

UNION TERRITORY OF JAMMU AND KASHMIR Office of the SUPERINTENDING ENGINEER, JAL SHAKTI (PHE) MECHANICAL CIRCLE NORTH SRINAGAR



NEW ENGINEERING COMPLEX, NEAR SILK FACTORY ROAD, RAJBAGH, SRINAGAR

Telephone No: 0194-2951906 E-Mail I.D sephemcn@gmail.com

M/s Shaheen Enterprises, Habba-Kadal, Srinagar. GST No: 01CBVPS5381J1Z1.

Subject:

Allotment for Supply, Installation, Testing & Commissioning of Electro-Mechanical equipments for Water Supply Scheme Arth-Churpora for Sub-Division Budgam (District Budgam) of Jal Shakti PHE Mechanical Rural Division Srinagar under Jal Jeevan Mission (JJM) Programme.

Reference:

1. Executive Engineer Jal Shakti PHE Mechanical Rural Division Srinagar's e-NIT No: 168 of 03/2023 dated: 03-03-2023 issued under endorsement No: PHE/MRD/TS/5017-28 dated: 03-03-2023. Corrigendum No: PHE/MRD/5193-5204 dated: 15-03-2023 and No: PHE/MRD/5092-5103 dated: 09-03-2023.

2. Executive Engineer Jal Shakti PHE Mechanical Rural Division Srinagar's letter No: PHE/MRD/405-07 dated: 11-05-2023 and No:

PHE/MRD/424-25 dated: 12-05-2023.

3. Your acceptance letter No: SEP/07 of 2023-24 dated: 04-05-2023.

4. This office letter No: PHE/MCN/JJM/586-88 dated: 15-05-2023.

5. Superintending Engineer Hydraulic Circle Budgam (Member Secretary DJJM) letter No: SE/Hyd/CS/Bud/759-62 dated: 18-05-2023 and No: SE/Hyd/CS/Bud/1353-56 dated: 14-06-2023.

6. Minutes of Meeting of (DJJM) Budgam held on 05-06-2023 issued by District Development Commissioner, Budgam vide No: DDCB/

Plg/JJM/2167-81 dated: 13-06-2023.

7. This office Letter of Intent No: PHE/MCN/JJM/1318-24 dated: 23-06-2023.

8. Performance Security 3% in the shape of CDR No: 3175982 dated: 26-06-2023 for Rs. 5,96,500/- J&K Bank Branch Habba Kadal Srinagar pledged to Superintending Engineer Jal Shakti PHE Mechanical Circle North Srinagar office

A.A Accorded vide order No	CE/PHE/DB/JJM/252 of 09/2022 dated:- 05-09-2022
Tech. Sanction Accorded No	CE/PHE/DB/681 of 09/2022 dated: 20-09-2022
Advertised Cost	Rs. 2,10,77,770/-
Allotted Cost	Rs. 1,98,82,039/=
Time of Completion	120 (One Hundred Twenty) Days

ORDER NO: SE/PHE/MCN/JJM- O 3 of 07/2023 **--07-2023**

For and on behalf of Lieutenant Governor Union Territory of ammu & Kashmir, the contract for Supply, Installation, Testing & Commissioning of Electro-Mechanical equipments for Water Supply Scheme Arth- Churpora under Jal Jeevan Mission is hereby allotted in your favour with the allotted cost of Rs.1,98,82,039/- (Rupees One Crore Ninety Eight Lacs Eighty Two Thousand and Thirty Nine Only) in references to above e-NIT, terms, conditions and specifications contained in Annexure "A" & "B" respectively.

No: PHE/MCN/JJM/1477-84

Dated: | | -07-2023

(Dr. Brithi Bal Singh)

(Er. Prithi Pal Singh)
\Superintending Engineer,

Jal Shakti PHE Mech. Circle North, Srinagar.

Copy to the:-

01: Principal Secretary to Govt. Jal Shakti Department, Civil Secretariat, J&K for information, please.

02: Chief Engineer Kashmir Jal Shakti PHE Department Srinagar for information please.

03: Mission Director, Jal Jeevan Mission J&K, Civil Secretariat J&K for information.

04: District Development Commissioner, Budgam (Chairman District Jal Jeevan Mission) for information.

05: Deputy Commissioner (Administration), Sales Tax Department, Kashmir for information.

06: Superintending Engineer, Hydraulic Circle Budgam (Member Secretary JJM) for information.

07: Executive Engineer, Jal Shakti PHE Mechanical Rural Division Srinagar for information and necessary action. He is directed to execute the work strictly as per the approved design, construction drawings and specifications. He shall also take all the measures for abiding strictly to quality control practices as per relevant ISI code, appropriate sections of tender documents and standard practices of engineering. He should also get the latest Sales Tax Clearance Certificate from the agency before the start of work.

08: File concerned.

ANNEXURE "A" to this office allotment order No: PHE/MCN/JJM/ O 3— of 07/2023 dated: //--07-2023

S.	Particulars	Qty.	in Rupees)	Amount
No.	OM 4 OT 1 OM	5.7.		
.01	STAGE 1ST Supply, Installation, Testing & Commissioning of Non-clog Pumping Unit as per	T		
.01	IS 5600 at Raw Water Stage.			
	PUMP: -			
	Discharge: 25000 GPH		1	
	Head: 41 Meters			
	Type of pump : Non-clog Open well Submersible Vertical Pump			
	Solid Handling Capacity: 20mm (Minimum)			
	Quality of water to be handled: Raw water		-	
	MATERIAL OF CONSTRUCTION:			
	As per IS 5600, suitable for above parameters.			
	Make-		1	
	MOTOR: -		9	
	Type: Squirrel Cage 3-Phase Induction Motor Speed: 1500 rpm (syn)			
	Rating: Suitable for above parameter	02 Jobs	387374	774748
	Method of starting: Star – Delta.	02 0000	33,31	1107
	Frequency: 50Hz ± 3%		-	
	Voltage: 415 ± 6%,-15%			
	Class of insulation: Suitable for above rating.			
	Make of Pumping Unit: Kirloskar/KSB/Grand Foss/CRI/or equivalent			
	standard. 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			
	The job includes providing and fitting of suitable size/dia GI nipple for pumping			
	equipment as per site requirement.			
	Note: The Pump Unit supplied shall be provided with the test certificate	1		
	from OEM confirming the required discharge at the given head. The head and discharge given on performance curve must meet out requirement at	1		
	the site of commissioning.			
1.02	Fabrication, Providing and Fitting of split type MS clamps 10 mm thick, 02 feet		- 6	
1.02	long and 03 inch wide for lowering and holding of pumping unit fitted. The job	02 Jobs	1801	3602
	includes the cost of required size of nuts and bolts.	02 0000	1001	5552
1.02	Providing and fitting of 25 Sq.mm 3-Core flat submersible copper cable			
1.03	conforming to IS: 694 (Part 1st) – 1964 & IS: 694 (Part 2nd) - 1964 as power			
	wiring to Pumping Units and for interconnections to other electrical Equipment.	120 Meter	1106	132720
	The cable connections terminal shall be fitted with copper thimbles of required			
	size			
1.04	Fabrication, Providing and fitting of Modular motor control panel of appropriate			
	size fabricated out of 14 SWG sheet having required openings/vents and	1		
	protection Class: IP-55 & fitted with accessories as under:	1 1		
	Bus bar Chamber: The bus bar chamber shall be fitted at the top of the panel horizontally/vertically	-	14	
	throughout the length. There shall be 3 Nos. of phases bus bar and 1 No neutral		10.00	
	bus har 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		5/31	
	400 Ampere. All panel compartments shall be provided with suitable cable alley	55	2-139	
	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	100		
	colour strips of red, yellow, blue and black and the same be arranged in accordance with IS-375 specifications. Electrical clearances shall be maintained	16.7	(4)	
	between phases, neutral and body as per standards.	- 10	- 17	
	Main Circuit Breaker (Incomer MCCB):	To be	157	
	Oty. = 02 Nos	90		
	No. of poles = 4 Nos	100	5	
	Current Rating = 200 -250 Amp.	01 Job	364706	364706
	Rated operational voltage = 415 V + 15 %			
	Rated frequency = 50+/-3%Hz			
	Ambient temperature = 40° C Ultimate S.C Breaking Cap at (415V AC, 50 Hz) = 50KA	300		
	Type of release = Thermal-Magnetic	No.	7,4	
	Change over Switch:	8	1.9	
	Qty. = 01 No.			
	Rating = 315 Amp			
	Type = Front operated, on load, 4 pole, $400 \pm 15\%$ V, $50 \pm 3\%$ Hz.			
	Motor Back-up Protection MCCB:			
	Quantity = 02 Nos. Poles = 03 Nos			
	Rated Current -100-125 Amp			
	Rated operational voltage = 415 V ±15 %	1 1	1	
	Rated frequency = 50 ± 3% Hz		- L	
0	Ambient temperature = 40°C			
1 74	VIltimate S.C Breaking Cap. at (415V AC, 50 Hz) = 50 KA	1		

