Government of Jammu & Kashmir Office of the Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sopore Email ID: phe.mdns@gmail.com Website: phekashmir.com No.: PHE/MDNS/DB/ 4/19-26 28-08-2023 Dated:

M/s Reliance Engineering Works Johama Road Kanispora Baramulla / GST No: 01NOHPS1016G1Z4 Cell No: 9419993999

Adv. Cost: Rs 30.645 Lacs Allotted Cost: Rs 30.032 Lacs

Subject:

Electrical and mechanical works to be carried at WSS Tapper (Production well) under JJM. 1

Reference:

This office e-NIT No.: e-NIT No. 02 of 2023-24, S. No. 04 issued under endorsement No.: PHE/MDNS/DB/117-30, dated: 10-04-2023.

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/2135-49, dated: 30-05-2023/

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 Tapper (Production well) 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

Executive Engineer Jalahakti PME Mechanical Division (North) Sopore

Copy to the:

1. Chief Engineer Jal Shakti (PHE) Department Kashmir, Srinagar for favour of information.

District Development Commissioner 3., for favour of information.
 Superintending Engineer Jal Shakti (PHE) Mechanical Circle (North) Srinagar, for favour of

4. Superintending Engineer Jal Shakti (PHE) Hydraulic Circle Dela Tryon HQ at grow, for favour

5. Executive Engineer Jal Shakti (PHE) Division \_\_\_\_\_\_\_, for favour of information.

6. Provisional Head, TPIA JJM Kashmir, (WAPCOS Limited) Corporate Office 76-C Institutional area Sector-18 Gurugram-122015 (Haryana) for favour of information.

7. Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division Ala. for information & necessary action.

8. File concerned.

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ANNEXURE "A" to this office Allotment Order No: PHE/MDNS/DB/

Name of work:

Electrical and mechanical works to be carried at WSS Tapper (Production well) under  $\mathsf{JJ}_{M_s}$ 

## General Terms and Conditions

- Completion period: The work shall have to be completed by you strictly in accordance with the approved specification/departmental requirements under the close supervision of the concerned Sub-Division within a period of 90 days, from the date of issuance of allotment order, failing which penalty as per the relevant clause
- 2. Third Party Monitoring: The allotted works shall be subject to check by the third-party monitoring agency appointed by the Department in Kashmir. The agency shall check the quality of works executed by the agencies, quality of materials used for construction and quality of machinery installed in each scheme. The TPIAs role shall be that of an assistant to the Employer's Representative for the purpose of monitoring and evaluation of the performance of the Contract during the Contract Period
- 3. Inspection and Testing Before Dispatch: Before dispatch from the source of site of the OEM, the electro-mechanical equipment shall be inspected by a third-party inspection agency i.e. M/S CEIL/Rites etc. New Delhi. The charges for the inspection shall be borne by the Department. However, the Firm (Bidder) shall make payment to the Inspection Agency (in case of 3rd Party Inspection) which shall subsequently be reimbursed by the Department. The successful tenderer shall intimate the Department and the Inspecting Agency/Authority in advance regarding the readiness of the equipment for dispatch and shall furnish test certificates.

It shall be responsibility of the suppliers to tie up with the third party nominated for inspection and get necessary inspection of the material done within the delivery period. Any delay on the part of the third party shall not be entertained as an excuse for timely supply of material/execution of work.

The product/ material at site shall be inspected by Assistant Executive Engineer concerned or any other official(s) of the department designated by the concerned Executive Engineer. Any modifications to the works as specified in the specifications considered to be necessary for smooth and trouble-free operation of the equipment by the Department or the third party inspection agency, the firm shall have to execute the same without any extra cost, to the best satisfaction of the department.

The firm shall as such keep the department informed about arrival of material at site. It shall be obligatory on the part of the firm to rectify the defects pointed out by the AEE, if any, and also to incorporate any modification within the scope of work which may be deemed necessary for better performance/finish and workmanship. The firm upon demand by the department or its representative shall rectify or replace defective unsuitable equipment.

The Department reserves the right to nominate its representative for inspection of the goods at the source of site of the supplier/manufacturers. As such the department at all reasonable times shall have access to the works and to the site and to all workshops and places where work is being executed and where material / manufactured articles and machinery are being obtained.

In case of Sub-Station and power/feeder lines, the firm shall have to obtain a clearance certificate from the concerned inspection Division of the Power Development Department.

The list of electromechanical equipment in which third party inspection from CEIL/RITES is to carried on

- 1) DG Set of >40KVA capacities
- 2) Pumping Unit > 40 HP (Horizontal and Vertical)
- 3) Valves >300 mm
- 4) Pipe of all size
- 5) Iron Removal Plant

For items other than those manufacturers test certificate shall have to be provided.

At the time of installation, the firm will provide Third party inspection of machinery at source of site of respective OEM's which shall be undertaken only for equipment which are not available off the shelf. For rest of the equipment, test certificate, warranty documents along with necessary performance curve and data sheet duly signed by the representative of the OEM/authorized dealer and countersigned by the concerned firm shall be furnished by the firm.

Transit Insurance: The electro-mechanical equipment required for water supply schemes shall be insured through a Nationalized Insurance Company up to its final destination, against all transit risks. The firm should, therefore, take appropriate insurance policy in advance for covering the transit of the goods, charges for which shall be

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borne by the tenderer and shall be included in his quoted rates. The department shall pay no extra charges on this account.

- 5. **Mode of Dispatch:** The firm/contractor shall be responsible to adhere to transportation rules and regulations and the department shall not be responsible for any accident.
- 6. **Performance Security:** The successful bidder on award of the contract shall furnish a performance security equivalent to 03% of the value of the contract within one week of the issuance of allotment order in the shape of CDR/FDR/Bank Guarantee, valid for a period of three months beyond the completion period of the contract:
  - a. Safeguard against material and manufacturing defects, bad workmanship, improper design etc.
  - b. Successful execution of the contract and fulfillment of the conditions of the agreement.
  - c. Satisfactory performance of equipment in terms of the agreement.
- 7. Terms of Payment for Electro-Mechanical Component:

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- a. 70% (Seventy Percent) payment shall be released on receipt of material/equipment on Pro-Rata as per the allotment order and verification by the concerned Assistant Executive Engineer, thereof.
- b. 20% (Twenty Percent) payment shall be released after installation and testing of the equipment.
- c. Balance 10% (Ten Percent) shall be released after successful commissioning of the system and trial run of 01 month.

However, 10% on account of DLP shall be deducted from each running bill which shall be released after completion of DLP and satisfactory performance of the equipment for the period of 12 months.

- 8. Warranty: The firm shall be bound for satisfactory performance of equipment/ works for 12 months after the successful completion of trial run of 01 Month or whichever is later. If during warranty period any malfunctioning/ defects arise, the firm /joint venture shall have to rectify the same within a period of 03 days of receipt of intimation. In case of any failure on the part of the firm/joint venture to remove the defect, the Department may get the defects removed/ repaired by any other agency and cost thereof shall be recovered from the firm / joint venture and shall be recommended for further punitive action as governed under the relevant clause of the contract including blacklisting.
- 9. **Trial Run:** After Completion of the work the firm will have to make a trial run of the scheme for a period of 01 Month during which the bidder will have to operate through staff provided by the department and maintain the executed work to the full satisfaction of the Department. During this period, he will provide training to the staff and will also carry out maintenance work at his cost and risk, if required.
- 10. **Defect Liability Period (DLP):** The defect Liability period shall be for a period of 12 Months which shall commence after the successful completion of Trial run, during the defects Liability period (DLP) as it is required for its successful running and as per Standard Engineering Practices, to the full satisfaction of the department. The bidder shall be responsible to make good & remedy at his own expense any defect in works which is noticed during the DLP. In case any defect remains unattended by the firm at the completion of DLP, the department may extend the DLP for such time as deemed fit for getting the defect rectified subject to a maximum ceiling of 6 Months.
- 11. Liquidated damages (LD): In the event of firm's/joint venture failing, declining, neglecting or delaying the supplies / works or in the event of any damage occurring or being caused by the firm/ joint venture or in the event of any default or failure by the firm in complying with any of the terms and conditions of the contract, the Department shall with or without prejudice to any other remedies available to it under any law for the time being enforce in the UT:
  - a) Terminate the contract after 15 days' notice

and/or

b) Recover the amount of loss caused by damage, failure or default, as may be determined by the department.

and/or

c) Recover the extra cost, if any, involved in allotting contract to other party.

and/or

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Impose Liquidated damages on account of delay beyond the schedule completion period to the impose ciquidated damages on account of delay beyond week but not exceeding 10% value of the tune of 0.5% of the delayed portion of contract every week but not exceeding 10% value of the contract.

and/or

Forfeit the performance security and blacklist the firm.

12. Force Majeure: Any failure or commission to carry out the provision of the contract shall not give rise to any claim by the department or bidder one against the other if such failure of commission arises from the 'ACT OF GOD' which shall include all natural calamities such as fires, floods, earthquake, hurricane, strikes, riots, embargoes or from any political or other reasons beyond the control of the parties including war, or a state of insurgency.

13. Arbitration: Any Dispute or difference arising between the department and bidder shall be dealt in accordance with the Arbitration and Conciliation Act 1996 and rules thereof. Any dispute arising between the firm and the department shall be settled within the jurisdiction of UT of Jammu and Kashmir.

