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/ 2968-75

25-07-2023

Rs 30.659 Lacs

Rs 29.358 Lacs

M/s Mawadat Electricals Patawaw Budgam

GST No: 01FLEPM9317Q1ZM

Cell No: 7006792132

Electrical and mechanical works to be carried at WSS Tirch Handwara under JJM. Subject:

This office e-NIT No.: e-NIT No. 08 of 2023-24, S. No. 03 issued under endorsement No.: PHE/MDNS/DB/1056-61, dated: 24-05-2023 and this office Reference: 1. corrigendum No. PHE/MDNS/DB/1204-06, Dated 30-05-2023.

Authorization awarded by District Development Commissioner, Kupwara through Minutes of Meeting issued vide No. DDCK/Plg/JJM/2744-67, dated: 2.

Adv. Cost:

Allotted Cost:

17-07-2023.

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 Tirch Handwara 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.

leaves Encl.

> Executive Engineer HE Mechanical Division (North) **U**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 of information.

5. Executive Engineer Jal Shakti (PHE) Division 4 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.

for information & 7. Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division 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 Tirch Handwara under JJM.

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 below shall be imposed.

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
 - Iron Removal Plant

or 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.

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.

- 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.

Terms of Payment for Electro-Mechanical Component:

- 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.

- Warranty: The firm shall be bound for satisfactory performance of equipment/ works for 12 months after the 8. 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.
- Trial Run: After Completion of the work the firm will have to make a trial run of the scheme for a period of 01 9. 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.
- 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.
 - 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:
 - 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
- Impose Liquidated damages on account of delay beyond the schedule completion period to the tune of 0.5% of the delayed portion of contract every week but not exceeding 10% value of the contract.

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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.

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.

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.

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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

- 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.

Sectional Drawing of Pumps 1)

General Arrangement Drawings (G.A.D.) /Layout of the equipment fully dimensioned for pumps, 2) motors, starters, shunt capacitors, panels, delivery manifold, cables etc.

Detailed circuit diagrams of LT Panels, starters, shunt capacitors etc. 3)

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.

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 for this purpose at the prevalent electricity tariff in J&K State. Such charges shall be paid by the bidder/firm 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.

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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, labour colony, Site Office etc.

- 32. Any incidental works required thereof for fitment of the pipes / allied equipment/works etc. shall be deemed within the scope of work.
- 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.

Executive Engineer

akti/PHE Mechanical Division (North) Sepore

Annexure "B" Schedule of cost and quantities
to this office Allotment Order No: PHE/MDNS/DB/2968-Fdated:

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> al firm

5.	e of work: Electrical and mechanical works to be carried Item Description	Qty	Units	Rate	Amount
No. 1. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Supply, Installation, Testing & Commissioning of submersible pump as per IS: 8034 PUMP: - Discharge: 3500 GPH Head: 100 Mtrs Type of pump: I Submersible Pump (Vertical) Quality of Water to be handled: clear water. Efficiency- Not less than 50% Speed; 2900 rpm MATERIAL OF CONSTRUCTION: As per IS: 14220:1994 suitable for above parameter MOTOR: - Rating: Suitable for above parameter Method of starting: Star — Delta/DOL (as specified). Frequency: 50Hz ± 3% Voltage: 415 ±10% Speed 2900 rpm (syn) Class of insulation: Suitable for above rating. The motor shall be made of corrosion resisting materials to exist corrosion under normal conditions and the motor shall	Qty	Units	Rate	Amount
h Ti nii Su so pa 38 rir Th ari fall Th MS sarrenoro The oin nuts Iso	ave a name plate giving complete specifications he job includes providing and fitting of suitable size/Dia GI ipple for pumping equipment as per site requirement. ubmersible motor should be water filled water lubricated quirrel cage type having capacity for above pumping arameters and working on 3 phase AC supply ranging from 80 to 415 volts, 50Hz. The motor should be sealed by radial angs to avoid mixing of well water with motor filled water. The job includes providing and fitting of interlocking rangement against any failure of coupling. It must be bricated out of MS strips of suitable size and length. The job includes providing and fitting of appropriate size in piple 2 feet long threaded on one end and welded to me size MS flange of thickness (as per Table-17) at other differ column pipe as per site requirement. The leaded portion should be as per size of pumping out let for the per fixing. It is job includes providing and fitting of R. I. cloth ats/rubber washers with the specific pumping unit in the well then proper ing and commissioning of pumping unit on full load at	2.00	Job	96921.00	193842.00
Fla clu	rication, providing, fitting & lowering of 65 mm Dia. Class inged MS coated column pipes conforming to IS: 1239 uding the providing and fitting of MS flanges as per table and welding of flanges in two layers to make flanged joint proof and strong.	50	Meter	1400	70000.00
br m we	ication, providing and fitting of split type MS clamps10 thick, Length as per sump opening and 3 inch wide for ring and holding of pumping unit fitted. The job des the cost of required size nuts and bolts.	2.00	Job	1801.00	3602.00
ovi	ding and fitting of 10 Sq.mm 3-Core flat submersible er cable conforming to IS: 694 (Part 1st) – 1964 & IS:	150.00	Meter	454.00	68100.0