AND DESCRIPTION OF THE PERSON				
A DESCRIPTION OF THE PARTY OF T	Starters:-			
	Fully automatic star delta starters.	1	1	
	Power Specs = 3Φ , $415 \pm 15\%$ V, $50 \pm 3\%$ Hz.	ŀ	1	
FINANCE S	Relay range= 66-110 A	1		
	Coil Voltage = 380 v		1	
	Protection = single phasing, phase Reversal, phase unbalance			
	Qty. = 2 No's	ĺ		
	Auxiliary MCCB for Heating/Lighting:			1
111111	Circuit Breaker = MCCB (Outgoing)			1
3	Qty. = 1 No.	1		1 1
	No. of poles = 4	1		
1	Current Rating = 32 Amp.		1	
	Rated operational voltage = 415 V ± 15 %	1	1	1.4
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA			20
4	Motor Protection Relay: Digital Motor Protection Relay with LCD Display for 3-phase supply with following	1		7.50
	protections suitable for the Modular Control Panel:-			
	Protections = Thermal Overload with pre-alarm, Short Circuit, Phase Loss,			All a
7 - 1	Unbalance, Phase reversal, Under Current, Prolong starting, Locked Rotor, Earth			
	fault and over current.			
	Quantity = 02 No's			
	Besides above, M-power module for mobile starting for submersible motor 1P/3P			
	3 wire Quantity – 02 No.			
	IVRS Languages - English , Hindi, Suitable Region- North India		5. 1	
	The panel shall be provided with phase indicators (03 N0) and digital ammeter of			
	range 0-100 A (02 Nos) digital voltmeter of range 0-500 V (01 No) and digital			
1	frequency meter (01 No). The enclosure of the panel shall be of excellent fit and	1 1		
	finish, corrosion resistant and powder coated with gliding hinges for smooth and noiseless movement of windows having advanced locking arrangements.			
	Preferably make of constituent parts: ABB/Schneider/L&T/C&S			
1.05	Providing, fitting, testing and commissioning of 100 KVA voltage stabilizer as per			
1.00	specifications below:			
	Capacity: 100 KVA, 3-phase			
1	Type of voltage controller: Manually operated copper wound, 3-phase, AC power			
	supply multi- step.			
	Type of Regulator: Double plate type with electrolytic copper contacts.			
	Input voltage: 150 volts. (3 phase)			
	Output voltage: 415 ±10% volts.	1 1		
	Frequency: 50 ±3 C/S.	1		
	Windings: Electrolytic grade copper of adequate section, vacuums impregnated and	1	-	
	Oven dried.	1 1		
	Insulation: Fibre glass insulations of tested parameters.	1 1		
	Cooling: Naturally Oil cooled	1 1		
	Temp. Rise (Max): 30°C above ambient	1		
	Mounting: On Uni-directional wheels.	1 1		
=	Correction rate: 30 volts per step	1 1		
	Wave form distortion: virtually nil	02 Jobs		
	Duty cycle: 100% continuous.	02 3003	196466	392932
	Enclosure: MS sheet enclosure in pressed CGR Sheet powder coated with	1 1		
	radiators of adequate thickness.	1 1	1	
	Core laminates: High grade, low eddy loss, grain oriented silicon steel or CRG		1	
	core.			
	Load: Three phase induction motor load.	-	- 1	
	The voltage stabilizer shall be capable to withstand load 10% above maximum	1		
	load for 02 hour operation. The voltage stabilizer shall have T-oil level indicator	1 - 1	14.1	
	gauge preferably glass type tube or otherwise visible to naked eye. The top of the	1 1	1 1	
	container shall have a display panel for housing 02 numbers voltmeters (0-500V)	5		
	along with 4-way selector switch and set of neon indicators for incoming and	- 60	16.	
	outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade with 62			
	dielectric value is to be provided and filled up to top level. The T-Oil of above	<u>- 1</u>	4.4	
	grade should be provided in separate barrels and filled at site up to top level.	11 c	4	
	NOTE: The voltage Stabilizer shall be provided with manufacturers test	117	The second	
	certificate duly stamped, confirming the rating of equipment's. The Voltage	11/3	200	
	Stabilizer shall have name plate with specifications, name of manufacturer		100	
100	and name of Water Supply Scheme.			
1.06	Providing and Fitting of 3.5-Core, 95 Sq. mm XLPE, and 11KV grade Armoured			
	Aluminium Cable of various sizes conforming to IS: 7098 part 1st as service line			
	from the HT transformer and DG set to control panel including necessary	80 Meter	837	66960
	thimblings, crimping, taping etc. to be fitted from changeover panel to modular			
	panel. The job also includes P/F of Aluminium thimbles of various sizes as per	1		
1.07	site requirement including crimping and taping.			1-12-22-3-1
1.07	Providing and fitting of 200mm Dia G.I flanged Rising Main at site. The Pipe		1	
	shall be hot dip Galvanized, class C (6 mm thickness) confirming to IS 3589- 2001. The job includes providing and fitting of M.S Flanges conforming to BIS		1	
1	6392/1997 Table 17 (Rating PN16). The flanges shall be double welded both from			
1	inside and outside of the pipe using standard electrode of reputed make Flanges	2100	5134	10781400
	(as per IS 6392/1997 Table: 17) Thickness shall conform to IS 6392 Part 1et	Meter	3.3.	A 300 M
1	Table-17. The flange welding shall be carried out in double layers using Advant			
(JAM)	Esab/L&T-SS Bond make electrodes to form strong welding joint. The electrodes			
THE .	shall be having diameter not less than 4mm, Nuts and Bolts, Rubber Insertion			The state of the s
S				

and the latest the lat	Gaskets of reputed makes to be used between flanged joints. The work includes	1		1
	the cost on account of earth work excavation by mechanical means of all sorts			
1.08	and backfilling for laying the raising main underground as per site requirement. 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	•		
ALTERNATION OF THE PARTY OF THE	G.I (6 mm thickness) C-class pipe with M.S. Flanges conforming to RIS	02 Jobs	9730	19460
AL.	6392/1997 Table 17 (Rating PN16) fastened with weld joints on three ends. Nominal Dia -200 mm			
1.09	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 bot			
	up gaivanized G.I. (6 mm thickness) C-Class pipe as per site requirement. The			133
	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			37
	welding shall be carried out in double layers using Advani/Esah/I&T- SS Bond	01 000	17000	17000
	make electrodes 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 -200mm			1.0
1.10	Fabrication, Providing and fitting of Tail piece as per site requirement by Cutting			7.00
	of not dip gaivanized G.I. (6 mm 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 using	12 Jobs	2265	27180
	Advani/ Esab/L&T-SS Bond Make electrodes to form strong welding joint by		1	
	using DC arc welding. The job further includes Providing/Fitting of nuts and bolts, Rubber Insertion Gaskets to be used between flanged joints.		,	
	Nominal Dia - 200 mm			
1.11	Fabrication, Providing and fitting of long radius bend out of Class C G.I Pipe (6			
	mm 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	15 Jobs	8063	120945
	PN16) and welded on both sides. The job includes nuts, bolts, gaskets etc. as per site requirement.			
	Nominal Dia - 200mm	1		
1.12	Providing and fitting of Ductile Iron double flanged, Slanted seat swing check	7.		1 1 4
	valve(NRV) 200 mm as per IS 5312. The body shall be of ductile cast iron with			
1	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	06 Jobs	42392	254352
	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		55.5	
1	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		100	
	job.	'		
	Preferably makes: VAG/AVK/SIGMA FLOW		W	
1.13	Providing and fitting of, Ductile Iron double flanged, non-rising spindle soft	la:		
	seated glandless gate/ sluice valves 200 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	lin .		
	drinking water) and NBR seal. The Gate/Sluice valve shall be compatible for	-		
- 1	buried applications and shall be safe to install in both horizontal and vertical			
1	positions It shall have electrostatic epoxy coating (approved for drinking water)		1 1	
	both inside and outside of the valve. The valve shall be supplied along with hand	04 Jobs	34310	137240
	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		- 1	
1	to the inbuilt flanges of the valve which shall be fitted with rising main of the		4	
	pumping unit at appropriate spots as per site requirement. The job includes		8.4	
	the cost on account of P/F of nuts, bolts and gasket required for the job.	1	w 1975	
	Preferably makes: VAG/AVK/Sigma Flow	2 TA		h .40
1.14	Providing, fitting, testing and commissioning of ARV (Air Release valve) as per IS 14845 to be fitted to G.I rising Main. The ARV Shall have the following	15 AS		
	specifications:		100	
	Valve type - single chamber, single orifice	Was .		
	Nominal Dia=50 mm. End connection - flanged ends to IS 1538	100		
	Working temperature - 70oc to 550 c	j	7	
	Test pressure - body / seat 2.5 x PN	02 Jobs	19394	38788
	Scaling ring - EPDM Construction dustile iron with exciplese steel fleets			
	Construction -ductile iron with stainless steel floats Coating - epoxy with corrosion resistance	F	r n	
I	Besides the above works, The job also cost on account of P/F R.I gasket, nuts			
		100		
	and bolts required for installation of ARV and arrangement of gas cutter/ welding			
	set at site.			
1.15	set at site. Preferably makes: VAG/AVK/Sigma Flow			
1.15	set at site.	7000 Kgs	124.85	873950