- 14. Penalty clause: The firm shall ensure that the material/workmanship should conform to NIT specifications and relevant technical codes. In case the firm fails to supply the equipment or does not execute the work in accordance with the specifications or backs out from the contract or there is delay in completion of work beyond the stipulated time, the Department shall terminate the contract and recover the extra cost involved. In addition to this the department shall forfeit the earnest money and performance bank guarantee and may impose penalty up to 10% of the contract value at the discretion of Chief Engineer Jal Shakti (PHE) Dept Kashmir. The firm shall also be liable for all civil and criminal prosecutions under law if the specifications of the supplied equipment/ material used are found in contravention to the specification of the e-NIT.
- 15. Safety of Govt. Infrastructures: The firm should ensure the safety of the water supply lines, sewer lines, telephone cables, power cables, storm water drains etc., pipe laying alignment and, if any damage occurs during execution, it should be attended immediately at the cost of the bidder. Failing to attend immediately, the same will be got done by the Department at the risk and cost of the bidder.
- 16. Firm's risk and insurance: All risks of loss or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract are the responsibility of the firm.
- 17. Subletting of Work: The bidder shall not sublet the whole or part of the work. The bidder shall not assign the work or any part thereof or any benefit or any interest thereon or any claim arising of the contract, without prior written consent of the allotting authority.
- 18. Work under Bidder's Charge: From the commencement of the work to the completion thereof the same shall be under the bidder's charge. The bidder shall be held responsible for and make good any loss or injuries by fire or other causes / theft and shall hold the Government harmless for any claims for injuries to persons or damage to property happening from any neglect, default, want of proper care and misconduct on the part of the bidder, or any of his employees, during the execution of work. The bidder shall be responsible for the compensation if any, to labour under the existing labour laws of the country.
- 19. Firm to Maintain Site Office: The bidder shall provide and maintain, at his own cost a suitable site office at the site of Work to which the Department may send communications/ instructions.
- 20. Claims to be put in writing: The Department shall not be liable to the firm for any matter or thing arising out of or in connection with the contract or the execution, completion and maintenance of the work unless the bidder puts a claim in writing in respect thereof before getting the certificate of final completion.
- 21. Setting out of works: The bidder shall be responsible for the time and proper setting out of all the works and for the correctness of the positions, levels, dimensions and alignment of all parts of the works and for the provision of all necessary instruments, appliances, electricity and labour in connection therewith.
- 22. Labour: The bidder shall make his own arrangements for the engagement of all types of the labour, required for the execution of the job. No workman below the age of 18 years shall be employed on the works. Also, the bidder shall comply with the provisions of all labour laws and the rules framed there under.
- 23. Storage at Site: The bidder shall at his own cost make arrangements for proper storage especially towards Rain and Snow damages of the equipment/ materials at sites till its erection/completion. For the purpose the bidder shall, with the approval of Engineer in charge construct temporary storage accommodation for equipment/ material at site for which land shall be provided by the department near the site of work.

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24. Bidder Death, Becoming Insolvent Or Imprisoned: In the event of the death or insanity or insolvency or imprisonment of the bidder or where the bidder being a partnership or firm becomes dissolved or being corporation goes into liquidation, voluntary or otherwise, the contract may, in the option of the Engineer-incharge, be terminated by notice in writing posted at the site of the works.

25. Watch and Ward of Works: The bidder shall in connection with the work provide and maintain at his own cost all lights, guards, fencing and watch and ward, when and wherever necessary or required by the

Department for the protection of the work or safety and convenience of the Public etc.

26. Training of Departmental Staff: The bidder shall arrange, at his own cost and risk, to depute at least one competent Technical Supervisor, to train up to 04 Departmental representatives in the operation and maintenance of the equipment at site. This training shall be for duration of at least (3) three consecutive months and shall commence from the date of successful commissioning of the equipment or as may be mutually agreed upon.

Two groups of Departmental Engineers shall also be deputed to bidders/manufacturers works for short duration to obtain training free of cost in the operation and maintenance of the equipment, if required by the department.

- 27. Final Acceptance: The equipment/work shall be accepted by the Department only after the system has been tested and has performed satisfactorily in all respects, at site, in accordance with the provisions of the contract.
- 28. **Drawing and Quality Assurance Plans:** The following details shall be necessarily furnished within Two (02) weeks of the date of placement of this order which shall be approved by the Department within two (02) weeks from the receipt by the consignee.
  - 1) Sectional Drawing of Pumps
  - 2) General Arrangement Drawings (G.A.D.) /Layout of the equipment fully dimensioned for pumps, motors, starters, shunt capacitors, panels, delivery manifold, cables etc.
  - 3) Detailed circuit diagrams of LT Panels, starters, shunt capacitors etc.
  - 4) Third Party Inspection Reports and OEM's test certificates to the Department for their approval.

No manufacturing activity shall be started by the firm without approval of the drawings for each ordered equipment/work by the competent authority.

Additional time consumed due to observations/summary rejection of QAP/GAD shall be considered in the delivery period of the contract and the bidder shall be wholly and solely held responsible for the delay, thus caused.

Although no make has been specified in respect of any equipment, the bidder shall furnish QAP/GAD of only those makes which are standard with proven record of satisfactory performance in this Department or any other Government Department in the UT or outside. Thus, the bidder shall have to mandatorily furnish a list of makes and technical data for the tendered equipment which the firm intends to supply, in the cover 1st of the bid so that the Department is fully satisfied about the quality of the equipment.

29. Operation and Maintenance Manuals: The bidder shall supply, free of cost to the Department, six complete sets of operation and maintenance manuals for the Pumping Equipment and Electrical Equipment. The delivery of these manuals shall be made by the bidder to the Engineer along with the supply of equipment. The manuals shall be appropriately bound in book form and shall contain all necessary instructions regarding operation, preventive maintenance, repairs, trouble shooting, overhauling etc.

The manuals shall also include detailed drawings of the equipment, circuit diagrams and station layout with all items properly identified. The manuals shall also include the spare parts catalogues with part numbers clearly given, which must tally with index numbers in the drawings.

30. Cleaning Up: On completion of the works the bidder shall clear away, load into trucks or any other transport and remove from the site all constructional plant, surplus materials, dismantled or otherwise, earth and rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workmanship condition, to the satisfaction of the Department.

31. Power and Water Supply: The bidder/firm shall make his own arrangement, at his own cost, for all lines, individual power points, etc. to the machinery and plant required by him for the erection, testing and commissioning of the equipment ordered on him. The bidder shall pay for all electrical energy consumed by him

Office of the Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sophic Electron (North) Sophic Electron Mechanical Division (North) Sophic Electron (No

for this purpose at the prevalent electricity tariff in J&K State. Such charges shall be paid by the bidder/firm provides for this purpose at the prevalent electricity tariii in Join State. Sash shall be settled only after he gets a no direct to the Electricity Corporation and the bidder's final bill shall be settled only after he gets a no outstanding certificate from the Electricity Corporation.

The Government shall not be responsible, and the bidder shall have no claim whatsoever for any interruption in power supply or voltage fluctuation or total cut off at the site. The bidder/firm must provide an alternative source of power, at his own cost, at the site for completion of the work. The bidder shall make his own arrangements for water to be used for the execution/Hydro-testing/ water tightness Test/ Curing,

- 32. Any incidental works required thereof for fitment of the pipes / allied equipment/works etc. shall be deemed
- 33. The drawings for gantry and other ancillary works shall be provided to the executing agency by the I/C engineer.
- 34. Agreement: As soon as letter of award is communicated to the firm, the contract shall be complete and binding upon them, the bidder/firm shall also be required to execute an agreement with the competent authority within seven days from the date of issue of letter of award. Failure to execute such an agreement in time shall not however, prevent this contract from being enforced against the firm and the date of delivery of the material/completion of works shall be reckoned from the date of issue of the letter of award in favour of successful firm.
- 35. All other terms and conditions as laid down in Form No. 25 of P.W.D. shall remain in force and binding on successful tenderer.
- 36. Any rules/terms and conditions, if not stipulated in the bidding document, shall be strictly dealt in accordance with the relevant rules/guidelines stipulated in the General Finance Rules (GFR 2017) and Manual for procurement of Works 2019 Government of India.

37. Consignee/Paying Authority: The consignee/paying authority in respect of electro-mechanical component and allied civil works shall be the concerned Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sopore

> **E**cutive Engineer nakti PHE Mechanical Division (North)

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Sopore

A		Product		No.	
1	Description	Unit	Qty.	Rate	Amount
Prov	viding, fitting, installation, testing and commissioning of Submersible pumping unit as per IS 8034 of following		-		
	cifications:				
	PUMP				
1	fficiency = Not less than 50%	1			
1	bischarge = 4200GPH  (vpe = .Mixed flow	1			
	iguid to be handled = Clear water				
1	RPM = 2900	1			
5.1	Head = 160 Meters	1	)	1	
	Prime Mover	1			
1	Type = Star Delta AC induction		1		
	Power Supply = 03 Phase, 380-41 5V± 15% AC		1		
	Frequency = 50Hz±3%  RPM = 3000 Synchronous				
	HP = Corresponding to Head and discharge but not less than 30HP.				
1	ATERIAL OF CONSTRUCTION:				
1	peller = Stainless Steel				
Pu	mp Shaft = Stainless Steel SS 410.				
1	Imp Casing = Cast Iron/Stainless steel				
1	IPELLER:				
1	peller is of the enclosed or semi – enclosed type and properly balanced. Enclosed Impellers equipped with seal		1		
	ngs on their hubs.  DUPLING:				
- 1	suitable coupling arrangement provided with pump set.	1			
1	on-Return Valve: -	Job	2	1,27,300.00	2,54,60
	on Return Valve of the suitable size provided above the pump discharge case.			1	
1	IOTOR:				
- 1	Method of starting =Star – Delta/DOL (as specified)				
- 1	peed=3000 (Sync).				
- 1	requency = $50 \pm 3$ % Hz Vorking Voltage = $415 \pm 15$ %v, 03 phase				
1	fficiency = Not less than 90%				
- 1	class of insulation = F/Suitable for above parameters				
S	ubmersible 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				
OCCUPATION OF REAL PROPERTY.	adial 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				
T.	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				
1	same size MS flange of thickness (as per Table-17) at another end for column pipe as per site requirement. The			1	
i	threaded portion should be as per size of pumping out let for proper fixing.				
1	The job includes providing and fitting of R. I. cloth joints/rubber washers with nuts, bolts and washers for all joints of				
1	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				
	be approved from the concerned sub-divisional office defore procuring				
					***************************************
	Fabrication of gantry mechanism/CGI shed/pump base frame by way of providing Structural steel in built				
	up sections, trusses and framed work, including cutting, hoisting, grouting, fixing in position and applying				
	a priming coat of steel primer and 02 coats of paint of approved shade all complete welded.				
2	The drawings and Dimensions for Gantry/CGI shed/pump base frame etc will be provided by Site In Charge				
	at the time of execution of job. The quantity may vary as it is conditional to civil structure being				
	constructed/as per site requirement.				
3 K 14	Providing of Structural steel in built up sections , trusses and framed work, including cutting , hoisting ,				
2.01	grouting, fixing in position and applying a priming coat of steel primer and 02 coats of paint of approved	Kg	950	135.00	1,28,2
	shade all complete welded/as per site requirment.				,
	Providing corrugated G. S. sheet 0.63 mm thick with zinc coating not less than 275 gram/m2 roofing				
	including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter				
	with bitumen and G.I limpet washers or with G.I. limpet washers filled with white lead, including a coat of				
		1	1 12	968.95	11,6
2.02	approved steel primer and two coats of approved paint on overlapping of sheets complete (upto any pitch	Sq.m	12	300.33	12,0
2.02	in horizontal/vertical or curved surface) excluding the cost of purlins, rafters and trusses and including	Sq.m	12	308.33	12,0
2.02		Sq.m	12	308.33	12,00

