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/ 2976-82
Dated: 25-07-2023 Rs 59.474 Lacs M/s Al-Mustafa Infrastructure and Builders Pvt. Ltd. Adv. Cost: Rs 58.05 Lacs Allotted Cost: Patawaw Budgam GST No: 01AAXCA8640C1ZR Cell No: 7006952234 Electrical and mechanical works to be carried at WSS Gamindar Chan Mohalla Hodderpora Subject: Nagri under JJM. This office e-NIT No.: e-NIT No. 08 of 2025-24-5. No. 01 issued under Reference: endorsement No.: PHE/MDNS/DB/1056-61, dated: 24-05-2023 and this office corrigendum No. PHE/MDNS/DB/1204-06, Dated 30-05-2023.

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

Encl. \_\_\_leaves

Annexure B: Schedule of cost and quantities.

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Copy to the:

1. Chief Engineer Jal Shakti (PHE) Department Kashmir, Srinagar for favour of information.
2. District Development Commissioner www., 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.

for favour of information. 5. Executive Engineer Jal Shakti (PHE) Division 🕇

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 5 necessary action.

8. File concerned.

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

Name of work:

Electrical and mechanical works to be carried at WSS Gamindar Chan Mohalla Hodderpora Nagri 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

- 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.

4. **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

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take appropriate insurance policy in advance for covering the transit of the goods, charges for which shall be borne by the tenderer and shall be included in his quoted rates. The department shall pay no extra charges

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
  - 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.
- 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.
  - 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

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 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.

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

- 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
- 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. 4)

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

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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.

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 Mechanical Division (North)

Annexure "B" Schedule of cost and quantities
to this office Allotment Order No: PHE/MDNS/DB/ 2976-32dated: > 107 1073

nechanical works to be carried at WSS Gamindar Chan Mohalla Hodderpora

	e of work: Electrical and mechanical works to be carried at Nagri under JJM	Qty	Units	Rate	Amount
S.	Item Description	Qiy		In Rs	In Rs
No. 1.	Supply, installation, testing and commissioning of Open Well Pumping Units as per IS: 14220:1994  PUMP: - Discharge: 7000 GPH  Head: 80 Mtrs  Type of pump: Open well Submersible Pump (Vertical)  Quality of Water to be handled: clear water.  Efficiency- Not less than 50%  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%  Class of insulation: Suitable for above rating.  The motor shall be made of corrosion resisting materials to resist corrosion under normal conditions and the motor shall have a name plate giving complete specifications. Job includes providing and fitting of pressure gauge at the pump delivery point.  The job includes providing and fitting of suitable size/Dia GI nipple for pumping equipment as per site requirement. All allied fittings to install the pumping equipment at the dug well shall be part of the	2.00	Job	110000.00	220000.00
2.	Fabrication, providing and fitting of split type MS clamps10 mm thick, Length as per sump opening and 3 inch wide for lowering and holding of pumping unit fitted. The job includes the cost of required size nuts and bolts.	2.00	Job	1801.00	3602.00
3.	Providing and fitting of 16 Sq.mm 3-Core flat submersible copper cable conforming to IS: 694 (Part 1st) – 1964 & IS: 694 (Part 2nd) - 1964 for Submersible Pumping Unit and other electrical equipment. The cable connections terminal shall be fitted with copper thimbles of required size. (for pumping units and interconnections)	130.00	Meter	680.00	88400.00
4.	Providing, installation, testing of power wiring for working voltage up to 1100 Volts, 25 mm sq PVC insulated stranded annealed copper conductor from changeover switch to voltage stabilizer, to bus-bars of Panel by way of p/f of PVC high purpose ASTM pipes of nominal dia, PVC couplers, Steel clamps, wooden battens, nuts bolts, PVC flexible conduit, included is termination of ends with suitable Cu terminals dully crimped and taped.	60.00	Meter	394.00	23640.00
do	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:  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	1.00	Job	190000.00	190000.00