2.

4.

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1	694 (Part 2nd) - 1964 for Submersible Pumping Unit and				
	other electrical equipment. The cable connections terminal				
1	shall be fitted with copper thimbles of required size. (for	2		4	
	pumping units and interconnections)				
5.	providing, installation, testing of power wiring for working				
	voltage up to 1100 Volts, 16 mm sq PVC insulated stranded			and district	
	annealed copper conductor from changeover switch to			a linguistic de la constant de la co	
	voltage stabilizer, to bus-bars of Panel by way of p/f of PVC	50.00		240.00	14000 00
	high purpose ASTM pipes of nominal dia, PVC couplers, Steel	60.00	Meter	248.00	14880.00
	clamps, wooden battens, nuts bolts, PVC flexible conduit,			and the state of t	
	included is termination of ends with suitable Cu terminals				
	dully crimped and taped.				
6.	Fabrication, Providing and fitting of Modular motor control		and the second s		
	panel of appropriate size fabricated out of 14 SWG sheet				
	having required openings/vents and protection Class: IP-55				
	& fitted with accessories as under:				
	Bus bar Chamber:				
	The bus bar chamber shall be fitted at the top of the panel				
	horizontally/vertically throughout the length. There shall be				
	3 Nos. of phases bus bar and 1 No neutral bus bar and 1 No				
	earthing bus bar. The bus bars shall be air insulated and				
	made-up of high conductivity COPPER with current density				
	of suitable rating for 100 Ampere. All panel compartments				
	shall be provided with suitable cable alley and vertical bus				
	bar alley. Suitable segregation shall be provided in between				
	bus bar chamber and adjoining compartments. The bus bar				
	shall be PVC sleeved with colour strips of red, yellow, blue				
	and black and the same be arranged in accordance with IS-				
	375 specifications. Electrical clearances shall be maintained				
	between phases, neutral and body as per standards.				
	Main Circuit Breaker (Incomer MCCB):				
	Qty. = 02 Nos				
	No. of poles = 4 Nos		-		
	Current Rating = 100-125 Amp.				
	Rated operational voltage = 415 V + 15 %				
	Rated operational voltage = 413 V + 13 %			-	
	Ambient temperature = 40° C	1.00	Job	172000.00	172000.00
	Ultimate S.C Breaking Cap at (415V AC, 50 Hz) = 50KA				3 m
	Type of release = Thermal-Magnetic				
	, ,				
	Change over Switch:				
	Qty. = 01 No.				
	Rating = 100Amp				
	Type = Front operated, on load, 4 pole, $400 \pm 15\%V$,				
	50 ± 3%Hz.				
	Motor Back-up Protection MCCB:				
	Qty = 2 Nos.			-	
	Poles = 3 Nos				
	Rated Current -63A				<u> </u>
V	Rated operational voltage = 415 V ±15 %				
	Rated frequency = 50 ± 3% Hz				
M	Ambient temperature = 40°C				
1	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA				
an	Starters:-		-		
1.4	Fully automatic star delta starters.			i de la companya de l	
	Power Specs = $3 \oplus 415 \pm 15 \vee 50 \pm 3 $ Hz.				
	Relay range= 13-22 A				
	Coil Voltage = 380 v	-			
			7		
	Protection = single phasing, phase Reversal, phase unbalance				
	Qty. = 2 No's				