	The state of the s		-		dha. at
	visto size fabricated out of 14				on hase in volte
	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: MUG: 50				ed treiter to the contract of
	MUG: 50 a. Main Circuit Breaker (Incommer MCCB) of rating = Thermal release range 160-200A with S.C. Breaking Capacity of 50kA=(02No's)				
	b. Changeover Switch of rating = 200Amp (01No.) c.Bus Bar copper = 200A = (01No.) d. Motor Breakup Protection MCCB of rating = Thermal release range 125-160A With S.C. Breaking Capacity of 36kA = (02No's) e. FASD starters: Motor rating 3-phase 415V, 50HZ AC-3 Duty with Relay range of 45-75Amp (02No's)				Darkhar Skrin
	f. Auxillary MCB for f.Heating/Lighting = 63 Amp.(01No.)				
	Detailed specifications:  a) Bus bar Chamber:			2 02 106 00	303:
3	The bus bar chamber shall be fitted at the top of the panel horizontally throughout the length. There shall be 3 Nos. of phase 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 100/200	Job	1	3,03,186.00	3,03,186.00
	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 color strips of red, yellow, blue and black and the same be arranged in				
	accordance with IS-375 specs. Electrical clearances shall be maintained between phases, neutral and body				
	as per standards. b) Main Circuit Breaker (Incomer MCCB):				
	Qty:=02				
	No. of poles =4 Pole				
	Current Rating = As per requirement.				
	Rated operational voltage=415 V + 15 %				
	Rated frequency=50+/-3%Hz				
	Ambient temperature=40C*				
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz)=As per requirement				
1	Type of release=Thermal-Magnetic				
	Overload protection=0.8 – 1×In adjustable				
	Short-circuit protection=6-10×ln adjustable.				
Re(0) 1	Current rating = As per requirement				
	c) Change over Switch:				
	Qty. = 01 No.				
	Rating = As per requirement	]			
	Type =Front operated, on load, 4 pole, 400 +15%V, 50 + 3%Hz.				
NEW E	1) Motor Back-up Protection MCCB:	1			
	Qnty=2 No No. of poles =3P				
	Current Rating = As per requirement				
1000	lated operational voltage = 415 V +15 %				
	lated frequency =50 + 3% Hz				
	mbient temperature =40C*				
MODELLE AND	litimate S.C Breaking Cap. at (415V AC, 50 Hz) = As per requirement				
	current rating = 200 A				
e	Submersible starters:-= Fully automatic star delta/DOL starters.				
C	apacity = As per requirement	1			
P	ower Specs = 3 Φ, 415 + 15% V, 50 + 3 % Hz.	1			

Relay range

As per requirement.

,						
1	tection = single phasing , phase					
-	eversal, phase unbalance (55 ± 5 V) ,  Rated insulation voltage = 690V					
	Terminal capacity = 120 Sq. mm with lug Or above		-			
	Confirmity to standard = IS/IES 60947-4-1					
1	Qty. =2 No's					
1	f) Auxiliary MCCB for Heating/Lighting:					
1	Circuit Breaker=MCCB (Outgoing)		1			
1	Qty.=1 No.		1			1
1	No. of poles=4P	1				
F	Current Rating =As per requirement.	1				1
	Rated operational voltage = 415 V + 15 %					
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = As per requirement					
	g) Motor Protection Relay:					
	Digital Motor Protection Relay with LCD Display for 3-phase supply with following protections suitable for					1
	the Modular Control Panel:-					
	Protections = Thermal Overload with pre-alarm, Short Circuit, Phase Loss, Unbalance, Phase reversal, Under					
	Current, over current, Prolong starting, Locked Rotor, Under voltage, over voltage & Earth fault.					
	h.M-power module for mobile starter for submersible motor 1P/3P 3 wire					
	IVRS Languages – English , Hindi,					
	Suitable Region- North India The panel shall be provided with phase indicators (03 N0) and digital ammeter of range 0-60 A, digital		}			
	voltmeter of range 0-500 V, and digital frequency meter (01 No for each starter). The enclosure of the					
	panel shall be of excellent fit and finish, corrosion resistant and powder coated gliding hinges for smooth					
	and noiseless movement of windows and advanced locking arrangements.					
					+	
	MUG-50 as per following specifications: i) Bus bar 200A size (10 mtrx .02 mtrx 0.003 mtr x)8960 kg/m3 =5.38 kgs		,			
	ii) D-sine MCCB 4 pole = (DN2 250N, 160-200, 50KA)					
	iii) Change over switch = Front Operated 200A				1	
	iv) D sine MCCB 3 pole = (DZ1-160D ,84-125, 36KA)					
	v) Mug (Details as per estimate) x 2 = (Mug 50, 45-75Amp relay)					
	vi) Auxiliary MCCB = 63Amp					
	vii) MM 10 of L@T (Motor Protection) = Motor Protection					
	viii) Module for mobile starter					
	ix) Meters, (Ammeter & voltmeter) 2No. each and Freg Meter					
	x) Indicators = LS		ł	1	1	
Section 1	x) Indicators = LS xi) Over load and Under Voltage = Minlec					
	x) Indicators = LS xi) Over load and Under Voltage = Minlec  Rating: 75KVA					
	x) Indicators = LS xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of voltage stabilizer as per specifications below:					
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4	x) Indicators = LS xi) Over load and Under Voltage = Minlec  Rating: 75KVA Providing, fitting, testing and commissioning of 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.	job	2	1,63,721	.00.	3,27,442.06
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4	xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of 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.  Load Amperes (continuous)  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		2	1,63,721	.00	3,27,442.00
4	xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of 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.  Load Amperes (continuous)  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).		2	1,63,721	.00	3,27,442.04
4	xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of 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: 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. Load Amperes (continuous) 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 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 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 phase		2	1,63,721	.00	3,27,442.00
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4	xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of 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. Load Amperes (continuous) 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 (0-500Y) 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 S 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.		2	1,63,721	.00.	3,27,442.00
4	xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of 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: 250-400 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: Maturally, 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. Load Amperes (continuous) 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 the collaboration and shall have to feel.  The voltage Stabilizer shall be accepted with manufacturers dully stamped test certificate and shall have to feel.		2	1,63,721	.00	3,27,442.06
4	xi) Over load and Under Voltage = Minlec  Rating: 75KVA  Providing, fitting, testing and commissioning of 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. Load Amperes (continuous) 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 (0-500Y) 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 S 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.		2	1,63,721	.00	3,27,442.0

	5	Providing, fitting and successful testing of 03 M1 capacity, manual type chain pulley block with monorall geared travelling trolley of triple spur gear type with a minimum lift of 06 mtrs robust chain as per 15 and 3832 2005. The equipment shall be heavy duty type. The job includes supply of suitable diameter and length soft flexible steel Sling (Qty = 02 Nos) for hoisting of above chain pulley block. "  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:  i. Make = Reputed make  ii. Capacity = 3 ton (P)  iii. No. Of load chain falls = 2 or above  iv. Min. Height of lift = 6 M  Test Certificate of manufacturer is Mandatory		, 1	62,972.0	direction of the state of the s
		Fabrication, providing, fitting and lowering of C Class. NB 80mm column pipes conforming to IS: 1239 of length 10 Rft into the 250 mm casing dia, production well up to the desired depth; The job includes Providing and welding of flanges conforming to IS: 6392, Table-17 and PN 16 to these pipes and welding of flanges in two layers to make the flanged joint strong and leak proof. The pipe of 10 ft length is to be weld on both sides with flanges using welding rod of reputed make. The job includes all types of skilled labours, arrangement of power supply/ diesel Generator set etc required for the job including P/F of suitable size nuts bolts and R.I Gasket in the flanged joints of column pipes. The job further includes cutting of 2 no. rectangular cable slots in each flange.	job	18	5,543.00	99,774.00
	7	Fabrication, providing and fitting of 90-120 degree bend/elbow to be fabricated out of 80mm dia GI bend with flangesClass 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. The quantity may vary as it is conditional to civil structure being constructed/as per site requirement.	job	4	2,797.00	11,188.00
	8 f.	Fabrication, providing, fitting T - junction out of 1 mtr of pipe with length of 1.2 ft each arm. 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) astened with weld Joints on three ends. The job includes all types of skilled labours, arrangement of power supply/diesel Generator set etc required for the job including P/F of suitable size nuts bolts and R.I Gasket in the flanged joints.	job	1	4,050.00	4,050.00
9	Si. Ph Th ru ap It s Th Co Th inb per	roviding and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate/ sluice alves as per IS14846 for regulating the water supply outside the pumping units.  Ze: DN80mm N:1.6/16 The body and bonnent of the valve shall be of ductile iron, wedge with fully vulcanized EPDM subber(Approved for drinking water) and NBR seal. The Gate/Sluice valve shall be compatible for buried splications and shall be safe to install in both horizontal and vertical positions 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.  The state 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 soult flanges of the valve which shall be fitted with rising main of the pumping unit at appropriate spots as a site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the	Job	2	15,497.00	30,994.00
10	PN: Profite drin hori It sh Cost The inbu	e: 80mm i: 1.6/16 ividing and fitting of Ductile Iron double flanged, Slanted seat swing check valve( NRV) as per IS 5312. is body shall be of ductile cast iron with fully encapsulated vulcanized EPDM rubber(Approved for naking water). The valve shall be compatible for buried applications and shall be safe to install in both izontal and vertical positions. In all have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. It on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. I job includes providing and fitting of 02 nos. M.S flanges (Table flanges) perfectly adaptable to the utilit flanges of the valve which shall be fitted with Rising main of the pumping unit at appropriate spots or site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for	Job	3	17,489.00	52,467.00