bar. The bus bars shall be air insulated and made-up of high

			and the same of th		and the second s
	conductivity COPPER with current density of suitable rating for 160			Section 1	Programme and Articles
	Ampere. All panel compartments shall be provided with suitable	OF COLUMN	<b>Q</b>	ACTION AND AND AND AND AND AND AND AND AND AN	
	cable alley and vertical bus bar alley. Suitable segregation shall be	and of the same	1		Autor
A	provided in between bus bar chamber and adjoining	4	1	and the second	
1	compartments. The bus bar shall be PVC sleeved with colour strips		C and the second	Mercal (III)	
A	compartments. The bus bal shall be rive seeved with established in	100			
7	of red, yellow, blue and black and the same be arranged in	-		and the state of t	vive and the second
	accordance with IS-375 specifications. Electrical clearances shall be				
	maintained between phases, neutral and body as per standards.	a description	44		and the second
	Main Circuit Breaker (Incomer MCCB):		The state of the s		
	Qty. = 02 Nos		Sale estates as		
	No. of poles = 4 Nos		and the second		į.
	Current Rating = 160 Amp.			A.	about the state of
	Rated operational voltage = 415 V + 15 %		d Name of the last	recipients units	
	Rated frequency = 50+/-3%Hz	1		The state of the s	
	Ambient temperature = 40° C			A participants	
	Ultimate S.C Breaking Cap at (415V AC, 50 Hz) = 50KA			And State	
	Type of release = Thermal-Magnetic	1 A A A A A A A A A A A A A A A A A A A			ALL COLORS
	Change over Switch:				
	Qty. = 01 No.		reality of the state of the sta		
	Rating = 100Amp	Appeara of the continue	A COLUMN		And Andrews
	Type = Front operated, on load, 4 pole, 400 ±15%V, 50 ± 3%Hz.	-	To the state of		agrico de distribuir de
	Motor Back-up Protection MCCB:	A. C.			
	Qty = 2 Nos.		and the same of th	Sport Charles	
	Poles = 3 Nos			PRESENT OF THE	appa in particular and the second
	Rated Current -63A				
	Rated operational voltage = 415 V ±15 %		-		
	Rated frequency = 50 ± 3% Hz	tip ye could	A DOUBLE OF THE PARTY OF THE PA		
	Ambient temperature = 40°C				
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA		Children of the Children	vi.	
	Starters:-		Live To de servicio	puntan dan	
	Fully automatic star delta starters.		-	and the second s	
	Power Specs = $3  \Phi$ , $415 \pm 15\%  \text{V}$ , $50 \pm 3  \%  \text{Hz}$ .				
	Relay range= 20-32 A		Ç.		
	Coil Voltage = 380 v				a parametra
- 1	Protection = single phasing, phase Reversal, phase unbalance	A CHARLES	4000		The state of the s
	Qty. = 2 No's		Arrisis and Arrisi		
1	Auxiliary MCCB for Heating/Lighting:			QQC was	
	Circuit Breaker = MCCB (Outgoing)				L
-		To the state of th	saunt formo		ab u chire
	Qty. = 1 No.		Act of the last	egy egy de	
-	No. of poles = 4		2	and in contrast of	
	Current Rating = 32 Amp.				
	Rated operational voltage = 415 V <u>+</u> 15 %		100		
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA				and the second
	Motor Protection Relay:			A CALLED TO SERVICE STATE OF THE SERVICE STATE STATE OF THE SERVICE STATE OF THE SERVICE STATE STATE STATE STATE O	and the second of
	Digital Motor Protection Relay with LCD Display for 3-phase supply				Gallando de
1	with following protections suitable for the Modular Control Panel:-		-		
1	Protections = Thermal Overload with pre-alarm, Short Circuit,				
- 1				gg, ghaas	
1	Phase Loss, Unbalance, Phase reversal, Under Current, Prolong			public specific	
ı	tarting, Locked Rotor , Earth fault and over current.				
	Qty. = 02 Nos.				
F	Providing, fitting, testing and commissioning of 50 KVA voltage			- Approximation	
S	tabilizer as per specifications below:			de australia de la composition della composition	
1	apacity: 50 KVA, 3-phase				
1	ype of voltage controller: Manually operated copper wound, 3-				
. 1	••	1.00	Job	107401.00	107401.00
1	hase, AC power supply multi- step.		and the second second		1
1	ype of Regulator: Double plate type with electrolytic copper				
1	ontacts.				and the second s
In	put voltage: 150 volts. (3 phase)	A STATE OF THE STA			
			The second secon		The second second