	Auxiliary MCCB for Heating/Lighting: Circuit Breaker = MCCB (Outgoing)	Annua (1977)				rect
	Qtv. = 1 No.					A Company of the Comp
	No. of poles = 4	-				
1	Current Rating = 63 Amp.					
1	Rated operational voltage ≈ 415 V ± 15		-			
1	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA			*		8
	Motor Protection Relay:					pore
1	Digital Motor Protection Relay with LCD Display for 3-phase					
1	supply with following protections suitable for the Modular					
	Control Panel:- Protections = Thermal Overload with pre-alarm, Short					
	Circuit, Phase Loss, Unbalance, Phase reversal, Under					2
	Current, Prolong starting, Locked Rotor, Earth fault and over					:s
	current.					:s
	Qty. = 02 No's					
	Preferably make of constituent parts:					
	ABB/Schneider/L&T/C&S					
7	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	14 MC 2 10 MC 17 M			- 12 P	7
	KVA voltage stabilizer as per specifications below:					d u
	Capacity: 50 KVA, 3-phase					is c
	Type of voltage controller: Manually operated copper wound,					17
	3-phase, AC power supply multi- step.					Kup
	Type of Regulator: Double plate type with electrolytic copper					, (
	contacts.					
	Input voltage: 150 volts. (3 phase)					
	Output voltage: 415 ±10% volts.					
	Frequency: 50 ±3 C/S.					
	Windings: Electrolytic grade copper of adequate section,					rio
	vacuums impregnated and Oven dried.					ır
	Insulation: Fibre glass insulations of tested parameters.					
	Cooling: Naturally Oil cooled					In
	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	1.00	Job	107000.00	107000.00	
	coated with radiators of adequate thickness.					
	Core laminates: High grade, low eddy loss, grain oriented	50				
	silicon steel or CRG core.	1				
	Load: Three phase induction motor load.					
	The voltage stabilizer shall be capable to withstand load 10%				,	
	above maximum load for 02 hour operation. The voltage		Ta.			
	stabilizer shall have T-oil level indicator gauge preferably					
	glass type tube or otherwise visible to naked eye. The top of		-			
	the container shall have a display panel for housing 02		=			. 6
.	numbers voltmeters (0-500V) along with 4-way selector					
1	switch and set of neon indicators for incoming and outgoing			1 2		
1						
/	phases (06 No's).Insulating media (T. Oil) of 11 KVA grade					
1	with 62 dielectric value is to be provided and filled up to top		15			
n	level. The T-Oil of above grade should be provided in					
11.	separate barrels and filled at site up to top level. The voltage					
in	Stabilizer shall be accepted with manufacturers duly	7			3	-
Y	stamped test certificate and shall have name plate with					
	specifications, name of manufacturer and name of Water					2
-	Supply Scheme	2			The park of the constraint	
0		-				-
	Providing and Fitting of 3.5-Core, 70 Sq. mm XLPE, and 11KV	1		550.00	40000.00	
- 1	grade Armoured Aluminum Cable of various sizes		Meter	r 668.00	40080.00	
	conforming to IS: 7098 part 1st as service line from the HT					