	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 and other structural steel members, shall be used	4	<u> </u>	
	as per directions of site engineer, same may vary as per site requirement as it is conditional to civil structures being constructed.			L
1.16	Providing, installation and testing of manual type triple spur gear chain pulley	0.		III III
	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	1		
7.	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	01 Job	62972	62972
	and Specially designed, perfectly machined wheel providing correct grip of load			40.1
	chain to makes the hoist most safe and reliable against any failure. The main specifications of C.P Block are given below		14	-1 4
	i. Make = Indeff / Pull lift		1	
	ii. Capacity = 3 ton Iii. No. Of load chain falls = 2			1
	iv. Min. Height of lift = 6 M			
1.17	Supply, installation, Testing & commissioning of 950VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Automotive inverter		19	
	Battery with trolley and cover. with 2-core 4 mm2 Cu (25 m) wiring as per site	01 Job	34053	34053
	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/Luminous/Amaron			
1.18	Illumination of Premises: Providing / erection of 09 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.	4		
	2) 3 No MCB 8 Amp. The job includes fabrication, providing and fitting of three arm GI structure at the	01 Job	00003	00000
	top having 120' angle between arms and each arm having 15' inclination with		22893	22893
	respect to horizontal plane. Each arm should be of 2' length and size and shape appropriate as per requirement of the luminary.			T _{rea}
	The job also includes providing and fitting of required length of flexible multi			1 1
	strand 2 mm copper wire from each terminal connector to each holding arm. The pole is mounted on 1:2:4 Cement concreting of size not less than 2'x2'x6" using			
	04 No anchor bolts of required size not less than 7" in length. The complete job includes earthing in GI Electrode as per relevant IS Code			
1.19	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	1.46		
	Colour Temperature: 4K - 6.5K Beam Angle: 120° - 170° Lumens > 12000 Operating Temperature: -20°C to 60°C	03 Job	9486	28458
	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	1	1	× 1
	wire as provided in the high mast pole			
1.20	Providing and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED Lighting. The job includes making of electric connection to the	01 Job		41
	circuit.		2227	2227
1.21	Providing and Fitting of 2-Core, 10 Sqr mm XLPE, and 1.1KV and 11KV grade Armoured Aluminium Cable of various sizes conforming to IS: 7098 part 1st as	- r 1,9, t	lip i	
	service line from the HT transformer to control panel including necessary	50 Mtr	162	8100
	thimblings, crimping, taping etc. To be fitted from auxiliary MCCB of panel to main junction box of octagonal pole.			
1.22	a) Providing of good quality bedding for night stay/Shift consisting of: -			
	I) Mattress with warm cover of size 6'x3' (6Kg) white cotton - 02 No's ii) Quilt with warm cover of size 5'x8' (6Kg)- 02 No's	1.0).	
=	iii) Pillows with covers - 02 No's	1		
	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	01 Job	39619	39619
۸	cotton			
(I.K)	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			
Mr.	buckets 10 litre capacity (01 No), Plastic bucket 10 litre capacity with Mug (02			6 %

4				
N	los) each, steel glasses (06 Nos), steel Plates with large spoons and bowls (03			
IN IN	los) each, Cup and Saucer set (01 No. Set) and, 5kg Gas cylinder with burner/			
5	tove. The job also includes providing of thermo cool 15'x12' along with excel			
	natting of 15'x12' size. The job also includes providing of unbreakable Plastic			1_
ir	Chair table set consisting of chairs 04 No's, heavy Table 01 No. The job also ncludes providing of good quality safety Door locks (03 No's).			
1.23 P	Providing laying & fixing with adhesive (harding restorial of insulations).	-		
1 -	Providing, laying & fixing with adhesive/bonding material of insulation rubber nats on the floor of the pump house, covering area around electro- mechanical			
п	nachinery for safeguarding the life & limb of the workmen due to possible			100
16	eakage of current & short circuit. The floor surface shall be made good & shall be			
fr	ree from dust, grease, foreign material & moisture free. The mats shall be as per	08 Mtr	1205	9640
13	S 15652:2006 & shall have the following specifications: Composition: Rubber		1203	3040
()	synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The			
Г	ubber mats shall be accepted with manufacturers test certificate. Make :			
J	Jyou/Dunlop			
1.24 F	Providing, Installation and testing of 2KVA fully automatic voltage stabilizer with		T _E	N. Landida.
111	nput voltage 70-240 V and output 220 V. The stabilizer shall be installed and	01 Job	8154	8154
1.25 F	connected to the electric circuit as per location provided by site in charge.			
1.23	Providing and fitting of 19 mm thick multi-layered ply sheet of size 6 x 3 feet, 02	36 sqft		
1,	No's including cutting, fixing all complete including painting of the play sheet by	JU Sqrt	154	5544
	one coat of primer and two coats of enamel paint			
	Supply, installation, commissioning and creation of pole mounted, outdoor		~	
4	ype 200 KVA capacity Level II Electric Sub Station as per the amendment No. 4 March 2021 to IS: 1180 (Part 1) 2014 (Fourth Revision).		1	
	Type: HT/LT Transformer			
	Type of cooling: ONAN. Operating conditions:			
	nput = 11000 volts			
	Output =433 volts AC supply in 3- phase. Terminals:			
	input=3 No. HT bush rods with insulators, washer, nuts etc.			
	Output=4 No. LT bush rods switch insulators, washers, nuts etc.			
	Core: The core shall be of high permeability to reduce core losses and the strips			
	shall be of suitable size and gauge.			
	Fransformer Coils: Suitable number of HT and LT coils in each leg of the core.			
T	The transformer coils shall be fabricated out of superior quality Aluminium			
V	wire/strips properly wound. The HT transformer is completely filled with suitable	01		
	grade transformer oil up to required level. The job includes carriage, and all leads	Job	402146	40214
	and lifts involved.	1		
Т	The HT transformer shall be of reputed make from an ISO certified company as			
	per relevant standards and a test certificate shall be provided before installation.			
	The transformer shall also be provided with breather fill with silica jell crystals,			
	conservator with oil level indicator, explosion vet and adequate radiator fins/			
	Pubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with			
	atest amendments. The scope of work shall include obtaining of necessary			
	nspection/clearance certificate from the concerned Department for the			
	equipment.			
	NOTE: The OEM shall be CPRI certified and equipment's supplied shall be			
P	provided with test certificate confirming the rating and standard of H.T/L.T			
	Distribution Transformer. The testing and Commissioning of the equipment			
	shall be completed only after obtaining above certificate.			
	Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (for	300	100	0000
	ransformer bed, taping point, brackets of poles etc.)	Kgs	123	36900
.28 S	Supply, Installation, Testing and Commissioning of Polymeric Gang operated Air			
b	reak switch, outdoor type, triple pole, suitable for vertical installation, single		1	
b	reak provided with locking arrangement at both ON and OFF position consisting	02		
0	of HT post double insulator, copper or copper alloy high pressure heavy contact		11730	23460
а	assembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe	Jobs		
	conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp	96		
	complete as per IS specs	145		
1.29 S	Supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn	01 Set	4000	4983
1 20 1	Gap 3-phase 200 A suitable for vertical installation.		4983	4983
1.30 S	Supply, Installation, Testing and commissioning of Gapless Surge arrestor station	01 Set	7754	7754
1.31 S	class, 10KA, 9KV, LA With polymer housing, Station Type.		1154	1154
1.51	Supply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN,	16 No's	347	5552
1.32 S	Lighting impulse 75KV Positive, and 80 KV Negative, creepage distance 320 mm		347	0002
_	Supply, installation, erection of 9 Mtrs long H.T pole of specifications ST-410 (sp-		4	
ا ا	33). The job further includes drilling of holes for installation of various	08 Jobs	21720	173760
l a	accessories wherever required the job further includes G.I wire earthing of pole		21120	
I -	as per REC standard.	24		
а	Providing/Fitting of Galvanized nuts, bolts of various sizes as per site requirement	40 Kgs	142	5680
1.33 F	Or litment of electric substation, poles etc.	160	172	
1.33 F	or fitment of electric substation, poles etc.	767		
1.33 F fo 1.34 F	Providing/Fitting of Danger Plate with clamps	08 Jobs	153	1224
1.33 F fo 1.34 F		08 Jobs		
1.33 F for 1.34 F	Providing/Fitting of Danger Plate with clamps	08 Jobs 04 Kgs	153 136	1224 544 29532

