and holding of pumping unit fitted. The job includes the cost of required size nuts and bolts.	2.00	Jobs	1801.00	360:
Providing and fitting of 16 Sq.mm 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	150.00	Mtrs	680.00	1020



connections terminal shall be fitted with copper thimbles of required size. (for pumping units and interconnections)				
Providing, installation, testing of power wiring for working voltage up to 1100 Volts, 25 mm sq PVC insulated stranded annealed copper conductor from changeover switch to voltage stabilizer, to bus-bars of Panel by way of p/f of PVC high purpose ASTM pipes of nominal dia, PVC couplers, Steel clamps, wooden battens, nuts bolts, PVC flexible conduit, included is termination of ends with suitable Cu terminals duly crimped and taped.	60.00	mtrs	350.00	21000.00
Fabrication, Providing and fitting of Modular motor control panel of appropriate size fabricated out of 14 SWG sheet having required openings/vents and protection Class : IP-55 & fitted with accessories as under: <b>Bus bar Chamber:</b> The bus bar chamber shall be fitted at the top of the panel horizontally/vertically throughout the length. There shall be 3 Nos. of phases bus bar and 1 No neutral bus bar and 1 No earthing bus bar. The bus bars shall be air insulated and made-up of high conductivity COPPER with current density of suitable rating for 100 Ampere. All panel compartments shall be provided with suitable cable alley and vertical bus bar alley. Suitable segregation shall be provided in between bus bar chamber and adjoining compartments. The bus bar shall be PVC sleeved with colour strips of red, yellow, blue and black and the same be arranged in accordance with IS-375 specifications. Electrical clearances shall be maintained between phases, neutral and body as per standards. <b>Main Circuit Breaker (Incomer MCCB):</b> Qty. = 02 Nos No. of poles = 4 Nos Current Rating = 100-125 Amp. Rated operational voltage = 415 V + 15 % Rated frequency = 50+/-3%Hz Ambient temperature = 40° C Ultimate S.C Breaking Cap at (415V AC, 50 Hz) = 50KA Type of release = Thermal-Magnetic <b>Change over Switch:</b> Qty. = 01 No. Rating = 100Amp Type = Front operated, on load, 4 pole, 400 ±15%V, 50 ± 3%Hz. <b>Motor Back-up Protection MCCB:</b> Qty = 2 Nos. Poles = 3 Nos Rated Current -63A Rated operational voltage = 415 V ±15 % Rated frequency = 50 ± 3% Hz Ambient temperature = 40°C Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA <b>Starters:-</b> Fully automatic star delta starters. Power Specs = 3 Φ, 415 ± 15 V, 50 ± 3 Hz. Relay range= 30-50 A Coil Voltage = 380 v Protection = single phasing, phase Reversal, phase unbalance Qty. = 2 No's <b>Auxiliary MCCB for Heating/Lighting:</b> Circuit Breaker = MCCB (Outgoing) Qty. = 1 No. No. of poles = 4 Current Rating = 63 Amp.	1.00	Job	240000.00	240000.

<p>Rated operational voltage = 415 V <math>\pm</math> 15      Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA  <b>Motor Protection Relay:</b>      Digital Motor Protection Relay with LCD Display for 3-phase supply with following protections suitable for the Modular Control Panel:-      Protections = Thermal Overload with pre-alarm, Short Circuit, Phase Loss, Unbalance, Phase reversal, Under Current, Prolong starting, Locked Rotor, Earth fault and over current.      Qty. = 02 No's</p>				
<p>Providing, fitting, testing and commissioning of 50 KVA voltage stabilizer as per specifications below:      Capacity: 50 KVA, 3-phase      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: 150 volts. (3 phase)      Output voltage: 415 <math>\pm</math>10% volts.      Frequency: 50 <math>\pm</math>3 C/S.      Windings: Electrolytic grade copper of adequate section, vacuums impregnated and Oven dried.      Insulation: Fibre glass insulations of 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 of adequate thickness.      Core laminates: High grade, low eddy loss, grain oriented silicon steel or CRG core.      Load: Three phase induction motor load.      The voltage stabilizer shall be capable to withstand load 10% above maximum load for 02 hour operation. 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 shall have a display panel for housing 02 numbers 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 with 62 dielectric value is to be provided and filled up to top level. The T-Oil of above grade should be provided in separate barrels and filled at site up to top level. The voltage Stabilizer shall be accepted with manufacturers duly stamped test certificate and shall have name plate with specifications, name of manufacturer and name of Water Supply Scheme</p>	1.00	Job	107000.00	107000.00
<p>Providing and Fitting of 3.5-Core, 70 Sq. mm XLPE, and 11KV grade Armoured Aluminum Cable of various sizes conforming to IS: 7098 part 1st as service line from the HT transformer to control panel including necessary thimbles, crimping, taping etc. to be fitted from changeover panel to modular panel. The job also includes P/F of Aluminum thimbles of various sizes as per site requirement including crimping and taping.</p>	60.00	Mtrs	668.00	40080.00
<p>Providing and fitting of 80 mm Dia G.I flanged Rising Main at site. The Pipe shall be hot dip Galvanized, class medium confirming to IS 1239. The job includes providing and fitting of M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrode of reputed make. Flanges (as per IS 6392/1997 Table: 17) Thickness shall conform to IS 6392 Part 1st Table-7. The flange welding shall be carried out in double layers to form strong</p>	1200.00	Mtrs	1251.00	1501200.00