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	1	transformer to control panel including necessary thimblings, crimping, taping etc. to be fitted from changeover panel to modular panel. The job also includes P/F of Aluminum thimbles of various sizes as per site requirement including					-		ı		
	9.	providing and fitting of 80 mm Dia G.I flanged Rising Main at site. The Pipe shall be hot dip Galvanized, class medium confirming to IS 1239. The job includes providing and fitting of M.S. Flanges conforming to BIS 6392/1997. Table 17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrode of reputed make. Flanges (as per IS 6392/1997. Table: 17). Thickness shall conform to IS 6392. Part 1st Table-17. The flange welding shall be carried out in double layers using Advani/ Esab/L&T-SS Bond make electrodes to form strong welding joint. The electrodes shall be having diameter not less than 4mm, Nuts and Bolts, Rubber Insertion Gaskets of reputed makes to be used between flanged joints.	550.00	Meter	1251	.00 6880		50.00			
данам оң байартында жереке бұлымасындерізі береке теріндері байда қартада даларында қартада қартада қартада қа	10.	Earth work excavation for rising main and allied works by manual means in trenches for foundation, drains, pipes, cables (not exceeding 1.5 m in width) and for shafts, wells, cesspits, gravel pack cum holding mechanism etc. and the like not exceeding 10 Sq m on plan, including dressing of sides and reaming of bottom lift up to 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed. Under road way a minimum clear cover of 1.5m is to be provided, same can be modified to suit local conditions. The job includes back filling and cleaning of road.	140	Cum	26	3.00	36	820.00			
	11.	the state of the s	126	Cum	2:	19.00	2	7594.00			
the difference of the second continue on each second part of the continue of the second second second continues on the second se	12.	Fabrication, providing and fitting of washout Tee with arm length as per site requirement but not less than 1.5'x1.5'x1.5'. The Tee shall be fabricated out of G.I C-class pipe with M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16) fastened with weld joints on three ends. Nominal Dia -80 mm	1 00	Job	41	050.00		4050.00			
	13.	Fabrication of gravel Hooper for proper feeding of gravels to the bore welland platform to bear the load of pumping unit, column pipes etc by way of providing and fitting of Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. The job involves following steel details: i. In stringers, treads, landings etc of stair cases including use of chequered plate wherever required, all complete	3 400 5 1) Kg	3.	125		125		50000.00	0
A A A	14.	Fabrication, Providing and fitting of Y- junction / Manifold having length of each arm as per site requirement but no less than 2'x2'x2' to be fabricated out of hot dip galvanize G.I, C-Class pipe as per site requirement. The job als includes Providing and welding of M.S flanges to the ends ceach arm. The thickness of Flange shall conform to IS 639 Part 1st Table -17. The flange welding shall be carried out indouble layers using Advani/ Esab/L&T- SS Bond make electrodes to form strong welding joint by way of DC at welding. The job further includes Providing and Fitting on the providing and bolts,) Rubber Insertion Gaskets to be use	of 1.0	00 J	ob	7275.00		7275.0	00		

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1	g_and Sints		Contract of the Contract of th	Landa Cont	N. M. P. Styleston Edgeston		androined and the contraction of	a
M	between flanged joints. Nominal Dia -80 mm		alkergen prompt					J
15. 1	raprication, Providing and fitting of Tail piece as per site requirement by Cutting of hot dip galvanized G.I C-Class pipe across the section by using pipe cutter/ gas cutter. The job also includes Providing and welding of M.S flanges to the				and the second s	green van de State fan It State fan		7
t 6 0 0 0 1 t	two ends of pipe. The Thickness of flange shall conform to IS	6.00	Job		1300.00	780	0.00)re
	Fabrication, Providing and fitting of 90-120 degree bend /elbow with flanges, fabricated out of Class C Gl pipe (5.4mm thickness) of length as per site requirement and flanged on both ends. The flanges shall be M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16) and welded on both sides. The job includes nuts, bolts, gaskets etc as per site requirement. Nominal Dia -80 mm	8.00			2797.00	22	376.00	Special Specia
17.	Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) 80 mm as per IS 5312. The body shall be of ductile cast iron with fully encapsulated vulcanized EPDM rubber (Approved for drinking water). The valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions. It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. The job includes providing and fitting of 02 nos. M.S flanges perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with Rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job. Preferably makes: VAG/AVK/SIGMA FLOW			lob	17489.0		34978.00	
18.	I Coving of Duestila Iron double flanged non-	de n s Boh		Job	154	97.00	30994.00	
19.	Fabrication of gantry mechanism, bed for staff and bar frame and allied works by way of providing Structural stee in built up sections, trusses and framed work, including	el 20	00.00	K	S.	120	240000.0	00