Sucket. 1.8 m long, 16 mm diameter solid C.I Stay Rod and 7/3.15 mm dia. C.I stranded wire complete.	Apply -	insulator (02 No.) Anchor plate (200 vocave			
1.37 Suiting of poles by Red oxide 0.4 Ltrs 3.06		insulator (02 No.), Anchor plate (200X200X6mm), nuts and bolts, 2 No-Turn Buckle, 1.8 m long, 16 mm diameter solid G.I. Stay Pod and 7/3 15 mm dia C.I.			
1.39 Painting of poles by Adminishum paint 1.39 Providing/Laying of ACSR conductor 0.05 as per relevant IS code 600 Mrts 60 1.40 Providing/Laying of ACSR conductor 0.05 as per relevant IS code 600 Mrts 60 1.41 Supply, installations of PC clamps. 1.42 Providing/Laying of ACSR conductor 0.05 as per relevant IS code 600 Mrts 60 1.43 Supply, installations of PC clamps. 1.44 Providing/fitting of 11 KV cable termination kit for connecting 35 Sq mm XLPE 60 Mrts 60 1.45 Providing/fitting of 11 KV cable termination kit for connecting 35 Sq mm XLPE 60 Mrts 60 1.46 Providing and fitting of 11 To Istarbution box for 11 Tarasformer with 100 1.47 Providing and fitting of 12 To Istarbution box for 11 Tarasformer with 100 1.48 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.45 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.46 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.47 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.48 Providing Installation of earthing for electric aubstation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 18: 3043. The job includes Auguring of bere of required Dia/depth for installation of electrode along with bacidii compound mixed with soil and all other items required thereof for calcivring the best result. The job includes connecting of electric agadest through a per relevant standards. 1.49 Providing, Installation, Testing & commissioning of 15 10980 (output), 3 phase 82.50 KVA water cooled Diesel Generator set aper 18 S528 (2018) and ISO 3046 (2002) for engine and ISC/18 60034-1 for alternation satisby assembled and fitted in a publicion free acoustic enclosure / caopy of required size as per 19 G5 et a required to be fitted with file of the 19 G5 et al. and the set and the set of the 19		suanded wire complete.			
1.38 Painting of poles by Aluminium paint 0.9 Litrs 5.10 1.40 Providing Laying of AcSR conductor 0.05 as per relevant 15 code 0.00 0.00 1.41 Supply, installation, testing of 35 Sqr mm XLPE HT cable (ABC type) for 11 KV 18 Meter 18 Meter 18 1.42 1.42 Providing and fitting of 11 KV cable termination kit for connecting 35 Sq mm XLPE 18 meter 18 meter	37	Painting of poles by Red oxide	04 14==	205	
1.39 Providing/Larging of ACSR conductor. 0.05 as per relevant 1S code 600 Mbrs 601 1.41 60 Providing and fitting of PC clamps 600 Mbrs 600 Nbrs 1.42 Supply, installation, testing of 35 Sqr mm XLPE HT cable (ABC type) for 11 KV 18 Meter 1.43 Providing/Fitting of 11 KV cable termination kit for connecting 35 Sq mm XLPE 1.44 Providing and fitting of 1LT Distribution box for H.T transformer with 100 1.45 Providing and fitting of LT Distribution box for H.T transformer with 100 1.46 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.47 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.48 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.49 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.40 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.41 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.42 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.43 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.44 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.45 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.46 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.47 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.48 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.49 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all 1.40 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter 1.40 Providing and fitting with all 1.41 Providin	38	Painting of poles by Aluminium point			1224
1.00 Doubling and fitting of PC clamps. 1.00 September 1.00 September 2.00 Septe	39				2040
Supply, installation, testing of 35 Sqr mm XLPE HT cable (ABC type) for 11 KV 18 Meter 818 Providing/Fitting of 11 KV cable termination kit for connecting 35 Sq mm XLPE cable (ABC type) with the existing HT lien near tapping point and HT transformer with 100 Ampere, 36KA MCCB for principle rate of the cable (ABC type) with the existing HT lien near tapping point and HT transformer with 100 Ampere, 36KA MCCB for incomer and SFU for outgoing circuits (for 200 KVA Substation) 1.44 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all silled Accessories and fixtures. 1.45 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all silled Accessories and fixtures. 1.46 Providing Alled Accessories and fixtures. 1.47 Providing Installation of earthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 153: 3043. The job includes Auguring of bore of required bial depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for exhering the best result. The job includes connecting of electric agates through Grant and the state of the stabilization of the stable and the stabilization of the sta	40	Providing and fitting of PG clamps			36000
1.42 Providing (Fitting of 11 kV cable termination kit for connecting 35 Sq mm XLPE cable (Explexity per) with the existing HT line near tapping point and HT transformer Providing and fitting of LT Distribution box for HT. Transformer with 100 Amperes, MCCB For incomer and SPU for outgoing circuits, (for 200 kVA Substation). 1.43 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.45 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.46 Providing and fitting of the phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.47 Providing and fitting of the phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.48 Providing and fitting of the phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures. 1.49 Providing and fitting for dectric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 18, 3043. The job includes Auguring of hore of required for installation of electrode along with backfill compound mixed with soil are per relevant standards. 1.40 Providing, installation, Testing & commissioning of 415 ±10% (output), 3 phase 32.60 kWA water cooled Diesel Generator set as per 18, 5228 (2018) and 150 3046 (2002) for engine and lEC/18 6003+1 for alternator suitably assembled and Ministry of Environment acoustic enclosure / campy of required size as per T Pod Set is required to be fitted and tested on load at site The D.G Set shall have the following technical specification. 1.40 Besides the above works the D.G set that provided with 12 V, 150 AH Lead acid battery of reputed make fitted inside the D.G set Campy along with necessary accessories and battery charger of required capacity. 1.41 Providing the provided provided the provided for operation of D.G set for a period of 10 hours continuous for the provided provided the provided provided provided prov	41	Supply, installation, testing of 35 Sor mm XI PE HT cable (ABC time) for 11 KV		421	2526
1.43 Providing and fitting of LT Distribution box for H.T transformer with 100 Ampere, 30KA MCCB For incomer and SPU for outgoing circuits. (for 200 kVM Ol Job Substation) 1.44 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all alled Accessories and fixtures. 1.45 Providing Installation of carthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 18: 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 Ol strip as per relevant standards. 1.46 Substantial Compound of the strip as per relevant standards. 1.47 Substantial Compound of the strip as per relevant standards. 1.48 Substantial Compound of the strip as per substantial properties of the strip and fitted in a pollution free acoustic enclosure canopy for required size as per Ministry of Environment protection rule 1986 read with latest amendments. The DG Set is required to be fitted and tested on load at site fire D. Get shall have the following technical specification. 1.48 Substantial Compound of the strip and compound of th	40	stade with cross sectional area 3x35.		818	14724
1.44 Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all alled Accessories and fixtures. 1.45 Providing Installation of earthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 18: 3043. The job includes Auguring of bore of required bia/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 OI strp as per relevant standards. Safe earthing electrode size: 80 mm Dia Length: 2000 mm Length: 2000 mm Length: 2000 mm Dia Le	-	cable (ABC type) with the existing HT line near tapping point and HT transformer	04 No's	8994	35976
allied Accessories and Incures Providing/Installation of earthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 18: 3043. The job includes Auguring of bore of required Dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards. Safe earthing electrode size: 80 mm Dia Length: 2000 mm Back fill compound: 30 kg Providing, installation, Testing & commissioning of 415 ±10%V (output), 3 phase 82.50 KVA water cooled Dissel Generator set as per 18 5528 (2018) and ISO 3046 (2002) for engine and IEC/IS 60034-1 for alternator suitably assembled and fitted in a pollution free acoustic enclosure / canopy of required size as per 10 GS et is required to be fitted duri to led 180 feat with latest amendments. The DG Set is required to be fitted duri to led 180 feat with latest amendments. The DG Set is required to be fitted entire 1906 feat with latest amendments. The DG Set is required to be fitted entire 1906 feat with latest amendments. The DG Set is required to be fitted entire 1906 feat with latest amendments. The DG Set is required to be fitted entire 1906 feat with latest amendments. The DG Set is required to the fitted entire 1906 feat with latest amendments. The DG Set is required to 10 feat of 10 hours continuously during its testing and commissioning of DG set at site. The capacity of the D.G set is given below: **ALTERNA* and solutions of 10 hours continuously during its testing and commissioning of D.G set at site. The capacity of the D.G set is given below: **ALTERNA* from the with solutions of 10 hours continuously during its testing and trouble free operation. **SpecificAtions** **ALTERNA* from the with solutions of 10 hours continuously during its testing and trouble free operation. **SpecificAtions** 1) Specet. 1500 ppm 3) Efficiency-88.8% 4) Voltage: -1500		Substation) Ampere , 36KA MCCB For incomer and SFU for outgoing circuits. (for 200 KVA Substation)	01 Job	105767	10576
comprising of company fabricated earthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per 18: 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 OI strip as per relevant standards. Safe earthing electrode size: 80 mm Dia Length: 2000 mm Back fill compound: 30 kg. Providing, installation, Testing & commissioning of 415 ±10%V (output), 3 phase 82.80 KVA water cooled Diesel Generator set as per 18 5528 (2018) and ISO 30.96 (2002) for engine and IEC/18 60034-1 for alternator suitably assembled and fill of the strip of the str		amed Accessories and lixtures.	01 Job	29000	29000
1.46 82.50 KVA water cooled Diesel Generator set as per IS 8528 (2018) and ISO 3046 (2002) for engine and IEC/IS 60034-1 for alternator suitably assembled and fitted in a pollution free acoustic enclosure / canopy of required size as per Ministry of Environment protection rule 1986 read with latest amendments. The DG Set is required to be fitted and tested on load at site The DG Set shall have the following technical specification. Besides the above works the D.G set shall be provided with 12 V, 150 AH Lead acid battery of reputed make fitted inside the D.G set Canopy along with necessary accessories and battery charger of required capacity. The job also includes the cost on account of HSD and skilled operator required for operation of D.G set for a period of 10 hours continuously during its testing and commissioning of D.G set at site. The capacity of the D.G set is given below: ALTERNATOR The alternator shall be self-excited. Self-regulated for desired rating. The alternator shall be fitted with high performance AVR and suitable for continuous and trouble free operation. SPECIFICATIONS 1) Rated Output at above Site Conditions: - 82.50 KVA 2) Rated Speed: - 1500 rpm 3) Efficiency-88.8% 4) Voltage: - 415 V at 50 Hz DIESEL ENGINE (Prime Mover) The engine shall be diesel driven to develop requisite BHP at 1500 rpm for the alternator rated as above at an altitude of 1600m AMSL with ambient temperature ranging from -15 'C to + 40 'C under 60% humid conditions. Specifications: - 1) Speed: - 1500 rpm 2) No. of cylinders: - 04 3) Aspiration: - TC 4) Cooling system;-water cooling 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank-switable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and fitted with intel youlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery: - 02 No- 12 volt battery along with leads and terminal		includes Auguring of bore of required Dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards. Safe earthing electrode size: 80 mm Dia Length: 2000 mm	04 Jobs	10462	41848
ALTERNATOR The alternator shall be self-excited. Self-regulated for desired rating. The alternator shall be fitted with high performance AVR and suitable for continuous and trouble free operation. SPECIFICATIONS 1) Rated Output at above Site Conditions: - 82.50 KVA 2) Rated Speed: - 1500 rpm 3) Efficiency:-88.8% 4) Voltage: - 415 V at 50 Hz DIESEL ENGINE (Prime Mover) The engine shall be diesel driven to develop requisite BHP at 1500 rpm for the alternator rated as above at an altitude of 1600m AMSL with ambient temperature ranging from -15 'C to + 40 'C under 60% humid conditions. Specifications: - Specifications: - 1) Speed: - 1500rpm 2) No. of cylinders: - 04 3) Aspiration: - TC 4) Cooling system;-water cooling 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank:-suitable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and fitted with inlet/outlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery:- 02 No- 12 volt battery along with leads and terminals C/W charging dynamo and cut out fitted with suitable rating starting system. 3) Safety control: - In order to shut down the engine in the event of high water temperature emergency control switch shall be provided. It shall also be fitted with ant vibration pads, cold starting aid, asfety control for low lube pressure etc. 4), Radiator:- Suitable Size C/W hoses, clamps etc. C) Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil	46	Providing, installation, Testing & commissioning of 415 ±10%V (output), 3 phase 82.50 KVA water cooled Diesel Generator set as per IS 8528 (2018) and ISO 3046 (2002) for engine and IEC/IS 60034-1 for alternator suitably assembled and fitted in a pollution free acoustic enclosure / canopy of required size as per Ministry of Environment protection rule 1986 read with latest amendments. The DG Set is required to be fitted and tested on load at site The D.G Set shall have the following technical specification. Besides the above works the D.G set shall be provided with 12 V, 150 AH Lead acid battery of reputed make fitted inside the D.G set Canopy along with necessary accessories and battery charger of required capacity. The job also includes the cost on account of HSD and skilled operator required for operation of D.G set for a period of 10 hours continuously during its testing and commissioning of D.G set at site. The capacity of the D.G set is			
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DIESEL ENGINE (Prime Mover) The engine shall be diesel driven to develop requisite BHP at 1500 rpm for the alternator rated as above at an altitude of 1600m AMSL with ambient temperature ranging from -15 °C to + 40 °C under 60% humid conditions. Specifications: - 1) Speed: - 1500rpm 2) No. of cylinders: - 04 3) Aspiration: - TC 4) Cooling system;-water cooling 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank:-suitable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and fitted with inlet/outlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery: - 02 No- 12 volt battery along with leads and terminals C/W charging dynamo and cut out fitted with suitable rating starting system. 3) Safety control: - In order to shut down the engine in the event of high water temperature emergency control switch shall be provided. It shall also be fitted with ant vibration pads, cold starting aid, safety control for low lube pressure etc. 4). Radiator:- Suitable Size C/W hoses, clamps etc. C) Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil				s m	
The engine shall be diesel driven to develop requisite BHP at 1500 rpm for the alternator rated as above at an altitude of 1600m AMSL with ambient temperature ranging from -15 °C to + 40 °C under 60% humid conditions. Specifications: - 1) Speed: - 1500rpm 2) No. of cylinders: - 04 3) Aspiration: - TC 4) Cooling system:-water cooling 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank:-suitable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and fitted with inlet/outlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery:- 02 No- 12 volt battery along with leads and terminals C/W charging dynamo and cut out fitted with suitable rating starting system. 3) Safety control: - In order to shut down the engine in the event of high water temperature emergency control switch shall be provided. It shall also be fitted with ant vibration pads, cold starting aid, safety control for low lube pressure etc. 4). Radiator:- Suitable Size C/W hoses, clamps etc. C) Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil					
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1) Speed: - 1500rpm 2) No. of cylinders: - 04 3} Aspiration: - TC 4) Cooling system;-water cooling 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank:-suitable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and fitted with inlet/outlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery:- 02 No- 12 volt battery along with leads and terminals C/W charging dynamo and cut out fitted with suitable rating starting system. 3) Safety control: - In order to shut down the engine in the event of high water temperature emergency control switch shall be provided. It shall also be fitted with ant vibration pads, cold starting aid, safety control for low lube pressure etc. 4). Radiator:- Suitable Size C/W hoses, clamps etc. C) Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil			_	39	
2) No. of cylinders: - 04 3) Aspiration: - TC 4) Cooling system;-water cooling 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank:-suitable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and fitted with inlet/outlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery:- 02 No- 12 volt battery along with leads and terminals C/W charging dynamo and cut out fitted with suitable rating starting system. 3) Safety control: - In order to shut down the engine in the event of high water temperature emergency control switch shall be provided. It shall also be fitted with ant vibration pads, cold starting aid, safety control for low lube pressure etc. 4). Radiator:- Suitable Size C/W hoses, clamps etc. C) Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil		Specifications: -	01 Job	854085	854085
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	p	roof with IP-53 degree of protection. The panel shall be with meters			•
the above components shall be properly mounted duly wired and shall be of					