, o. z.		Aiding, fitting, testing and commissioning of 50mm ARV (Air Release valve) as per IS 14845 to be fitted G I rising Main. The ARV Shall have the following specifications:  Valve type - single chamber, single/double orifice.  II.End connection - flanged ends to IS 1538  III.Working temperature - 45oc to -150 c  IV.Test pressure - body / seat 2.5 x PN  V.Sealing ring - EPDM  VI.Construction - ductile iron with stainless steel floats  VII Coating - epoxy with corrosion resistance  Besides the above works, The job also cost on account of P/F R.I gasket, GI Pipe, nuts and bolts required for installation of ARV and arrangement of gas cutter/ welding set at site.	No	1	19,394.00	19,394 00
	1.	Fabrication, providing and fitting of split type MS clamps 12 mm thick, 2.5 it long and 3 mm was to lowering and holding of pumping unit and column pipes. The job includes the cost of required size of nuts	job	2	2,200.00	4,400.00
		Rating: 100 KVA HT Transformer, 3 phase (Level 2).  Supply, installation, commissioning and creation of pole mounted, outdoor type Electric 5ub Station 11/0.433 KVA, 3 Phase Distribution Transformer with Bimetallic Terminal connectors Energy level 2 Aluminum wound, 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 at a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jel 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.	Job	1	2,09,945.00	2,09,945.00
1	W 100	upply, installation, erection of 9 mtrs long H.T pope of specifications ST410 (SP-33). The job further necludes drilling of holes for installation of various accessories wherever required the job further includes a wife earthing of pole as per REC standard as per Clause 32/as per site requirement.	Job	16	20,686.00	3,30,976.00
		ement bottoming 1:2:4 mix as per REC mix as per REC standards 0.5 cum/pole	job	16	3,539.00	
1	5 C	F of Galvanized nuts, bolts of various sizes as per site requirement.	Kg	80	142.00	
17	7 6	Barbed wire for Anti Climbing with fixtures /as per site requirement.	kg	80	136.00	
18	P/	F Danger Plate with clamps	No	16	153.00 421.00	
19	COLONE SPECIAL	vedge connecters/PG Clamps/as per site requirement.  oviding and fitting G.I Channel /platform for T-bed/Angle/ Flat /Riser of sizes/GI V cross-arm with top	No	30		
20	Su trip OF con	pply, Installation, Testing and commissioning of Polymeric Gang operated Air break switch, outdoor type, ple pole, suitable for vertical installation, single break provided with locking arrangement at both ON and F position assisting of HT post double insulator, copper or copper alloy high pressure heavy contact assembly, rod the bearings, operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of	Kg Set	2	11,730.00	
22	Sup	ulators, rated voltage 11KV 200A complete as per IS specs.  poly, installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A suitable installation.	Set	1	4,983.0	4,983.00
23	Sup	vertical installation  ply, Installation, Testing and commissioning of Gapless Surge arrestor station class, 10KA, 9KV, LA With  ymer housing, Station Type inleuding providing and fitting of DO set	Set	1	7,754.0	7,754.00
24	Sup	ply and fitting of 11 KV polymeric composite disc insulator 12 KV, minimum falling load 45KN, Lighting ulse 75KV Positive, and 80 KV Negative, creepage distance 320 mm.	No	3	596.0	1,788.00
25	Sup	ply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN, Lighting impulse 75KV Positive, 80 KV Negative, creepage distance 320 mm as per Clause 31/as per site requirement.	No.	48	347.0	16,656.00
26	Pain	iting of poles Red oxide	lit	16	306.0	0 4,896.00
27		ting of poles Aluminum paint	lit	16	510.0	0 8,160.00
		Iry item: Vke aluminium lugs, jumpers, binding tape.	LS	1	1,755.0	0 1,755.00
28	Juill				1 -,, 23,6	

					- 16 6 6 Mg
29	the stability as parts 36/29/85, Glinuts & bolts, refilled with earth	Job	7	10,462.00	13.23 T
No. of Contrast	land earth Chamber made of brice massions y	Meter	1200	60.00	72,000.00
30					
31	Capacity of transformer: 100 kVA Providing and fitting of LL Distribution box for H.T transformer with MCCB For incomer and SFU for outgoing circuits. The job includes providing and fitting of required size cable, thimbles, clamps and fixtures etc required for	job	1	39,422.00	39,422.00
32	(the job Galvanised stay set with 50x8mm stay clamp, guy insulator(02No.),anchor plate(200x200x6mm),nuts and bolts,2No. Turnbuckels,1.8m long,16mm diameter solid G5 stay rod and 7/3-15mm dia G1 standerd wire	set	2	4,922.00	9,844.00
33	complete. Supply, Installation, testing and commissioning of 3 phase, 4 wire. Trivectometer with suitable ring type CT complete unit as per latest IEC Standard The required size cable for input and output connections (as per site requirement) with all allied accessories, transportation charges, labour component, earthing etc. are included in the Job.	Job	1	27,000.00	27,000.00
34	Providing of bamboo ladders 18 feet long along with 15 feet long Link rods and HT Glove pair (01 No each)	Unit	1	7,350.00	7,350.00
35 b) lik	Electrification and illumination of pump house by way of providing & fitting. Eight No. of lighting points. and Two No. of heating points viz:  a) Wiring to lighting points with 1.55q mm and heating points with 2.55q mm PVC single core multistranded copper conductor insulated, unsheathed 1.1 KV grade ISI marked with length as required upto control panel as per site requirment.  b) PVC conduit/ channel 1.5" and 1" to be fitted on walls of pump house as per site requirment. c) Eight No. of Rulb holders (angle type or any other type) with eight No. of 12Watt LED bulbs.  f) Modular Switch boards—with frame to be fitted on walls of pump house consisting of ISI marked items like 10A switches, indicator, 03 pin flash type socket for lighting (As per requirment) and combined 16A witch and 05 pin flash type socket(02No)for heating.  he Job Includes cost on account of material, skilled labour,tools and tackes, including screws, cement nails, and plugs and other consumable items. As ner site requirement.	dot	1	28,000.00	28,000.00
Jillu Pro 150 pro 1133 2133 The bett 2' le The from The incluinclu	dumination of Premises: Soliding and erection of 9 Mtr long Hot Dip Galvanized octagonal pole (single Section) with bottom somm, top 75mm wide, thickness 3mm with 70 Microns Zinc coating having inside arrangement for soliding of power connection along with following items.  3 Way Terminal Connector 20 Amp.  4 No MCB 8 Amp.  5 Job includes fabrication, providing and fitting of three arm GI structure at the top having 120° angle tween arms and each arm having 15° inclination with respect to horizontal plane. Each arm should be of eight and size and shape appropriate as per requirement of the luminary.  6 Job also includes providing and fitting of required length of flexible multi strand 2 mm copper wire meach terminal connector to each holding arm.  9 pole is mounted on 1:2:4 Cement concreting of size not less than 2'x2'x6" (cost of concreting not uded in the Job) using 04 No anchor bolts of required size not less than 7" in length. The complete job udes earthing in GI Electrode as per relevant IS Code	dot	1	22,226.00	22,226.00
, volta	viding, Installation and testing of 2KVA fully automatic copper wound voltage stabilizer with input age 70-240 V and output 220 V. The stabilizer shall be installed and connected to the electric circuit as location provided by site in charge.	Job	1	8,154.00	8,154.00
of oct Havin Input Powe Colou Beam Lume Opera The Li to IP-( The Li	ED is properly fitted on the arm of the pole and connected to the copper wire as provided in the high	dot	3	9,486.0	.00 28,458.00
	cation of 6'x3' (2No's) angle iron beds having 2' height using 50x50x6mm angle iron by way of iding and fitting of Structural steel in built up sections, trusses and framed work, including cutting, ing, fixing in position and applying a priming coat of approved steel primer all complete welded	Kg	g 82	2 135.	5.00 11,070.00