1	cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete Welded The job also includes painting of complete Structure in one coat of red oxide and 02 coats of enamel metal paint. The quantity of the steel members like ISMB 200/150/100, MS chequered sheet, ISMC 100, ISMC 75, ISA 50X 50 X5mm /40X 40 X 6mm, Square bars, railing pipe, MS pipes, angles, tubes, shall be used as per directions of site engineer, same may vary as per site requirement as it is conditional to civil structures being constructed.					onderge de
20.	The above steel structure shall be covered with 26 SWG CGI colour coated laminated sheets with desired jointing arrangement complete, including Chaja, ridge and Morkh as per requirement fixed with	60	Sqm	848	50880.00	
21.	providing, installation and testing of manual type triple spur gear chain pulley block along with monorail geared travelling trolley having following features Gears:- The hoist shall have precision machine case Hardened alloy steel gear mounted on bearings and housed in a dust proof gear box. The lubrication of gears should be of high viscosity and temperature for longer life of gears. Load Chain:- The load chain be made of high tensile alloy steel having wear resistance and greatest mobility. The chain should be accurately collaborated, tested and have adequate in built factor of safety for safer operation. Load chain wheel :- the load chain well should be double ball bearing supported and Specially designed, perfectly machined wheel providing correct grip of load chain to makes the hoist most safe and reliable against any failure. The main specifications of C.P Block are given below i. Make = Indeff / Pull lift ii. Capacity = 2 ton lii. No. Of load chain falls = 2 iii. Min. Height of lift = 6 M	1.00	Job	44473.00	44473.00	under office upwara dated: :al and firm on untities
	Supply, installation, Testing & commissioning of 950VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Automotive inverter Battery with trolley and cover. with 2-core 4 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. Make: Exide/Luminious/Amaron	1.00	Job	34053.00	0 34053.0	
23.	Illumination of Premises: Providing and erection of 9 Mtr long Hot Dip Galvanized octagonal pole (single Section) with bottom 150mm, top 75mm wide, thickness 3mm with 70 Microns Zinc coating having inside arrangement for providing of power connection along with following items. 1) 3 Way Terminal Connector 20 Amp. 2) 3 No MCB 8 Amp. The job includes fabrication, providing and fitting of three arm GI structure at the top having 120° angle between arms and each arm having 15° inclination with respect to horizontal plane. Each arm should be of 2′ length and size and shape appropriate as per requirement of the luminary. The job also includes providing and fitting of required length of flexible multi strand 2 mm copper wire from each terminal connector to each holding arm. The pole is mounted on 1:2:4 Cement concreting of size not less than 2′x2′x6″ using 04 No anchor bolts of required size not less		O Joh	b 22226	5.00 22226	our favor

	than 7" in length. The complete job includes earthing in GI flectrode as per relevant IS Code	droom of value public	CLASS TO REAL TRANSPORT	and the second seco	
1/2	Providing, installation, testing and commissioning of area lighting 120 Watt LED (Street Light Type) on top of octagonal pole having following specifications: input: 90-210 Volts Power Factor: >0.8 Colour Temperature: 4K - 6.5K Beam Angle: 120" - 170" Lumens: >12000 Operating Temperature: -20"C to 60"C The LED is pressure die cast aluminium housing with power coated finish and having Ingress Protection up to IP-68. The LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the high mast pole	3.00	Job	9486.00	28458.00
25.	the send installation of hundring Develop DD 22 A MCD	1.00	Job	2227.00	2227.00
26.	The second of 2 Care 10 Care was VIDE and 1 1VV	50.00	Meter	162.00	8100.00
	a) Providing of good quality bedding for night stay/Shift consisting of: - 1) Mattress with warm cover of size 6'x3' (6Kg) white cotton - 02 No's ii) Quilt with warm cover of size 5'x8' (6Kg)- 02 No's iii) Pillows with covers - 02 No's iii) Pillows with covers - 02 No's iv) Single bed warm blankets with one sided Fur- 02 No's The filling material for mattress, quilt and pillow shall be of good quality white cotton b) The job also includes providing of pressure cooker 5ltr (02 Nos), Steel patella (utensil) 5ltrs (02 Nos), cooking heater (01 No.), room heater (01 No), steel buckets 10 liter capacity (01 No.), room heater (01 No), steel buckets 10 liter capacity with Mug (02 Nos) each, steel glasses (06 Nos), steel Plates with large spoons and bowls (03 Nos) each, Cup and Saucer set (01 No. Set) and, 5kg Gas cylinder with burner/ stove. The job also includes providing of thermo cool 15'x12' along with excel matting of 15'x12' size. The job also includes providing of unbreakable Plastic Chair table set consisting of chairs 04 No's, heavy Table 01 No. The job also includes providing of good quality safety Door locks (03 No's).	1.00	Job	39619.00	39619.00
28.	Providing, laying & fixing with adhesive/bonding material of insulation rubber mats on the floor of the pump house, covering area around electro- mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. Make: Jyoti / Dunlop	6.00	Meter	1205	7230.00
29.	Providing of solar/ electrical lantern chargeable on both electrical and solar 220 V supply.	1.00	Job	1911.00	1911.00