	welding joint. The electrodes shall be having diameter not less than 4mm, Nuts and Bolts, Rubber Insertion Gaskets of reputed makes to be used between flanged joints.				
10.	Earth work excavation for rising main and allied works by mechanical means in trenches for foundation, drains, pipes, cables (not exceeding 1.5 m in width) and for shafts, wells, cesspits, gravel pack cum holding mechanism etc. and the like not exceeding 10 Sq m on plan, including dressing of sides and reaming of bottom lift up to 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed. Under road way a minimum clear cover of 1.5m is to be provided, same can be modified to suit local conditions. The job includes back filling and cleaning of road.	400	Cum	256.00	102400.00
11.	Fabrication, providing and fitting of washout Tee with arm length as per site requirement but not less than 1.5'x1.5'x1.5'. The Tee shall be fabricated out of G.I C-class pipe with M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16) fastened with weld joints on three ends. Nominal Dia -80 mm	1.00	Job	5000.00	5000.00
12.	Earth work excavation for rising main and allied works by manual means in trenches for foundation, drains, pipes, cables (not exceeding 1.5 m in width) and for shafts, wells, cesspits, gravel pack cum holding mechanism etc. and the like not exceeding 10 Sq m on plan, including dressing of sides and reaming of bottom lift up to 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed. Under road way a minimum clear cover of 1.5m is to be provided, same can be modified to suit local conditions. The job includes back filling and cleaning of road.	100	cum	479.00	47900.00
13.	Backfilling of the excavated earth in trenches in layers not exceeding 20 cm in depth ,consolidating each deposited layer by ramming and watering lead upto 50 m and lift up to 1.5 metres.	360.0 0	cum	219.00	78840.00
14.	Fabrication, Providing and fitting of Tail piece as per site requirement by Cutting of hot dip galvanized G.I C-Class pipe across the section by using pipe cutter/ gas cutter. The job also 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. The flange welding shall be carried out in double layers to form strong welding joint by using DC arc welding. The job further includes Providing and Fitting of nuts and bolts, Rubber Insertion Gaskets to be used between flanged joints. Nominal Dia - 80 mm	6.00	Jobs	1450.00	8700.00
15.	Fabrication, Providing and fitting of 90-120 degree bend /elbow with flanges, fabricated out of Class C GI pipe (5.4mm thickness) of length as per site requirement and flanged on both ends. 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. Nominal Dia -80 mm	25.00	Jobs	2797.00	69925.00
16.	Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) '80 mm 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 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.	4.00	Jobs	17400.00	69600.