13,20	all complete including painting of the play sheet by one coat of primer and two coats of enamel paint to be fitted on the angle iron beds. The job includes cutting and fixing of Ply wood on angle iron beds of item no.  47 for esting.  Proviling and fitting of 400mm ISI Marked sweep wall fan	Sft No.	36	154.00 3,600.00	5,544.00 3,600.00
	Providing of good quality conveinence and utility items  a) Providing of good quality bedding for night stay/Shift consisting of: - ii) Mattress with warm cover size 6'x3' (6Kg)- 02 No's iii) 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,	Job	1	39,619.00	39,619.00
	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  1. Double ended Spanner (Chrome plated) 02 sets complete  11. Double ended Ring spanners chrome plated 02 sets complete  11. Double ended Ring spanners chrome plated 02 sets complete  11. Allen key set black finish 02 sets complete  11. V. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No.  12. V. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No.  13. Vi. Insulated screw Drivers  14. Blade length in mm Blade dia. in mm Tip dimensions in mm Quantity  15. So31.6 x 0.402  10. To31.6 x 0.402  10. To31.6 x 0.402  10. To31.6 x 0.502  20. To31.	job	1	28,840.00	28,840.00
4	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 mm2 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	34,053.00	34,053.00
4	Supply, installation of 6 kg CO2 type fire extinguisher manufactured as per IS: 15683 of 2006 with IS mark and comply with DGMS (Approval). The co2 extinguisher should be suitable for class B & C fire and also for fire involving electrical equipment. The cylinder used for fire extinguisher shall be approved by petroleum and explosive safety organization (PESO) as per gas cylinder rules 2004 and as per IS: 7285 of 2004. The body should be made of seamless steel (manganese) confirming to IS: 7285 with IS mark and should be provided with squeeze grip nozzle and should be filled with co2 confirming to IS: 15222 of 2002 with certificate. The extinguisher shall be provided with manufactures test certificate and hydraulic test certificate by BIS from PESO.	Job	2	6,447.00	12,894.00
46	Providing, laying & fixing of shock proof rubber mats with adhesive/bonding material of insulation rubber mats on the 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: - 2.5 mm Size: - 1M wide.  The rubber mats shall be accepted with manufacturers test certificate.	Meters	8	1,205.00	9,640.00

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	forming to IS				
	Providing and Fitting of 70 sqmm, 3.5 core LT 1.1 KV, XLPE Armoured Aluminium Cable conforming to IS:				Ideas Richa
Onlesson	17099 hart 18t at territe life (1011) the first		70	668.00	
1	Terimping, taping etc.	1			46,760.00
47	NOTE - The cable terminal ends for connection to switchgear at various and connected by hydraulic crimp tool only.				
100			30	260.00	
	Providing and Fitting of 10 sqmm, 1.1KV 2 core PVC Insulated Sheathed 2 Core copper cable for connecting	Meter	30	200.00	7,800.00
48	Lighting pole with power supply conforming to IS 694:2010.  (Lighting pole with power supply conforming to IS: 694 (Part 1st) –				
	Lighting pole with power supply conforming to IS: 694:2010.  Providing and fitting of 3-Core flat 25sq.mm submersible copper cable conforming to IS: 694 (Part 1st) —  Providing and fitting of 3-Core flat 25sq.mm submersible copper cable conforming to IS: 694 (Part 1st) —  1964 & IS: 694 (Part 2nd) - 1964 for Submersible Pumping Unit and other electrical Equipments . The cable	Meter	180	1,105.00	1,98,900.00
49	I 1 GEA & IC- EQA (Part 7 nd) - 1964 for Submersible Fumping of the	IVICEC.			
and the same of th	connections terminal shall be fitted with copper thimbles of required size.				
	Providing, installation, testing of power wiring for working voltage up to and including 1100 Volts, 25 Sq.	Meters	90	394.00	35,460.00
50	mm PVC insulated copper cable for internal connections as per IS 694 along with thimbling as per				
-	requirment at site.  Bio-toilet of size 4/x4/x8/ with FRP bio-digester tank of capacity 700 liters with anaerobic bacterial				
	incolumn 200 liters complete with all accessories:				
	Providing/construction/installation/commissioning of onsite brick masonry constructed/pre cast, re-				
1	nforced concrete constructed/fiber reinforced plastic constructed toilet block with bio-digester super				
	tructure shall be:				
1	eneral specifications				
8 (	On site constructed/factory made				
1	lingle unit/ paneled form as per site requirement Easy to maintain and clean	1			
1 1	If weather protection				
1 1	/ell ventilated				1 10 500 00
51 .St	nall have no effect on natural calamity with regard to Effluent drawn out	job	1	1,49,600.00	1,49,600.00
.St	nall be feasible for operation under -15 to 40 degree celcius temperature.	- 1		1	
	chnical specification for onsite constructed/pre cast RCC toilet super structure	1	1		
į.	pilet block size: 4ft x4ft x 8ft	1	1		
	aterial-Precast concrete M25, onsite brick masonry or fiber reinforced Plastic			ĺ	
1	sired features of toilet block: es- upto 3ft on side walls or as material of construction				
	or-Tiles or as material of construction	1			
AND DESCRIPTION OF THE PERSON	nt on outside walls and inside walls as per material of construction			-	
	estern toilet sheet made of ceramic (as per site requirement)	1	1		
.Тар	s and flushing system- Water tap at a nominal height of minimum 13inches for Orissa Pan	1	1		
	ctric wire to connect the bulb				
	nd for water tank-Mild steel of ISA 40x 40 x5mm with CGI roof and proper frost protection during				
wint		1		1	
The state of the s	r-PVC/AL/FRP any other water proof material		İ		
	er tank of capacity 300liters of HDPE(with an openable lid) for the supply of water ( to be placed on vith suitable frame)				
	d washing basin with tap etc		1		
	nical specification for Sanitation Unit for solid waste management (Bio digestor)		1		
Marie Contractor	city of bio-digestor: 900liters				
	n- With four chambers to ensure long hydraulic retention time				
	truction of bio digestor- UPVC/on site concrete constructed/ any other chemically in-active material				
	yst-Highly effective Bio catalyst				
CORP. CONTRACTOR CONTRACTOR	mn-The cocktail of bacteria duly certified by DRDE of 30% of the volume of digestor				
	gestor lining-Inert vulcanized 1.0mm thick butyl/EPDM rubber CE marked and non-voven geo textile		1		
	teria retention				
	less of lining- 2mm ial of portion waffle-concrete/any other chemically inactive material				
	-lugs ,.3-4 people usageFurther, job includes all types of works like earth work excavation for bio		1		
ALTERNATION OF THE PARTY OF THE	r, carriage, transportation, handling, pipes for inlet connection for tank, other pipes etc for disposal				
The state of the s	ents as per latest Govt norms, electric connection, lock etc.The quantity may vary as it is conditional				
	structure being constructed/as per site requirement.				
34			$\perp$		A
	Total advertised/estimated cost:				30,64,511.40
	Percentage quoted by L1 firm  Total allotted cost:				-2.00%
	Rupees Thirty Lakh Three Thousand Two Hundred and Twenty One Only				30,03,221.00
				1	

Executive Engineer

Jal Shakti (PHE) Mechanical Division (North)

Sopore

Office of the Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sopore

Website: phekashmir.com Email ID: phe.mdns@gmail.com

No.: PHE/MDNS/DB/ 4/27-34
Dated: 28-08-023.

M/s Reliance Engineering Works
Johama Road Kanispora Baramulla
GST No: 01NOHPS1016G1Z4

Cell No: 9419993999

Adv. Cost: Rs 50.474 Lacs
Allotted Cost: Rs 49.338 Lacs

Subject:

Electrical and mechanical works to be carried at WSS Bulgam (Production well) under JJM.

Reference:

. This office e-NIT No.: e-NIT No. 02 of 2023-24, S. No. 01 issued under endorsement No.: PHE/MDNS/DB/117-30, dated: 10-04-2023.

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/4662-75, dated: 25-07-2023.

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 Bulgam (Production well) 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:

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Annexure A: General Terms & Conditions.

Annexure B: Schedule of cost and quantities.

Encl. \_\_\_ leaves

Executive Engineer

Jal Makti 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 13(a) 13/24 at 5/20, for favour of information.

5. Executive Engineer Jal Shakti (PHE) Division 10(a., for favour of information.

6. Provisional Head, TPIA JJM Kashmir, (WAPCOS Limited) Corporate Office 76-C Institutional area Sector-18 Gurugram-122015 (Haryana) for favour of information.

7. Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division \_\_\_\_\_\_\_ for information & necessary action.

8. File concerned.

to this office Allotment Order No: Phe/MDN3/DB/\_ Electrical and mechanical works to be carried at WSS Bulgam (Production well) under IJM Name of work: Amount Item of work Quantity Rate S. No Yiding, fitting, installation, testing and commissioning of Submersible pumping unit of approved make with following specifications: Discharge of the Pump = 4000 GPH at 70M Dynamic Head Range = 70-85 M Speed = 2900 RPM Working Voltage =  $415 \pm 15 \,\text{V}$ , 03 phase Rating = Corresponding to the head and discharge not less than 12.5 HP as per IS 8034 with following specification are as under: PUMP: = Not less than 50% Efficiency Speed = 2900 Rpm 1,93,842.00 96,921.00 2 Type of pump = Mixed flow. Type of fluid to be handled = Clear Water MATERIAL OF CONSTRUCTION: Impeller = Stainless Steel = Stainless Steel SS 410. Pump Shaft = Cast Iron/Stainless steel Pump Casing 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. MOTOR: Method of starting = Star - Delta/DOL (as specified) Speed = 3000 (Sync). = 50 ± 3 % Hz Frequency Working Voltage = 415 ± 15%v, 03 phase = Not less than 90% Efficiency F/Suitable for above parameters Class of insulation = 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. Fabrication, providing, fitting and lowering of C Class column pipe conforming to IS: 1239 of length 10 Rft into the 250 mm casing dia. production well up to the desired depth; The job includes Providing and welding of flanges conforming to IS: 6392, Table-17 and PN 16 to these pipes and welding of flanges in two layers to make the flanged joint strong and leak proof. Each Flanges to be U grooved on both side to avoid damage to cable. Also MS triangular plates to be welded to each flange with pipe . P/R.I. cloth , nuts and bolts as per site requirement) 2,62,128.00 60.96 4.300.00 Meter Nominal Dia:65 mm (DN65C Heavy) pipe. The pipe of 10 ft length is to be weld on both sides with flanges using welding rod of reputed make. The job includes all types of skilled labours, arrangement of power supply/ diesel Generator set etc required for the job including P/F of suitable size nuts bolts and R.I Gasket in the flanged joints of column pipes. The job further includes cutting of 2 no. rectangular cable slots in each flange. Fabrication, providing and fitting of split type MS clamps 10 mm thick, 2 ft long and 3 inch wide for lowering and holding of pumping unit fitted. The job includes the cost of required size of nuts and 3.602.00 1.801.00 2 Set 3 bolts. Size: 65 mm Fabrication, providing and fitting of flanged flanged to delivery mainfold 90-120 degree bend/elbow to be fabricated out of Class C GI pipe, 1 m length and flanged on both ends and to make it leak 5,594.00 2.797.00 Job 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.