	D) Miscellaneous:-Technical literature and catalogue is to be provided. E) Earthing: The job shall include complete earthing of the DG set as per OEM standards.			
1.47	Earth work in excavation by mechanical means (hydraulic excavates) in Assay	90		
	for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and f 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 of excavated earth and disposal of surplus excavated earth as directed, within lead of 50 metres:-	or 30	300	900
1.40	All kinds of soil			1
1.48	Providing and laying of soling stone	06	740	444
149	Providing and laying in position cement concrete of specified grade including the cost of remaining but excluding the cost of remaining the cost of remain	Cum		
	curing but excluding the cost of centring and shattering. All works up to plint level with 1:2:4 mix (1 cement, 2cores sand, and 4 graded stone aggregate 20mm nominal size). (DG set base and motor lowering structures)	h 00	7000	2100
1.50	Centring and shattering including structures, propping etc. and removal of from work for foundation, footings, base for columns.	n 60 SM	310	1860
1.51	TOOL KIT For Maintenance: - The Tool Kit for maintenance shall comprise of the	-		
	following and all the items as mentioned below shall be of: Providing of tool kit consists of following items			
	I. Double ended Spanner (Chrome plated) 02 sets complete			714
	11. Double ended Ring spanners chrome plated 02 sets complete			1 1
	iii. Allen key set black finish 02 sets complete iv. Combination Pliers insulated with thick C.A sleeve; size in mm 16 5, 210, 255	1.		
	Cach - 02 No.	1		
	v. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No.			
	vi. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No.	01 Job	28840	2884
	vii. Insulated screw Drivers			
	viii. Hammer with handle weight - 110 mg, 340 gm, and 600 gm -each - 1No.			
	ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01 No. x. Electric Multimeter = 1No	1		8 1
	xi. Digital multimeter = 1No.			1 6 5
	xii. Digital Clamp tester capable to measure up to 400A - 1 No.			
	xiii. Hack saw frame with hack saw blade - 01 no. xiv. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) - 01 No.			
	STAGE 2 ND			
2.01	Supply, Installation, Testing & Commissioning of Open Well Pumping Units as		T	
	per IS: 14220 :1994			, 1
	PUMP: - Discharge: 25000 GPH	1		
	Head: 24 Mtrs			
	Type of pump: Open well Submersible Pump (Vertical)			. 1
	Quality of Water to be handled: clear water. Efficiency- Not less than 50%	2 - 2		
	MATERIAL OF CONSTRUCTION:			1,91
	As per IS: 14220 :1994 suitable for above parameter	151		
	Make: -: Kirloskar/KSB/Grandfoss/CRI/or equivalent standard. MOTOR: -	200		
- 1	Rating: Suitable for above parameter	02 Jobs		, ,
	Method of starting: Star - Delta.		125000	250000
	Frequency: 50Hz ± 3% Voltage: 415 ±10%			. 112
	Class of insulation: Suitable for above rating.		h .	1
	The motor shall be made of corrosion resisting materials to resist corrosion	ed"	4	
	under normal conditions and the motor shall have a name plate giving complete specifications	- No. 1		
	The job includes providing and fitting of suitable size/Dia GI nipple for		1 1-	
	pumping equipment as per site requirement. Note: The Pump Unit supplied shall be provided with the test certificate	ă ·		
1	from OEM confirming the required discharge at the given head. The head	bar -		
	and discharge given on performance curve must meet out requirement at the site of commissioning.	No.		
	Fabrication, providing and fitting of split type MS clamps10 mm thick, Length as	1 12		
02	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.	02 Jobs	1801	3602
		BUET TO		
.03	Providing and fitting of 16 Sq.mm 3-Core flat submersible copper cable	dian't		
.03	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	90 Meter		62000
03	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	90 Meter	711	63990
03	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)	90 Meter	711	63990
03	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	90 Meter	711	63990 279352