	output voltage: 415 ±10% volts.					-
	Frequency: 50 ±3 C/S.				1	
/	Windings: Electrolytic grade copper of adequate section, vacuums					Very
/	impregnated and Oven dried.				1	1
1	Insulation: Fibre glass insulations of tested parameters.				The Control	
1	Cooling: Naturally Oil cooled				1	
	Temp. Rise (Max): 30°C above ambient				80 H	krine
	Mounting: On Uni-directional wheels.				· Comment	
	Correction rate: 30 volts per step				- Gallerin	
	Wave form distortion: virtually nil					0.00
	Duty cycle: 100% continuous.					(h)
	Enclosure: MS sheet enclosure in pressed CGR Sheet powder					
	coated with radiators of adequate thickness.					
	Core laminates: High grade, low eddy loss, grain oriented silicon					0.0
	steel or CRG core.					100
	Load: Three phase induction motor load.					CS
	The voltage stabilizer shall be capable to withstand load 10% above					3/
	maximum load for 02 hour operation. The voltage stabilizer shall					-
	have T-oil level indicator gauge preferably glass type tube or					
	otherwise visible to naked eye. The top of the container shall have					0
	a display panel for housing 02 numbers voltmeters (0-500V) along					7
	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					State of the last
	grade with 62 dielectric value is to be provided and filled up to top					1
	level. The T-Oil of above grade should be provided in separate		1			•
	barrels and filled at site up to top level. The voltage Stabilizer shall			1		
	be accepted with manufacturers duly stamped test certificate and					
	shall have name plate with specifications, name of manufacturer					
	and name of Water Supply Scheme					
7.	Providing and Fitting of 3.5-Core, 70 Sq. mm XLPE, and 11KV grade					
	Armoured Aluminum Cable of various sizes conforming to IS: 7098					
	part 1st as service line from the HT transformer to control panel					
	including necessary thimblings, crimping, taping etc. to be fitted	60.00	Meter	668.00	40080.00	
	from changeover panel to modular panel. The job also includes P/F					
	of Aluminum thimbles of various sizes as per site requirement			1		1
	including crimping and taping.					
8.	Providing and fitting of 100mm Dia G.I flanged Rising Main at site.				,	1
0.	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					
	conforming to Bis 6592/1997 Table 17 (Nating 1 110). The hanges					
-	shall be double welded both from inside and outside of the pipe	1500.00	Matar	1907.00	2045500.00	
	using standard electrode of reputed make. Flanges (as per IS	1500.00	) Meter	1897.00	2845500.00	
	6392/1997 Table: 17) Thickness shall conform to IS 6392 Part 1st					
4	Table-17. The flange welding shall be carried out in double layers					1
	to form strong welding joint. The electrodes shall be having					
yel e	diameter not less than 4mm, Nuts and Bolts, Rubber Insertion					
	Gaskets of reputed makes to be used between flanged joints.		,			
0	Earth work excavation for rising main and allied works by	,				
9.			-			
	mechanical means in trenches for foundation, drains, pipes, cables					
	(not exceeding 1.5 m in width) and for shafts, wells, cesspits, grave					
n	pack cum holding mechanism etc. and the like not exceeding 10 Sc	1				
m	m on plan, including dressing of sides and reaming of bottom lift	t 400	C	262.00	105200.00	n
V	up to 1.5 m, including getting out excavated earth and disposal o		Cum	263.00	103200.00	
. 1	surplus excavated earth as directed.		1 1			11.00
					5.2	1
	Under road way a minimum clear cover of 1.5m is to be provided			1		-
	same can be modified to suit local conditions. The job include	S				
	back filling and cleaning of road.					
			121			

				100
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 -100 mm	1.00	Job	5122.00	5122.00
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.  All kinds of soil.	100	Cum	479.30	47930.00
Backfilling of the excavated earth in trenches in layers not exceeding 20 cm in depth ,consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 metres.	450	Cum	219.00	98550.00 Cs
13. Fabrication, Providing and fitting of Y- junction / Manifold having length of each arm as per site requirement but not less than 2'x2'x2' to be fabricated out of hot dip galvanized G.I, (5.4mm thickness) C-Class pipe as per site requirement. The job also includes Providing and welding of M.S flanges to the ends of each arm. The thickness of Flange shall conform to IS 6392 Part 1st Table -17. The flange welding shall be carried out in double layers to form strong welding joint by way of DC arc welding. The job further includes Providing and Fitting of nuts and bolts,) Rubber Insertion Gaskets to be used between flanged joints.  Nominal Dia -100mm	1.00	Job	9737.00	9737.00 (4)
14. Fabrication, Providing and fitting of Tail piece as per site requirement by Cutting of hot dip galvanized G.I, (5.4mm thickness) C-Class pipe across the section by using pipe cutter/ gas cutter. The job also includes Providing and welding of M.S flanges to the two ends of pipe. The Thickness of flange shall conform to IS 6392 Part 1st Table-17. The flange welding shall be carried out in double layers to form strong welding joint by using DC arc welding. The job further includes Providing and Fitting of nuts and bolts, Rubber Insertion Gaskets to be used between flanged joints.  Nominal Dia - 100 mm	6.00	Job	1544.00	9264.00
15. Fabrication, Providing and fitting of 90-120 degree bend /elbow with flanges, fabricated out of Class C GI pipe (5.4mm thickness) of length as per site requirement and flanged on both ends. The flanges shall be M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16) and welded on both sides. The job includes nuts, bolts, gaskets etc as per site requirement.  Nominal Dia -100mm	12.00	Job	3614.0	0 43368.00
16. Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) 100mm 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		Job	20581	00 82324.00