Fabrication, providing and fitting of washout Tee 80mm ncluding nuts, bolts and gasket as per site requirement, with arm length 1.2 feet each (Approx.). 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

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Job

4,050.00

4.050.00

	Dia: 80 mm  Cutting of hot dip galvanized G.I, C-Class pipe across the section by dint of pipe cutter/ gas cutter.  The job also includes Providing and welding of M.5 flanges to the two ends of pipe. The Thickness of flange shall conform to 15 6392 Part 1st Table-17 tabular flanges. The flange welding shall be carried out in double layers using Advani/Esab/L&T-SS Bond make electrodes to form strong welding joint by dint of DC arc welding. The job further includes Providing and Fitting of nuts and bolts (conforming to 15:1363 Part 1st) and Rubber Insertion Gaskets (conforming to 15: 638/79) to be used	Job	6	1,340.00	8.000 CA
	between flanged joints  Dia = 80 mm DN80C(Heavy Class) Pipe  Providing/supplying and fitting of G.I flanged Rising Main/washout at site. The Pipe shall be hot dip Providing/supplying and fitting of G.I flanged Rising Main/washout at site. The Pipe shall be hot dip Providing/supplying and fitting of M.5 Flanges Galvanized, class C confirming to IS 1239. The job includes providing and fitting of M.5 Flanges Galvanized, class C confirming to IS 1339/1997 Table 17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrode of reputed make.  Elegges (as per IS 6392/1997 Table:17)	Meter	30.49	1,485.00	45,277.65
8	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.	No	2	17,489.00	34,978.00
9	Dia = 80 mm 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 bonnent 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.	Job	2	15,497.00	30,994.00
Francisco de la composición del composición de la composición del composición de la	Investigation of the state of t	Jot	1	4,73,340	00 4,73,340.00

	rechargeable. When fully recharged, it will last over 10 hours of operation. 100V-240VAC for the sharger				
1	Data Logger Built in data logger can store over 2,000 lines of data.  Mousing Material Protective case suitable for normal and harsh environment.				
-	Acoustic Coupler Silicone free grease/Silicone grease Croviding and fitting of 10-12 mm Dia Steel wire rope for holding of Pump/motor unit & column	_			
A THE RESERVE OF THE PERSON OF	the second secon	Meter	100	150.00	15,000.00
	Construction of (10°-0°x8′-0°x4′-0°) gravel pack holding, control chamber and watering mechanism involves following:  a) Earth work excavation for foundation trenches in all kinds of soil, including dressing of sides and ramming of bottom with all leads and lefts.  b) Cost in situ/ providing and laying of M20 (12 inch thick wall) grade cement concrete in stone aggregate (quarry) including shattering, centering, removal of shuttering and curing complete. (-1.5 cm)  c) Fab. P/grouting in above concrete work ISMC 100 angle iron frame of (10-0°x8′0°) with side holding cleats.  10°x9 No. 4°x11 no°x, 4°x10 nos′ for vertical supports,  ISA 50x50xSmm=40°  disabrication, providing, fitting of top cover in four halves out of 8mm thick MS chequired sheet of 10°x8° (2.5°x8°x4)for covering of the above gravel pack chamber and control valve chamber from the top including the cast of flushing hole for column pipe, lift holes for wire rope. The halves should be fixed with heavy duty hinges minimum 4 for each pieces.  d) Painting by primary coat of red oxide steel primer and then black paint. (1 job)  e) Providing and fitting of pressure guage at delivery line.  f) Providing and fitting of water mechanism in PPR fitting for gravel g) Providing and filling of pea-gravel for production well. 200 Sft  The above job executed at site by Shifting of desired tools, tackles & machinery done by skilled labor.	Job	1	1,50,000.00	1,50,000.00
13	Capacity 63 kvA Supply installation, testing and commissioning of level II HT Transfromer 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 amendments.	Job	2	1,71,963.00	3,43,926.00
	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 the required equipment in the concerned department for all the required equipment.				
14	be completed only after obtaining above certificate.  Supply, installation, erection of 9 mtrs 9 +B96:C118m Long pole H.T 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.	Nos	6	20,686.00	1,24,116.00
15	Cement Bottoming 1:2:4 mix as per REC standards 0.5 cum/pole	Job	6	4,364.00	26,184.00
16	G.I V cross with top Bracket including clamps Supply, installation, erection of 9 mtrs long H.T pope 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.	Kgs	125.26	202.00	25,302.52
17	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	Nos	24	347.00	8,328.00
18	P/F of Galvanized nuts, bolts of various sizes as per site requirement.	Kgs	15	142.00	2,130.00
Sec. 2/15	D. F. Danner District of the classes	Nos	6	153.00	918.00
19	P/F Danger Plate with clamps				
20	Providing and fixing G.I Barbed wire for anti-climbing/anti-climbing devices	Nos	6	315.00	1,890.00
20	Providing and fixing G.I Barbed wire for anti-climbing/ anti-climbing devices  Earthing complete by GI Pipe 40 mm or GI Rod 20 mm 2.5 mtr long through GI Strip	Nos	7	2,437.00	17,059.00
20 21 22	Providing and fixing G.I Barbed wire for anti-climbing/anti-climbing devices				

			Nos	1 9	9	421.00	170 001, 100
	25	PG Clamps to 50 spmm ACSR conductor	Mete	1	50	56.00	Position of the control of the contr
	26	Providing and fitting of ACSR as per IS 398 (part-2) 1996 for 50 sq.mm. ACSR (Ostronomics)		-	52	202.00	0,400%
	27	reinforced) for fitment of various accessories	Kgs Set			11,730.00	71,104 (s) (3) 23,460.00
	29	11 kV polymeric composite Disc Insulator 12 kV, Min failing load 45kN, Lighting Impulse 75kV	No	5	6	340.00	2,040.00
	30	Positive and 80 kV Negative, creepage distance 320mm  Supply, Installation, Testing and commissioning of Gapless Surge arrestor station class, 10KA, 9KV, LA With polymer housing, Station Type inleuding providing and fitting of DO set	No		1	7,754.00	7,754.00
	31	Supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A suitable for vertical installation.	Se	t	1	4,983.00	4,983.00
	32	50 sq mm (2 Ckt) 1.1 kV Grade, PVC Insulated Stranded Conductor FRLS Type	Met	ter	60	507.00	30,420.00
TO SPRING VALUE OF THE PARTY OF	33	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	No	os	3	10,462.00	31,386.00
	F	Back fill compound: 30 kg  Providing and fitting of LT Distribution box fitted with 200 A 4 pole MCCB for incomer and SFU for butgoing circuits.	N	os	1	39,422.00	39,422.00
1	35 n	Salvanised 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 GS stay rod & 7/3.15 mm dia	S	et	4	4,922.00	19,688.00
+	DESCRIPTION OF THE PERSON NAMED IN COLUMN	il Stranded wire complete Vedge connectors / PG Clamps	N	los	6	413.00	2,478.00
	Pi Jo	roviding, installation, testing and commissioning of outdoor type HT Trivectometer as per IEE Rule ob includes grouting of legs in cement concrete as per site requirement. All cabling, earthing and lied accessories required to be provided by the firm. Moreover firm responsible for completing all caling of PDD department and testing on load and noload at site	- 1	Nos	1	1,30,000.00	1,30,000.00
	SIL	ndry items like Alumunium Lugs , Jumprs, binding Tape		LS	1	1,052.00	1,052.00
	D/1	F of 11 KV cable termination kit for connecting 35 sq mm AB(HT) Cable (3x35+1x70 sqmm) XLPE LKV, 3C+Earth XLPE cable (ABC type) with the existing HT line near tapping point and HT		Nos	2	8,994.0	17,988.00
41	Pro Ind stal as p	nsformer.  Aviding & Fitting of 25 sq mm Single Core Copper Conductor (Flexible) PVC Insulated Heavy Dut  Sustrial Cables (Unsheathed), 1100 Volts Conforming to IS: 694- for connecting motors from part  bilizers in rubber conduit. Job includes providing & laying of flexible conduit for cu cable with  over requirement.	lugs	Meter	90	450.0	40,500.00
41	& tS conf the d	viding and fitting of 3-Core flat submersible copper cable conforming to IS: 694 (Part 1st) – 19 : 694 (Part 2nd) - 1964 for Submersible Pumping Unit and other electrical Equipment. The cable composite terminal shall be fitted with copper thimbles of required size. The main specification cable is given below:	of	Meter	180	711	1,27,980.00
42	Prov volts trans to be Alum	iding, installation, testing of power service cable for working voltage up to and including 11; 50 sq mm armored aluminum 3.5 core cable as service line from output terminals of HT/LT former to cubical panel. Cost includes laying of cable in trenches in Pvc conduit where ever laid underground as per site requirement included is termination of ends with suitable innum tube terminals dully crimpled & taped.  E:- The cable terminal ends for connection to switchgear at various requisite points shall be bles of reputed make and of appropriate size and connected by hydraulic crimp tool only.	rit is	Meter	60	49	7.00 29,820.00