1				
	Bus bar Chamber;			
	The bus bar chamber shall be fitted at the top of the panel horizontally/vertically			
	an ought of the length, there shall be 3 Nos of phases bus har and 1 No manager	y		
	The but and I no caluling bus par. The bill have shall be air insulated and			
	made-up of high conductivity COPPER with current density of suitable ratios for			
	1 300 Ampere. All panel compartments shall be provided with suitable cable allow	1		8
	and vertical bus bar alley. Suitable segregation shall be provided in between bus	28		100
1	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	h	1	100
1	accordance with 13-3/5 specifications. Electrical clearances shall be maintained			
	1 between phases, neutral and body as per standards			
	main Circuit Breaker (Incomer MCCB):			
	Qty. = 02 Nos No. of poles = 4 Nos		1	
	Current Rating = 200 Amp.	v		
	Rated operational voltage = 415 V + 15 %			
	Rated Irequency = 50+/-3%Hz			
	Ambient temperature = 40° C		=	- 87
	Ultimate S.C Breaking Cap at (415V AC, 50 Hz) = 50 KA	1	1	0 -0
	Type of release = Thermal-Magnetic			
- 1	Change over Switch: Qty. = 01 No.			- 4
1	Rating = 200Amp			-
	Type = Front operated, on load, 4 pole, 400 ±15%V, 50 ± 3%Hz.			
	Motor Back-up Protection MCCB:			
	Quantity = 2 Nos.			
	Poles = 3 Nos			1 4
	Rated Current -100 A Rated operational voltage = 415 V ±15 %			
	Rated operational voltage = 415 V ±15 % Rated frequency = 50 ± 3% Hz			1.0
	Ambient temperature = 40°C	176		L 3/43/
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA			All and
	Starters:-	1		
	Fully automatic star delta starters. Power Specs = 3 Φ, 415 ± 15% V, 50 ± 3 % Hz.	7.8.1	1	
	Relay range= 36-60 A			
	Coil Voltage = 380 v			- 1
	Protection = single phasing, phase Reversal, phase unbalance			
	Qty. = 2 No's		-	
	Auxiliary MCCB for Heating/Lighting:		1.5	
	Circuit Breaker = MCCB (Outgoing) Qty. = 1 No.		-	
	No. of poles = 4	1	4	
	Current Rating = 32 Amp.			
	Rated operational voltage = 415 V + 15 %			
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36KA			1
	Motor Protection Relay:	=	1	
	Digital Motor Protection Relay with LCD Display for 3-phase supply with following protections suitable for the Modular Control Panel:-			
	Protections = Thermal Overload with pre-alarm, Short Circuit Phase Loss	L.		
	Unbalance, Phase reversal, Under Current, Prolong starting, Locked Rotor, Earth	10		
	fault and over current.			
	Qty. = 02 No's	- 1		
	Besides above, M-power module for mobile starting for submersible motor 1P/3P 3 wire Quantity - 02 no.	1 1	15.3	44.4
	IVRS Languages – English, Hindi, Suitable Region- North India		E .	48.7
	The panel shall be provided with phase indicators (03 N0) and digital ammeter of		=	
İ	range 0-63 A (02 Nos) digital voltmeter of range 0-500 V (01 No) and digital			the Late
	frequency meter (01 No). The enclosure of the panel shall be of excellent fit and		9.1	
	finish, corrosion resistant and powder coated with gliding hinges for smooth and		_ = =	
	noiseless movement of windows having advanced locking arrangements. Preferably make of constituent parts: ABB/Schneider/L&T/C&S			
2.05	Providing, fitting, testing and commissioning of 75 KVA voltage stabilizer as per		-	2.3
	specifications below:	L	1	0.3
	Capacity: 75 KVA, 3-phase		e	100
	Type of voltage controller: Manually operated copper wound, 3-phase, AC power			100
	supply multi- step.			4 4 4
	Type of Regulator: Double plate type with electrolytic copper contacts.			100
	Input voltage: 150 volts. (3 phase)			7
	Output voltage: 415 ±10% volts. Frequency: 50 ±3 C/S.			
	Windings: Electrolytic grade copper of adequate section, vacuums impregnated	00.1	160	
	and Oven dried.	02 Jobs	163721	327442
	Insulation: Fibre glass insulations of tested parameters.			
	Cooling: Naturally Oil cooled			
	Temp. Rise (Max): 30°C above ambient	=		
	Mounting: On Uni-directional wheels.	-		
$\sim V$	Correction rate: 30 volts per step Wave form distortion: virtually nil	No.	- 1	
WW.	Duty cycle: 100% continuous.		1	
1110	Enclosure: MS sheet enclosure in pressed CGR Sheet powder coated with	100		
	Addiators of adequate thickness.	7	1312	
The state of the s	11.411,122.2			