	juls, boits and gasket required for the job.	Lactures agreement and proceedings	edebolic Listina	MCTORES CONTRACTOR SECURIOR SE	
	providing and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate/ sluice valves 100 mm as per is14846 for regulating the water supply outside the pumping units, the body and bonnet of the valve shall be of ductile iron, wedge with fully vulcanized EPDM rubber (Approved for drinking water) and NBR seal. The Gate/Sluice valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions it shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. The valve shall be supplied along with hand wheel. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. 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.	2.00	Job	19094.00	38188.00
18.	Fabrication of gantry mechanism, bed for staff and base frame and allied works by way of providing Structural steel in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete Welded The job also includes painting of complete Structure in one coat of red oxide and 02 coats of enamel metal paint.  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.	3000.00	Kg.	120	360000.00
19.	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
Sh Ka		1	Job	44473.00	44473.00
21.		V, 1.00	Jol	34053.0	0 34053.00

	A 2002 Co. (27 a)	relation were very brain to be for provin	Marcan entre se entra entre a proceso.	erangian saatista katis oo ee terka saatis aada soo ee katis katis ee ka	
	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.				11.
1	2. Illumination of Premises:	MALES FOR CONTRACTOR AND PROPERTY OF THE PARTY OF THE PAR	Notice of the Park and the Control	three after the color trades are consistent on the second of the color trade	
1	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	1.00	Job	22226.00	22226.00
	having 15° inclination with respect to horizontal plane. Each arm			t <sub>a</sub>	
	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				
1	flexible multi strand 2 mm copper wire from each terminal				
1	connector to each holding arm. The pole is mounted on 1:2:4				
	Cement concreting of size not less than 2'x2'x6" using 04 No				
	anchor bolts of required size not less than 7" in length. The				
	complete job includes earthing in GI Electrode as per relevant IS				
-	Code				
23.	Providing, installation, testing and commissioning of area lighting			100	
	120 Watt LED (Street Light Type) on top of octagonal pole having following specifications:				
	Input: 90-210 Volts				,
1	Power Factor: >0.8				
	Colour Temperature: 4K - 6.5K Beam Angle: 120° - 170° Lumens:				
	>12000	3.00	Job	9486.00	28458.00
	Operating Temperature: -20°C to 60°C			- 45	
	The LED is pressure die cast aluminium housing with power coated				
Á	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			3.0	
24.	Providing and installation of Junction Box with DP 32 A MCB to				
	serve as Main switch for LED Lighting. The job includes making of	1.00	Job	2227.00	2227.00
	electric connection to the circuit.				
25.	Providing and Fitting of 2-Core, 10 Sqr mm XLPE, and 1.1KV and				
	11KV grade Armoured Aluminum Cable of various sizes conforming				
	to IS: 7098 part 1st as service line from the HT transformer to	50.00	Mata	162.00	0400.00
	control panel including necessary thimblings, crimping, taping etc.	50.00	Meter	162.00	8100.00
- 1	To be fitted from auxiliary MCCB of panel to main junction box of				
-	octagonal pole.				
6.	a) Providing of good quality bedding for night stay/Shift consisting				
	of:-				_
11	) Mattress with warm cover of size 6'x3' (6Kg) white cotton - 02				
	No's				
/   i	i) Quilt-with warm cover of size 5'x8' (6Kg)- 02 No's				
المراسيا	Fillows with covers - 02 No's	1	-		
	) Single bed warm blankets with one sided Fur- 02 No's				
n T	he filling material for mattress, quilt and pillow shall be of good	1.00	Job	55000.00	55000.00
4	uality white cotton				
, .					
1	The job also includes providing of pressure cooker 5ltr (02 Nos), teel patella (utensil) 5ltrs (02 Nos), cooking heater (01 No.), room				
C	room (utensii) Sitis (UZ Nos), cooking heater (01 No.)				
51	nator (01 No) start but it is a simple reacter (01 No.), 10011				In a long to a section of
h	eater (U1 No), steel buckets 10 liter capacity (01 No), Plastic				
he	eater (01 No), steel buckets 10 liter capacity (01 No), Plastic ucket 10 liter capacity with Mug (02 Nos) each, steel glasses (06 os), steel Plates with large spoons and bowls (03 Nos) each, Cup				No.