3/ 0	12	V				
71,104,000	4	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.  equency :50 ±3 C/S.  Vi dings: 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.	dot	2	1,07,401.00	2,14,802.00
		Load Three phase induction motor load.  Load Amperes (continuous)  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				
44	E E E E E E E E E E E E E E E E E E E	Design, manufacturing, providing, fitting, testing & commissioning of Star-delta Motor control gear Panel.  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 cottom 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 outtons, name plates, painting, vents etc. generally as per details furnished below: atted Voltage of the Panel —— 440 Volts requency —— 50 HZ of Phases —— Three inclosure Details —— Free Standing, Floor mounted, Compartmentalized Design. atterial —— CRS inckness of sheet steel used —— 02mm plication —— Indoor ble Entry —— Bottom inting —— Shade Siemens grey.  Mian 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	Јор	1	2,34,676.0	0 2,34,676.00
	F	lated operational voltage 415 V AC ± 15% lated frequency 50 ± 3% Hz litimate S.C Breaking cap at (415 volt A C , 50 Hz ) 50kA				

	Laings					Te
b) Distribution bu	bar grade Cu with red, blue & yellow tapings				_	
of adequate s	tion.				0	-
Rating 20	Amp				S 3	
c) Change over Sv	ch					
Oty One	a avecution)					
Type Front	perated on load 4 pole (open execution)					
Rating 160	mp					
d) Circuit Breaker	nits					
Туре МССВ						
Qty 2 Nos						
No. of poles-	-3					
Rated current	100 Amp					
The second roles	range-					
Rated operation	al voltage 415 V 1 1576					
Rated frequer	50 ± 3% Hz					
Ultimate S.C.E	y 50 ± 3% Hz saking capacity at (415 volt A C , 50 Hz )50kA					
I ITAEP						
Power Specific	tion3 phase, 415 ± 15% v & 50 Hz					
Contactors:						
Line Contacto	AC3 70 A					
Delta Contact	r AC3 70 A					
Star Contacto	AC3 50 A					
1	- to fleetranic	1				
Thermal over	Delta Electronic ad relay – direct/CT operated Suitable/available range					
Coil Voltage : :	0/240V					
Qty 2 No		-				
1		1				
f) Aux. panel	MCCB					
Circuit breake	[VICCB					
Qnty01 no.						
No. of poles	4					
Rated operati	nal Voltage415+15%					
Ultimate S.C.	reaking Capacity35 KA at (415AC,50 Hz)					
g) Stabilization u	it for both starters					
Qnty02 no	di coltano stabilizar					
	single phase automatic voltage stabilizer					
Input :90V-30	t and the state of					
Out Put : 220	40 ( as per coil voltage of contractors)					
Enclosure t	be housed within the cubical panel in separated chamber					
with addition	meter , LED fitted outer side					
MCB DP 10	1nos					
1		1				-
Compact Mot	r Protection Relay including other related accessories like shigh protection					
laslav timor rolav	overload-under load, phase difference etc.					
Display	D/LCD and all setting is to be done at display	- 1				
Compact mot	protection relay	1	l	ļ		
Compact mot	procession	1				
Qnty :01 nos)						
Protections:	ng with display					1
		1				1
Last trip data re	ording					1
• Protections:						
- Thermal Overlo	with pre- alarm			1		
- Short Circuit						
- Earth fault						
Phase loss 11nh	ance, Phase reversal					
		- 1				
<ul> <li>Under Current</li> <li>Prolong starting</li> </ul>	asked Potor					
- Prolong starting	Locked Rotor.  Single Phasing condition- Phase Reversal condition- Phase Unbalance	- 1				
-Single phase pro	CCION-Single Findship server					
condition-Modes	t Operation					
i) M-Power modu	for mobile starters and Earth fault relay as Auxiliary			1		
		- 1		1		
Earth Fault Re	ay3 phase Earth fault, ground fault module					
Range as per	equirement					
SACD NAC	SD 104 (10 Ka)	- 1		1		
		.				
of site bearing	ntrol_relay for including wiring and capsules required lepth of sump 10 meters in consideration: 01 unit complete (not for production	1				
THE COURT						
wells)						
g) Metering Deta	Mounted)					
g) Metering Deta						
g) Metering Deta •Incomers (Pane (a) Multi-Funct	on Meters LCD Display (1 No)	1				
g) Metering Deta •Incomers (Pane (a) Multi-Funct Voltage of ea	on Meters LCD Display (1 No) n phase , Current of each phase	- 1				
g) Metering Deta •Incomers (Pane (a) Multi-Funct Voltage of ea	n phase , Current of each phase		1			
g) Metering Deta •Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A	n phase , Current of each phase ive, Apparent) , 3ø Power factor					
g) Metering Deta •Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A	h phase , Current of each phase ive, Apparent) , 3ø Power factor nergy					
g) Metering Deta Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A Frequency (b) Analog vo	n phase , Current of each phase ive, Apparent) , 3ø Power factor					
g) Metering Deta •Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A Frequency (b) Analog vo •(b) Outgoing	n phase , Current of each phase ive, Apparent) , 3ø Power factor nergy meter S/S operated (1 No) - Rishabh make.					
g) Metering Deta •Incomers (Pane (a) Multi-Funci Voltage of ea 3ø power (A Frequency (b) Analog vo •(b) Outgoing (Analog voltn	h phase , Current of each phase ive, Apparent) , 3ø Power factor nergy meter S/S operated (1 No) - Rishabh make.  eter (0-500) S/S operated (1Nos) .					
g) Metering Deta  Incomers (Pane  (a) Multi-Funct  Voltage of ea  3ø power (A  Frequency  (b) Analog voltage  (halog voltage)  Analog Amm	h phase , Current of each phase ive, Apparent) , 3ø Power factor nergy meter S/S operated (1 No) - Rishabh make.  eter (0-500) S/S operated (1Nos) . ers 0-100 Amp (2Nos) for both starters					
g) Metering Deta Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A Frequency (b) Analog vo (b) Outgoing (Analog voltn Analog Amm	h phase , Current of each phase ive, Apparent) , 3ø Power factor nergy meter S/S operated (1 No) - Rishabh make. eter (0-500) S/S operated (1Nos) . ers 0-100 Amp (2Nos) for both starters with S/S CT operated (Rishabh make )					
g) Metering Deta Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A Frequency (b) Analog volto Analog Amm Each outgoin	h phase , Current of each phase ive, Apparent) , 3ø Power factor nergy meter S/S operated (1 No) - Rishabh make.  eter (0-500) S/S operated (1Nos) . ers 0-100 Amp (2Nos) for both starters with S/S CT operated (Rishabh make )					
g) Metering Deta Incomers (Pane (a) Multi-Funct Voltage of ea 3ø power (A Frequency (b) Analog volt Analog Amm Each outgoins	h phase , Current of each phase ive, Apparent) , 3ø Power factor nergy meter S/S operated (1 No) - Rishabh make.  eter (0-500) S/S operated (1Nos) . ers 0-100 Amp (2Nos) for both starters					

1	45	Providing, installation and testing of Heavy Duty manual type triple spur gear chain pulley block along with monorall geared traveiling trofley 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 fubrication 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 oblity. The chain should be accurately collaborated, tested and have adequate in built factor of the following space of 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:  Reputed make:  Reputed make:  Reputed make:  Reputed filt:  2 ton (P):  No. Of load chain falls:  2 or above:  W.Min. Height of lift:  8	No.	,	44,473.00	88,946.00
	46	Capacity 3 Ton Supply, Installation and testing of motorized chain hoist with hook suspension along travelling trolley of proper specifications having following features The chain hoist shall also have the following characteristics:- Motor. The basic drive of the hoist be provided with 3 phase squired cage totally enclosed induction motor having a high starting torque with class "F" insulation. The make of the motor be NGEF / SEIMNS / GEC / Crompton and conform to IS: 325 (RPM-1500) Brake. The hoist shall have instant action, Fail to safe electromagnetic disc brake mounted on the end of the motor to ensure minimum safety and reliability when the load is held in its position as soon as the supply to the motor is switched off internally or accidentally. The adjustment & maintenance of break shall be quick and simple.  Gears. The hoist shall have precision cut super and helical gears made of alloy steel mounted on bearings and housed in a dust proof gear box. The lubrication of gears 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: Specially designed, perfectly machined wheel providing correct grip of load chain made of malleable cast iron makes the hoist most safe and reliable against any failure.  Lifting Hook: The lifting hook shall be forged with provision for free swiveling.	Job	1	1,61,700.00	1,61,700.00
	cccccccccccccccccccccccccccccccccccccc	wering to ensure maximum safety of operation.  ontrol: The unit shall be controlled by heavy duty air break direction reversing type bidders and lectrically inter – locked for safety. Contactors relay, fuses, low voltage transformer be fitted for ontrol voltage and are to be housed in fabricated / pressed sheet steel box dust proof.  outh button pendent: The contactors shall be operated by a pendent push button station suspended on hoist by a rope / dog chain to prevent any damage to the pendent cable and for easy operation.  est: The hoist supplied is to be tested at 25% overload and the test certificate of the same be ovided at the time of installation. The complete unit as specified above is required to be fitted / sted at site.  Issides the above works the job includes Providing and fitting 3-Core 6 sq. mm,50 m submersible before providing power supply to motor of chain Hoist including P/F protection device of suitable pacity. The main specifications of the chain Hoist are given below:    Providing power supply to motor of chain Hoist are given below:				
47	gant ISMs inclu	rication, providing, fitting of base frame for pumping units, covering of holes, fabrication of try, ladder, DG set covering, HT/Lt transformer Bed with gantry fabricated out of C/ISMB/ISA/Bars/MS Pipe/MS plain-chequired Sheets. Including making of holes in concrete, using metal primer 1 coat and two coats of approved shade. The works is to be executed as per requirement and as per dimentions of Pumping unit and as per directions of site engineer.	Kgs.	5000	132.00	6,60,000.00
48	per s	iding and fitting of 1"x1" MS Mesh (10 no guage) for sides of DG Set and other MS structure as ite requirement by arc welding. Induded painting with one coat of red oxide and two coats of nel paint of approved shade.	Sqm	50	850.00	42,500.00
49	requi	ing on steel structure/pipe with synthetic enamel paint of approved brand and maufacturer of red colour to give an even shade on new work( Two or more coats) including a coat of approved primer but excluding a coat of mordant solution.	Sqm	200	150.00	30,000.00