17.	<p>Providing and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate/ sluice valves 80 mm 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.</p> <p>The job includes providing and fitting of 02 nos. M.S 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>	2.00	Jobs	15300.00	30600.00
18.	<p>Providing, fitting, testing and commissioning of ARV (Air Release valve) as per IS 14845 to be fitted to G.I rising Main. The ARV Shall have the following specifications:-</p> <p>Valve type - single chamber, single orifice Nominal Dia=50 mm. End connection - flanged ends to IS 1538 Working temperature – 70°C to 55 °C Test pressure - body / seat 2.5 x PN Sealing ring – EPDM Construction -ductile iron with stainless steel floats Coating - epoxy with corrosion resistance Besides the above works, The job also cost on account of P/F R.I gasket, nuts and bolts required for installation of ARV and arrangement of gas cutter/ welding set at site.</p>	1	JOB	19000	19000
19.	<p>Fabrication of gantry mechanism, bed for staff and base frame and allied works by way of providing 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 The job also includes painting of complete Structure in one coat of red oxide and 02 coats of enamel metal paint.</p> <p>The quantity of the steel members like ISMB 200/150/100 , MS chequered sheet, ISMC 100, ISMC 75, ISA 50X 50 X5mm /40X 40 X 6mm, Square bars, railing pipe, MS pipes, angles, tubes, shall be used as per directions of site engineer, same may vary as per site requirement as it is conditional to civil structures being constructed.</p>	800.00	Kgs	115	92000.00
20.	<p>The above steel structure shall be covered with 26 SWG CGI colour coated laminated sheets with desired jointing arrangement complete, including Chaja, ridge and Morkh as per requirement fixed with</p>	30	sm	848	25440.0
21.	<p>Providing, installation and testing of manual type triple spur gear chain pulley block along with monorail geared travelling trolley having following features</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The main specifications of C.P Block are given below</p> <p>i. Make = Reputed</p>	1.00	Job	44473.00	44473

	ii. Capacity = 2 ton iii. No. Of load chain falls = 2 iv. Min. Height of lift = 6 M				
22.	Supply, installation, Testing & commissioning of 950VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Automotive inverter Battery with trolley and cover. with 2-core 4 mm <sup>2</sup> 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.	1.00	Job	34053.00	34053.00
23.	<p><b>Illumination of Premises:</b>  Providing and erection of 9 Mtr long Hot Dip Galvanized octagonal pole (single Section) with bottom 150mm, top 75mm wide, thickness 3mm with 70 Microns Zinc coating having inside arrangement for providing of power connection along with following items.  1) 3 Way Terminal Connector 20 Amp.  2) 3 No MCB 8 Amp.  The job includes fabrication, providing and fitting of three arm GI structure at the top having 120° angle between arms and each arm having 15° inclination with respect to horizontal plane. Each arm should be of 2' length and size and shape appropriate as per requirement of the luminary.  The job also includes providing and fitting of required length of flexible multi strand 2 mm copper wire from each terminal connector to each holding arm.  The pole is mounted on 1:2:4 Cement concreting of size not less than 2'x2'x6"  using 04 No anchor bolts of required size not less than 7" in length. The complete job includes earthing in GI Electrode as per relevant IS Code</p>	1.00	Job	22226.00	22226.00
24.	<p>Providing, installation, testing and commissioning of area lighting 120 Watt LED (Street Light Type) on top of octagonal pole having following specifications:  Input: 90-210 Volts  Power Factor: &gt;0.8  Colour Temperature: 4K - 6.5K Beam Angle: 120° - 170° Lumens: &gt;12000  Operating Temperature: -20°C to 60°C  The LED is pressure die cast aluminium 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</p>	3.00	Jobs	9486.00	28458.00
25.	Providing and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED Lighting. The job includes making of electric connection to the circuit.	1.00	Job	2227.00	2227.00
26.	Providing and Fitting of 2-Core, 10 Sq mm XLPE, and 1.1KV and 11KV grade Armoured Aluminum Cable of various sizes conforming to IS: 7098 part 1st as service line from the HT transformer to control panel including necessary thimbles, crimping, taping etc. To be fitted from auxiliary MCCB of panel to main junction box of octagonal pole.	50.00	Mtrs	162.00	8100.00
27.	<p>a) Providing of good quality bedding for night stay/Shift consisting of:-  i) Mattress with warm cover of size 6'x3' (6Kg) white cotton - 02 No's  ii) Quilt with warm cover of 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 white cotton</p> <p>b) The job also includes providing of pressure cooker 5ltr (02 Nos), Steel patella (utensil) 5ltrs (02 Nos), cooking heater (01 No.), room heater (01 No), steel buckets 10 liter capacity (01 No), Plastic bucket 10 liter capacity with Mug (02 Nos) each, steel glasses (06 Nos), steel Plates with large spoons and bowls (03 Nos) 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'</p>	1.00	Job	39619.00	39619.00