b.	providing of bamboo ladder-18 feet long along with 15 feet	1.00	Job	7350.00	7350.00					
1	long link rod and HT glove pair (01 No each) providing of 01 KW heat convector for staff for winter			Apartamental descriptions of the second seco	regionale international distribution (the simple transportations), that improvement of the					
/31.	season	1.00	Job	1205.00	1205.00					
32.	providing and fitting of 19 mm thick multilayered ply sheet of size 6 x 3 feet , 2 no's including cutting , fixing all			-						
	complete including painting of the play sheet by one coat of	36.00	Sft	154.00	5544.00					
	primer and two coats of enamel paint									
33.	Supply , installation , commissioning and creation of pole	er til normalisisk militarisk popularisk statisk for det	nykopki opine piazako koko sti piertusi Afrika.	nging mila action constitution for the date of convening distribution of contra	agente construir de la construir de codes des centres de la construir de codes de la construir de la construir					
33.	mounted, outdoor type 63 KVA capacity Level II Electric Sub		i,		a .					
	Station as per the amendment No. 4 March 2021 to IS: 1180									
	(Part 1) 2014 (Fourth Revision).									
	Type: HT/LT Transformer Type of cooling: ONAN. Operating conditions:									
	Input =11000 volts									
	Output =433 volts AC supply in 3- phase. Terminals:		,							
	Input=3 No. HT bush rods with insulators, washer, nuts etc.									
	Output=4 No. LT bush rods switch insulators, washers, nuts									
	etc.		7							
	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	1.00 Job	1 00	1 00	1 00 Joh	1.00 Joh 1	loh	00 Joh	171963.00	171963.00
	properly wound. The HT transformer is completely filled		, 100	1.00	1/1905.00	171303.00				
	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				1					
	certified company as per relevant standards and a test		-		_ 1					
	certificate shall be provided before installation. The									
	transformer shall also be provided with breather fill with				7					
	silica jel <mark>l crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The</mark>									
6	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.									
34.		260.00	O Kg.	123.00	31980.00					
	including clamps	J	1,8,							
	(for transformer bed, taping point, brackets of poles etc)									
35.	Supply, Installation, Testing and commissioning of Polymeric Gang operated Air break switch, outdoor type, triple pole,	-								
	suitable for vertical installation, single break provided with									
	locking arrangement at both ON and OFF position consisting									
	of HT post double insulator, copper or copper alloy high	2.00	lah	11730	00 23460.00					
V	pressure heavy contact assembly, rod with bearings	, 2.00) Job	11730	.00 25,00.00					
XX.	operating handle and 2 length of 32mm dia. Gl pipe	2								
Via	conforming to IS 1818 1961, 06 No. of insulators, rated									
Mary	voltage 11KV 200A complete as per IS specs(01 no. a									
FM	existing tapping point and another at existing substation).									
36	Try			4000	4002.00					
	polymer fuses Set Horn Gap 3-phase 200 A suitable fo	r 1.00	Se Se	t 4983	.00 4983.00					
-	vertical installation.									
3	 Supply, installation, Fixing, testing and commissioning Dro Out Fuse Set Current Rating-100 Amp 	p 1.0	0 se	t 6000	.00 6000.00					
	City are set criterit varing-100 Amb	_	26	0000	0000.00					