					10
50	Providing corrugated G.S. Sheet roofing including vertical/ curved surface fixed with polymer coated J or I. Hooks, boits and nuts 8 mm dia for overhead gantry diameter with bitumen and G.I limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto any pitch in horizontal /vertical or curved surface) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	45	1,800 00	81,000 00
5.1	1.25 mm thick with zinc coating not less than 350 gram/m2 Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level 1.2:4 with stone aggregate 20 mm nominal size. For concrete grouting of MS pipe/ foundation /concrete beds for rising-main as per requirement.	Cum	20	6,434.00	1,28,680.00
52	Centering and shuttering including strutting, propping etc and removal of form work for foundation, footing , base	Sqm	20	289.00	5,780.00
3	Earth work in excavation by manual imeans 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 exacavated earth as directed ( All kinds of soil)	Cum	10	277.00	2,770.00
24	Providing and laying of soling stone			670.00	3,395.00
5	Coment plaster in find sand in 1-3 mix finished with a coat of neat cement and curing complete 18	Cum	5	679.00	
	This Colex	Sqm	20	560.00	11,200.00
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	1,205.00	7,230.00
	Supply, installation of 6 kg CO2 type fire extinguisher manufactured as per IS: 15683of 2006 with IS mark and comply with DGMS (Approval). The co2 extinguisher should be suitable for class B & C fire and also for fire involving electrical equipment. The cylinder used for fire extinguisher shall be approved by petroleum and explosive safety organization (PESO) as per gas cylinder rules 2004 and as per IS: 7285 of 2004. The body should be made of seamless steel (manganese) confirming to IS: 7285 with IS mark and should be provided with squeeze grip nozzle and should be filled with co2 confirming to IS: 15222 of 2002 with certificate. The extinguisher shall be provided with manufactures test certificate and hydraulic test certificate by BIS from PESO.	Job	2	6,447.00	12,394.00
The second secon	Froviding 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.  13 Way Terminal Connector 20 Amp.  23 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" (cost of concreting not included in the job) using 04 No anchor bolts of required size not less than 7" in length. The complete lob includes earthing in GI Electrode as per relevant IS Code	Job	4	22,226.00	88,904.00
The state of the s	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.  113 Way Terminal Connector 20 Amp.  213 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 were 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" (cost of concreting not included in the job) using 04 No anchor bolts of required size not less than 7" in length. The complete	Job	4	22,226.00 8,866.00	
The state of the s	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 were 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" (cost of concreting not included in the job) using 04 No anchor bolts of required size not less than 7" in length. The complete to bincludes earthing in GI Electrode as per relevant IS Code  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 lngress  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 LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the LED is properly fitted on the arm of the pole and connected	Job			35,464.00

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1,000 00	62	providing & fitting of lighting points for (machine room in operators room) as per site requirement in 1.5 mm² multistranded single core 1100 volts, pvc insulated copper conductor through pvc conduit pipe by way, switches, socket modules in 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.	100	15	1,600.00	24,000.00
	63	From the fitting of heating points in 2 Smm² multistranded single core 1100 volts, pvc insulated copplex conductor through pvc conduit by way of p / f of 15 Amp switches, 6 pin socket, on modular fitting, as passive requirements. Heating points are to be connected from main control panel. All accessories required is to be provided by the firm	lob	4	1,400.00	5,600.00
	5.4	Providing and fitting of 9" x 9"exhaust fan with complete wiring in 1.5 mm cu wire through conduit and 6.4 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 6.4 modular control complete job.	Job	1	2,500.00	2,500.00
6		Providing, fitting of Distribution Board of reputed make 4 way 5 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 mm² 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	2	5,500.00	11,000.00
56	e p al b st	Of Earthing station of Panel boad, stabilizer, Motors, heating points, lighting points, D.G sets for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as er IS. 3043. The job includes Auguring of bore of required dia/depth for installation of electrode long with backfill compound mixed with soil and all other items required thereof for achieving the est result. The job includes connecting of electric gadgets through GI strip as per relevant randards.  Landards : 65/80 mm dia (As specified), ength : 2000 mm	Job	5	10,462.00	52,310.00
67	Su	sek fill compound: 30 kg  pply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including  poviding / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover. with 2-core 4  m2 Cu (25 m) wiring as per site requirement along with other accessories like SS-Combine (02  (3), 3-pin plugs etc of reputed make for proper fitment and installation of the item.	Job	1	34,053.00	34,053.00
68 5 7 11 11 12 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	The sha Proise All Done All Proise All Prois	Tool Kit for maintenance:  Tool Kit for maintenance shall comprise of the following and all the items as mentioned below it be of:  If the	Job	1	28,840.00	28,840.00

1.100

		a) Providing of good quality convenience and utility items bedding for night stay/shift consisting of: -  i) Mattress with warm cover size 6'x1' (6kg) 02 Mo's  ii) Chill with warm cover size 5'x8' (6kg) 02 Mo's  iii) Pillows with covers - 02 Mo's  iv) Single bed warm blankets with one sided for -02 Mo's  iv) Single bed warm blankets with one sided for -02 Mo's, steel pairella (utensil) 5ftrs 02 Mo's, the filling material for mattress, quilt and pillow shall be of good quality cotton  the filling material for mattress, quilt and pillow shall be of good quality cotton  the filling material for mattress, quilt and pillow shall be of good quality cotton  the position material for mattress to Mo's, steel pairella (utensil) 5ftrs 02 Mo's, the position of 10 Mo's factor of the position of 10 Mo's each of Mo's each, steel glasses 06 Mo's, steel Plates with large spoons and bowls litre capacity with Mog 02 Mo's each, steel glasses 06 Mo's, steel Plates with large spoons and bowls litre capacity with Mog 02 Mo's each, steel glasses 06 Mo's, steel Plates with large spoons and bowls litre capacity with Mog 02 No's each, steel glasses 06 Mo's, steel Plates with large spoons and bowls litre capacity with Mog 02 No's each, steel glasses 06 Mo's, steel Plates with large spoons and bowls litre capacity with Mog 02 No's each, steel glasses 06 Mo's, steel Plates with large spoons and bowls litre capacity of the pob also includes providing of the moc cool 15'x12' along with excel matting of 15'x12' size. The job also includes providing of unbreakable Platic Chair table set consisting of chairs 04 Mo's, extra heavy includes providing of unbreakable Platic Chair table set consisting of chairs 04 Mo's, extra heavy includes providing of unbreakable Platic Chair table set consisting of chairs 04 Mo's, extra heavy includes providing of unbreakable Platic Chair table set consisting of chairs 04 Mo's, extra heavy includes providing of unbreakable Platic Chair table set consisting of chairs 04 Mo's, extra heavy includes providing of unbrea	Job	1	39,619.00	39,619 00
	1	Fabrication of $6^{\circ} \times 6^{\circ}$ 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	Kg	94.75	93.00	8,811.75
7	71 .	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	Sft	36	140.00	5,040.00
		namet paint royiding of solar/electrical lantern chargeable on both solar & electrical 220v supply.	Job	1	1,911.00	1,911.00
7	P	royding of solar/electrical lantern chargeable of both solar be electrically solar formula for the royding of bamboo ladders 18 feet long along with 15 feet long Link rods and HT Glove pair (01 No ach)	dot	1	7,350.00	7,350.00
7.	4 P	roviding of 1 KW heat convector for operators for winter season.	Job	1	1,205.00	1,205.00
75	sp	oviding and fitting of 01 No. angle iron/sheet metal board duly painted showing various secifications of the mechanical and electrical equipments installed at site. The legs are to be outed in cement concrete.	Sft	24	250.00	6,000.00
76	Proceed (20 fitt) proceed (20	pacity =25 KvA  oviding, installation, Testing & commissioning of 415 ±15%V (output), 3 phase—air cooled/water oled—Diesel Generator set Specification of approved make as per latest guide line as per IS 8528 118) and ISO 3046 (2002) for engine and IEC/IS 60034-1 for alternator suitably assembled and ed in a pollution free acoustic enclosure / canopy of required size as per Ministry of Environment stection rule 1986 read with latest amendments. The DG Set is required to be fitted and tested on d at site. The D.G Set shall have the following technical specification. Ides the above works the D.G set shall be provided with 12 V, 150 AH Lead acid battery of uted make fitted inside the D.G set Canopy along with necessary accessories and battery charger equired capacity.  job also includes the cost on account of HSD and skilled operator required for operation of D.G for a period of 10 hours continuously during its testing and commissioning of D.G set at site.	Job	1	6,17,206.00	6,17,206.00
	-	Total advertised/estimated cost:				50,47,439.92
-		Percentage quoted by L1 firm				-2.25%
		Total allotted cost:  Rupees Forty Nine Lakh Thirty Three Thousand Eight Hundred and Sev	venty T	hree Only		49,33,873.00
	Executive Engineer  Jalshakti (PHE) Mechanical Division (North)  Sopore					

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