/				
	Core laminates: High grade, low eddy loss, grain oriented silicon steel or CRG core Load: Three phase induction motor load. The voltage stabilizer shall be capable to withstand load 10% above maximum load for 02 hour operation. The voltage stabilizer shall have T-oil level indicator gauge preferably glass type tube or otherwise visible to naked eye. The top of the container shall have a display panel for housing 02 numbers voltmeters (0-500V) along with 4-way selector switch and set of neon indicators for incoming and outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade with 62 dielectric value is to be provided and filled up to top level. The T-Oil of above grade should be provided in separate barrels and filled at site up to top level. NOTE: The voltage Stabilizer shall be accepted with manufacturers duly stamped test certificate and shall have name plate with specifications, name of manufacturer and name of Water Supply Scheme			
2.06	Providing and Fitting of 3.5-Core, 70 Sq. mm XLPE, and 11KV grade Armoured Aluminium 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 from changeover panel to modular panel. The job also includes Providing/Fitting of Aluminium thimbles of various sizes as per site requirement including crimping and taping.	60 Mtrs	668	40080
2.07	Providing and fitting of 200mm Dia G.I flanged Rising Main at site. The Pipe shall be hot dip Galvanized, class C (6 mm thickness) confirming to IS 3589-2001. 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. The work includes the cost on account of earth work excavation by mechanical means of all sorts and backfilling for laying the raising main underground as per site requirement.	100 Meter	5134	513400
2.08	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 (6 mm thickness) 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 -200 mm	01 Job	9730	9730
2.09	Fabrication, Providing and fitting of Y- junction / Manifold having length of each arm as per site requirement but not less than 2½2½2 to be fabricated out of hot dip galvanized G.I, (6 mm 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 using Advani/Esab/L&T-SS Bond make electrodes 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 -200mm	O1 Job	17000	17000
2.10	Fabrication, Providing and fitting of Tail piece as per site requirement by Cutting of hot dip galvanized G.I, (6 mm 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 using Advani/ Esab/L&T-SS Bond Make electrodes to form strong welding joint by using DC arc welding. The job further includes Providing/Fitting of nuts and bolts, Rubber Insertion Gaskets to be used between flanged joints.	07 Jobs	2265	15855
2.11	Fabrication, Providing and fitting of long radius bend out of Class C GI pipe (6 mm 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-200mm	08 Jobs	8063	64504
2.12	Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) 200 Dia 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	02 Jobs	42392	84784
2.13	Providing and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate / sluice valves 200 dia mm as per 1514846 for regulating	03 Jobs	34310	102930

1				
	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	l, l		
	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			
Tues.	wheel. Cost on account of Nuts, bolts, gaskets, etc. required for the job is	:		
100	included in the scope of work.			-
1 2.0	The job includes providing and fitting of 02 nos. M.S flanges perfectly adaptable			14
	to the inbuilt flanges of the valve which shall be fitted with rising main of the		l	
	pumping unit at appropriate spots as per site requirement. The job includes			1.54
	the cost on account of P/F of nuts, bolts and gasket required for the job.			
	Preferably makes: VAG/AVK/Sigma Flow			
2.14	Fabrication of gantry mechanism, bed for staff and base frame and allied works			7.7
	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]		- 1
	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.	2000 Kgs		
Ì	The quantity of the steel members like ISMB 200/150/100, MS chequered sheet,	2000 Kg3	124.85	249700
	ISMC 100, ISMC 75, ISA 50X 50 X5mm /40X 40 X 6mm, Square bars, railing			
	pipe, MS pipes, angles, tubes and allied structural steel members shall be used	1		
	as per directions of site engineer, same may vary as per site requirement as it is	1		
	conditional to civil structures being constructed.			
2.15	Providing, installation and testing of manual type triple spur gear chain pulley		- 1	
	block along with monorail geared travelling trolley having following features			2.00
	Gears: The hoist shall have precision machine case Hardened alloy steel gear	1 1		
	mounted on bearings and housed in a dust proof gear box. The lubrication of	1 1		
	gears should be of high viscosity and temperature for longer life of gears.			1
	Load Chain: The load chain be made of high tensile alloy steel having wear			
	resistance and greatest mobility. The chain should be accurately collaborated,			1
	tested and have adequate in built factor of safety for safer operation.	01 7-5		100
		01 Job	44473	44473
	Load chain wheel: the load chain well should be double ball bearing supported			
1	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			177
	i. Make = Indeff / Pull lift	1		
	3.50			
	ii. Capacity = 2 ton	1		
	Iii. No. Of load chain falls = 2 iv. Min. Height of lift = 6 M	1		1 10
2.16	- Marian Mar			N.
2.10	Supply, installation, Testing & commissioning of 950VA Full Sine wave power			15)
	inverter including Providing / Installation of 12V, 180 AH Automotive inverter			
	Battery with trolley and cover, with 2-core 4 mm2 Cu (25 m) wiring as per site	01 Job	34053	34053
	requirement along with other accessories like SS-Combine (02 No's), 3-pin	1		
	plugs etc. of reputed make for proper fitment and installation of the item.	1		
0.17	Make: Exide/Luminous/Amaron			
2.17	Illumination of Premises:	1 1	200	1 . 1200 50
	Providing / erection of 9 Mtr long Hot Dip Galvanized octagonal pole (single	1		
	Section) with bottom 150mm, top 75mm wide, thickness 3mm with 70	1 1		
i	Microns Zinc coating having inside arrangement for providing of power	1		1,
1	connection along with following items.	1		
	1) 3 Way Terminal Connector 20 Amp.	1		
	2) 3 No MCB 8 Amp.			
	The job includes fabrication, providing and fitting of three arm GI structure at the	01 Job	22893	22893
	top having 120° angle between arms and each arm having 15° inclination with		22093	22893
	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		1	
	pole is mounted on 1:2:4 Cement concreting of size not less than 2'x2'x6" using		1	
1	04 No anchor bolts of required size not less than 7" in length. The complete job		1	
	includes earthing in GI Electrode as per relevant IS Code			4.66
2.18	Providing, installation, testing and commissioning of area lighting 120 Watt LED			11.4
	(Street Light Type) on top of octagonal pole having following specifications:			
B	Input: 90-210 Volts			
1	Power Factor: >0.8			
1	Colour Temperature: 4K - 6.5K Beam Angle: 120* - 170* Lumen >12000	03 Jobs	9486	28458
1	Operating Temperature: -20°C to 60°C		3400	20700
1	The LED is pressure die cast aluminium housing with power coated finish and		11	
1	having Ingress Protection up to IP-68.		1	
1	The LED is properly fitted on the arm of the pole and connected to the copper		1	
0.10	wire as provided in the high mast pole			
2.19	Providing and installation of Junction Box with DP 32 A MCB to serve as Main	01 7-1		2,414
1	switch for LED Lighting. The job includes making of electric connection to the	01 Job	2227	2227
~	circuit.			Quite 1
	Providing and Fitting of 2-Core, 10 Sqr mm XLPE, and 1.1KV and 11KV grade	50 1/2		
16 / M2	Armoured Aluminium Cable of various sizes conforming to IS: 7098 part 1st as	50 Mtrs	162	8100
TAN-	service line from the HT transformer to control panel including necessary			
0				