	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, heavy Table 01 No. The job also includes providing of good quality safety Door locks (03 No's).			
28.	Providing, laying & fixing with adhesive/bonding material of insulation rubber mats 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.	6.00	Mtrs	1205 7230.00
29.	Providing of solar/ electrical lantern chargeable on both electrical and solar 220 V supply.	1.00	Job	1911.00 1911.00
30.	Providing of bamboo ladder-18 feet long along with 15 feet long link rod and HT glove pair (01 No each)	1.00	Job	7350.00 7350.00
31.	Providing of 01 KW heat convector for staff for winter season	1.00	Job	1205.00 1205.00
32.	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	36.00	Sft	154.00 5544.00
33.	Supply , installation , commissioning and creation of pole mounted, outdoor type <b>63 KVA capacity</b> Level II Electric Sub Station as per the amendment No. 4 March 2021 to IS: 1180 (Part 1) 2014 (Fourth Revision).  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 amendments.  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.	1.00	Job	171000.00 171000.C
4.	Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps ( for transformer bed, taping point , brackets of poles etc)	250.00	Kgs	123.00 30750
5.	Supply, Installation, Testing and commissioning of Polymeric Gang operated Air break switch, 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(01 no. at existing tapping point	2.00	Jobs	11730.00 2346

12  
100

	and another at existing substation).			
36.	Supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A suitable for vertical installation.	1.00	Set	4983.00 4983.00
37.	Supply, installation, Fixing, testing and commissioning Drop Out Fuse Set Current Rating-100 Amp Size- standard	1.00	Set	6000.00 6000.00
38.	Supply, installation, Fixing, testing and commissioning Link Set with Voltage Level- 11KV, Frame- Galvanized channel base Current Rating-100 Amp Size- Standard	2.00	set	7000.00 14000.00
39.	Supply, Installation, Testing and commissioning of Gapless Surge arrestor station class, 10KA, 9KV, LA With polymer housing, Station Type.	1.00	Set	7754.00 7754.00
40.	Supply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN, Lighting impulse 75KV Positive, and 80 KV Negative , creepage distance 320 mm	12.00	No,s	300.00 3600.00
41.	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.	4.00	Jobs	20686.00 82744.00
42.	P/F of Galvanized nuts, bolts of various sizes as per site requirement for fitment of electric substation, poles etc.	20.00	Kgs	120.00 2400.00
43.	P/F Danger Plate with clamps	4.00	Jobs	153.00 612.00
44.	Providing and fixing G.I Barbed wire as anti-climbing devices	3.0	Kgs	136.00 408.00
45.	Providing and fitting of Galvanized stay set with 50 X 8 mm Stay Clamp , Guy insulator (2no.), Anchor plate (200X200X6mm) , nuts and bolts , 2 NO- turn buckle , 1.8 m long , 16 mm diameter solid G.I stay rod & 7/3.15 mm dia. G.I stranded wire complete.	2.00	Sets	4922.00 9844.00
46.	Painting of poles by Red oxide	2	Ltrs	306.00 612.00
47.	Painting of poles Aluminum paint	2	Ltrs	510.00 1020.00
48.	P/L of ACSR conductor 0.03 as per relevant IS code	100	Mtrs	38.00 3800.00
49.	Providing and fitting of PG clamps.	8.00	No,s	350.00 2800.00
50.	Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures.	1.00	Job	29000.00 29000.00
51.	P/I of earthing 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 : 80 mm Dia Length : 2000 mm Back fill compound : 30 kg	4.00	Jobs	10462.00 41848.00
52.	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centering and shattering. All works up to plinth level with 1:2:4 mix (1 cement, 2cores sand, 4 graded stone aggregate 20mm nominal size).	5.00	CM	7000.00 3500
53.	Tool kit in a suitable GI box comprising of following tools: TAPARIA Pipe wrench 18" -01 No. TAPARIA Pipe wrench 24" – 01 No. TAPARIA Ring spanner set of 12 pieces. - 01 set.	1	job	6500.00 650

TAPARIA Open ended spanner set of 12 pieces -01 set. TAPARIA Pliers 8" -01 No. L.T. Line tester -01 No. Screw driver set starter type 01 set. Hammer with handle -01 No.(3 kg) Hex saw frame with set of 6 blades. -01 No.				
54. Providing and laying of cement bottoming of poles concrete block in M15(1:2:4) mix with 20mm, aggregate 1000mm underground as per site requirement and 300mm above ground complete in 600mm in diameter complete with all farm work/required shuttering. The job includes all types of carriages both mechanical and manual means	4	Job	3500	14000.00
Estimated / advertised amount:				3555506.00
Percentage quoted by L1 firm:				-13.50%
Total allotted amount:  (Rupees Thirty Lakh Seventy Five Thousand Five Hundred and Twelve Only)				3075512.00

*Muz*  
Executive Engineer  
Jal Shakti PHE Mechanical Division (North)  
Sopore