	Supply, installation, Fixing, testing and commissioning Link		ween made from Autobidge 2019		Mark Williams	and the same of th		
k	Set with Voltage Level- 11KV, Frame- Galvanized channel							
1	hase	2.00						
1	Current Rating-100 Amp	2.00	Set	7000.00	14000	0.00		
1	Size- Standard							
1	Supply, Installation, Testing and commissioning of Gapless	-				4 11/2		
39.	Surge arrestor station class, 10KA, 9KV, LA With polymer				The state of the s			
	housing,	1.00	Set	7754.00	775	1.00		
	Station Type.		Set	7734.00	775	4.00		
40.	Supply and fitting of 11 KV polymeric composite pin							
	insulator 12 KV, 5KN, Lighting impulse 75KV Positive, and 80	48.00	No.	300.00	1440	00.00		
	KV Negative, creepage distance 320 mm							
41.	Supply, installation, erection of 9 Mtrs long H.T pole of			TO THE STREET OF THE STREET, S		-		
	specifications ST-410 (sp-33). The job further includes							
	drilling of holes for installation of various accessories	16.00	Job	20686.00	3309	976.00		
	wherever required the job further includes G.I wire earthing.							
	of pole as per REC standard.			130.00 153.00 136.00 4922.00 306.00 510.00 53.00				
42.	P/F of Galvanized nuts, bolts of various sizes as per site				-			
,	requirement for fitment of electric substation, poles etc.	60.00	Kg.	130.00	78	00.00		
43.	P/F Danger Plate with clamps	16.00		4== ==	-	10.00		
45.		16.00	Job	153.00	24	48.00		
44.	Providing and fixing G.I Barbed wire as anti-climbing devices	8.0	Kg.	136.00	10	00.88		
			1,8,	155.55	-			
45.	Providing and fitting of Galvanized stay set with 50 X 8 mm							
	Stay Clamp , Guy insulator (2no.), Anchor plate	5.00	5.00	5.00	5.00			
	(200X200X6mm), nuts and bolts, 2 NO- turn buckle, 1.8 m		Set	4922.00	24	610.00		
	long , 16 mm diameter solid G.I stay rod & 7/3.15 mm dia.							
	G.I stranded wire complete.							
46.	Painting of poles by Red oxide	8	Liter	306.00	2	448.00		
47.	Painting of poles Aluminum paint	8	Liter	510.00	4	080.08		
48.	P/L of ACSR conductor 0.05 as per relevant IS code	1500	Meter	53.00	7	9500.00		
49.	Providing and fitting of PG clamps.	32.00	No.	350.00	1	1200.00		
			-					
50.		1.00	Job	29000.0	00 2	29000.00		
	Prodigy Meter with all allied Accessories and fixtures.	-	-					
51.					1			
	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	4.00	Job	10462	.00	41848.00		
	connecting of electric gadgets through GI strip as per							
	relevant standards.							
	Safe earthing electrode size : 80 mm Dia							
	Length: 2000 mm							
0	Back fill compound : 30 kg	_						
52	, , , , , , , , , , , , , , , , , , , ,	1 .						
1	excavator) in trenches for foundations, drains, pipes, cable	1						
X	etc. (not exceeding 1.5 m in width) and for shafts, well							
h	cesspits and the like not exceeding 10 Sqm on plan	n,						
194	including dressing of sides and ramming of bottoms lift upt	0 20.0	0 Cur	n 262	.70	5254.00		
X1	1.5 m, including getting out excavated earth and disposal	of						
1 3	surplus excavated earth as directed, within a lead of	in						
1	metres:-							
	All kinds of soil	*** *** ***						
5	3. Providing and laying of soling stone	2.0	0 0	740	. 00	2220.0		
5	4. Providing and laying in position cement concrete of specific	3.0	0 Cui	11 /40	0.00	2220.0		
T. br	grade including curing but excluding the cost of centering	100	00 Cui	700	0.00	70000		
	and shattering. All works up to plinth level with 1:2:4 mix	11	tu	700	0.00	70000.0		
	ap to pinith level with 1:2:4 mix	(1						

cement, 2cores sand, 4 graded stone aggregate 20mm nominal size).						
Centring and shattering including strutting, propping etc. and removal of from work for foundation, footings, base for columns	0 Sqm	286.35	5727.00			
Estimated / advertised amount:	,		2965456.00			
Percentage quoted by L1 firm {-1%}:		- 建油	29654.56			
Total allotted amount: (Rupees Twenty Nine Lakh Thirty Five Thousand Fight Hundred and One Only)						

Executive Engineer

Jal Spakti (PHE) Mechanical Division (North)

Sopore