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	transformer bed, taping point bed				
	or transformer bed, taping point, brackets of poles etc)	Production of the Control of the Con	-	to commende the second	contribution has well a product our consequence in understood or reg
	copply, Installation, Testing and as				4
*	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				mental and reflecting along all and add to combustion and any policy decision for the combustion and any combustion and combusti
	double insulator, copper or copper alloy high pressure heavy	2.00	Job	11730.00	23460.00
	insulators, voltage 11KV 200A complete as per 15				
35.	Supply, Installation, Testing and commissioning (1997)	1.00			
36.	Supply, installation, Fixing testing and commission in a	1.00	Set	4983.00	4983.00
	Size- standard	1.00	Set	6000.00	6000.00
37.	Supply, installation, Fixing, testing and commissioning Link Set with Voltage Level- 11KV, Frame- Galvanized channel base Current Rating-100 Amp Size- Standard	2.00	Set	7000.00	14000.00
38.	Supply, Installation, Testing and commissioning of Gapless Surge arrestor station class, 10KA, 9KV, LA With polymer housing, Station Type.	1.00	Set	7754.00	7754.00
39.	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	84.00	No.	300.00	25200.00
40.	Supply, installation, erection of 9 Mtrs long H.T pole of specifications ST-410 (sp-33). The job further includes drilling of holes for installation of various accessories .wherever required the job further includes G.I wire earthing of pole as per REC standard.	28.00	Job	20686.00	579208.00
41.	P/F of Galvanized nuts, bolts of various sizes as per site requirement for fitment of electric substation, poles etc.	140.00	Kgs	130.00	. 18200.00
42.	P/F Danger Plate with clamps	28.00	Job	153.00	4284.00
43.	Providing and fixing G.I Barbed wire as anti-climbing devices	14.0	Kg.	136.00	1904.00
44.	Providing and fitting of Galvanized stay set with 50 X 8 mm Stay Clamp, Guy insulator (2no.), Anchor plate (200X200X6mm), nuts and bolts, 2 NO- turn buckle, 1.8 m long, 16 mm diameter solid G.I stay rod & 7/3.15 mm dia. G.I stranded wire complete.	5.00	Set	4922.00	24610.00
45.	Painting of poles by Red oxide	14	Liter	306.00	4284.00
46.	Painting of poles Aluminum paint	14	Liter	510.00	7140.00
47.	P/L of ACSR conductor 0.05 as per relevant IS code	2400	Mete	er 53.00	
48.	Providing and fitting of PG clamps.	26.00	No.	. 350.00	0 9100.00
49.	Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures.	1.00	Job	29000.0	.00 29000.00
SO.	P/I of earthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per IS: 3043. The job includes Auguring of bore of required Dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards.	4.00	dot	os 10462	2.00 41848.00
	Safe earthing electrode size : 80 mm Dia Length : 2000 mm		V		

	Back fill compound : 30 kg		all the last of the last and the last of t	AND THE PERSON OF PERSON AND THE PER		
	Earth work in excavation by mechanical means (hydraulic excavator) in trenches for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 10 Sqm on plan, including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed, within a lead of 50 metres:-	20.00	СМ	262.70	5254.00	
2.	Providing and laying of soling stone	3.00	CM	740.00	2220.00	
3.	including and laying in position cement concrete of specified grade including curing but excluding the cost of centering and shattering. All works up to plinth level with 1:2:4 mix (1 cement, 2cores sand, 4 graded stone aggregate 20mm nominal size).	10.00	СМ	7000.00	70000.00	
4.	Centring and shattering including strutting, propping etc. and removal of from work for foundation, footings, base for columns	20.00	SM	286.35	5727.00	
	Estimated / advertised amount:	_			5864864.00	
-	Percentage quoted by L1 firm {-1.02%}:					
	Total allotted amount:				5805042.00	

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Executive Engineer

akti PHE Mechanical Division (North)

Sopore