	thimblings, crimping, taping etc. To be fitted from auxiliary MCCB of panel main junction box of octagonal pole.	to		1
2.21	a) Providing of good quality hedding Control			
	I) Mattress with warm cover of size 6'x3' (6Kg) white cotton-02 No ii) Quilt with warm cover of size 5'x8' (6Kg) white cotton-02 No			
	iv) Single bed warm blankets with one sided Day, on the		1	
	The filling material for mattress, quilt and pillow shall be of good quality white cotton		1	
				-4.1
	b) The job also includes providing of pressure cooker 5ltr (02 Nos), Steel patella (utensil) 5ltrs (02 Nos), cooking beater (01 Nos)	01 Job		
		01000	39619	3961
	and a capacity to 1 wol plactic bucket to litera and the literature			T _w
	, see Brasses (UU NOSI, SIPPI Plates unth large annual to 1, 100		1	
1	Job and midules providing of therms sool 15 - 101 -1			
	matting of 15'x12' size. The job also includes providing of unbreakable Plastic Chair table set consisting of chairs 04 New 1		-	9
	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	
2.22	Providing, laying & fixing with adhesive/bonding material of insulation rubber mats on the floor of the purpose between the control of the purpose between the cout of the purpose between the control of the purpose between the			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	mats on the floor of the pump house, covering area around electro- mechanical		1	
	To successful the life of the workman due to marchia			Y
1	be and a short circuit. The ilour surface shall be made good & shall be	14	194	- 1
- 1	and dust, grease, foreign material & moisture free. The mote shall be as not	I OO MIT	1205	7230
- 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1		1200	1200
	(Synandia in electrical purpose) Thickness: - 25mm Size: - 1M wide The			
- 1	rabbet mats stiall be accepted with manufacturers test certificate		1	
2.23	Make . Syou / Duniop			_11_
	Providing and fitting of 19 mm thick multi-layered ply sheet of size 6 x 3 feet, 02 No's including cutting. fixing all complete including	36 Sqft		-89
	No's including cutting, fixing all complete including painting of the play sheet by one coat of primer and two coats of enamel paint	oo oqit	154	5544
2.24	Supply, Installation, Commissioning and creation of pole mounted, outdoor	E C		
- 1	type 100 KVA capacity Level II Electric Sub Station as per the amendment No.	-		7 4
	4 March 2021 to 15: 1180 (Part 1) 2014 (Fourth Revision)			, the
	Type: HT/LT Transformer			
ĺ	Type of cooling: ONAN. Operating conditions:			
1	Input = 11000 volts			
	Output =433 volts AC supply in 3- phase. Terminals:			
	Input=3 No. HT bush rods with insulators, washer, nuts etc. Output=4 No. LT bush rods switch insulators, washers, nuts etc.			
	Core: The core shall be of high permeability to reduce core losses and the strips			
	shall be of suitable size and gauge.			
	Transformer Coils: Suitable number of HT and LT coils in each leg of the core			
	- and it is to the cold.			
	The transformer coils shall be fabricated out of superior quality Aluminium			
	wire/strips properly wound. The HT transformer is completely filled with switchle	01		
	wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads	01 Job	220442	220442
	wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved.	the second secon	220442	220442
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25 Ft t26 St	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate. Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air areak switch, outdoor type, triple pole, suitable for vertical installation, single greak provided with locking arrangement at both ON and OFF position consistion.	Job 200 Kgs		
25 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate. Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single treak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure begates.	200 Kgs	123	24600
25 Ft t 26 S b b o o a	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the dequipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate. Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm die OU singles.	Job 200 Kgs		
25 H 11 s 26 S b b	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with lastest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate. Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe onforming to IS 1818 1961, 06 No. of insulators, rated voltage 1150/2004	200 Kgs	123	24600
25 Ft t26 Sb book acc	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air bracks witch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp complete as per IS specs	200 Kgs	123	24600
25 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air brackets switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp complete as per IS specs upply, Installation, Testing and commissioning of 11KV polymer fuses Set Now.	Job 200 Kgs 02 Jobs	123	24600
25 It to 00 a c c c c c c c c c c c c c c c c c	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. WOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting if HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp complete as per IS specs upply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn and 3-phase 200 A suitable for vertical installation.	200 Kgs	123	24600
225 Ft t t 226 S b b c c c c c 227 S G 28 S	The transformer coils shall be fabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. WOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate. Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting if HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe onforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp omplete as per IS specs upply, Installation, Testing and commissioning of Ganless Surge arrestor etation upply, Installation, Testing and commissioning of Ganless Surge arrestor etation.	Job 200 Kgs 02 Jobs 01 Set	123 11730 4983	24600 23460 4983
25 It to a c c c c c c c c c c c c c c c c c c	The transformer coils shall be tabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the requipment. WOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. Gl pipe onforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp complete as per IS specs upply, Installation, Testing and commissioning of Gapless Surge arrestor station apply, Installation, Testing and commissioning of Gapless Surge arrestor station apply, Installation, Testing and commissioning of Gapless Surge arrestor station apply.	Job 200 Kgs 02 Jobs	123	24600
25 H b b c c c c c c c c c c c c c c c c c	The transformer coils shall be tabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the equipment. NOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T installation. Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate. Providing and fitting G.I. Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.). Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with bearings, operating handle and 2 length of 32mm dia. Gl pipe onforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp complete as per IS specs upply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn ap 3-phase 200 A suitable for vertical installation. upply, Installation, Testing and commissioning of Gapless Surge arrestor station alass, 10KA, 9KV, LA With polymer housing, Station Type. upply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN, lighting impulse 75KV Positive and 80 KV Negative.	Job 200 Kgs 02 Jobs 01 Set	123 11730 4983 7754	24600 23460 4983 7754
25 II	The transformer coils shall be tabricated out of superior quality Aluminium wire/strips properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jell crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. The scope of work shall include obtaining of necessary inspection/clearance certificate from the concerned Department for the requipment. WOTE: The OEM shall be CPRI certified and equipment's supplied shall be provided with test certificate confirming the rating and standard of H.T/L.T Distribution Transformer. The testing and Commissioning of the equipment shall be completed only after obtaining above certificate Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps (For ransformer bed, taping point, brackets of poles etc.) Supply, Installation, Testing and commissioning of Polymeric Gang operated Air reak switch, outdoor type, triple pole, suitable for vertical installation, single reak provided with locking arrangement at both ON and OFF position consisting of HT post double insulator, copper or copper alloy high pressure heavy contact seembly, rod with bearings, operating handle and 2 length of 32mm dia. Gl pipe onforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200 Amp complete as per IS specs upply, Installation, Testing and commissioning of Gapless Surge arrestor station apply, Installation, Testing and commissioning of Gapless Surge arrestor station apply, Installation, Testing and commissioning of Gapless Surge arrestor station apply.	200 Kgs 02 Jobs 01 Set	123 11730 4983	23460 4983

	accessories .wherever required the job further includes G.I wire earthing of pole as per REC standard.	Jobs			
2.31	Providing/Fitting of Galvanized nuts, bolts of various sizes as per site requirement for fitment of electric substation, poles etc.	20 Kgs	142	2840	
.32	Providing/Fitting of Danger Plate with clamps	04 Jobs	153	612	
2.33	Providing and fixing G.I Barbed wire as anti-climbing devices.	04 Kgs	136	544	
2.34	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 and 7/3.15 mm dia. G.I stranded wire complete.		4922	19688	
2.35	Painting of poles by Red oxide		306	612	
2.36	Painting of poles by Aluminium paint	02 Ltr	510	1020	
2.37	Providing/Laying of ACSR conductor 0.05 as per relevant IS code	150 Mtr	60	9000	
2.38	Providing and fitting of PG clamps.	06 No's	421	2526	
2.39	grade with cross sectional area 3x35.			14724	
2.40	Providing/Fitting of 11 KV cable termination kit for connecting 35 Sq mm XLPE cable (ABC type) with the existing HT line near tapping point and HT transformer	04 No's	8994 35976		
2.41	Providing/Fitting of LT Distribution box for H.T Transformer with 100 Ampere, 36KA MCCB For incomer and SFU for outgoing circuits. (For 100 KVA Substation)	01 Job	39422	39422	
2.42	Providing and fitting of three phase, 4 wire commercial LT Prodigy Meter with all allied Accessories and fixtures.	01 Job	29000	29000	
2.43	Providing, Installation of earthing for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per IS: 3043. The job includes Auguring of bore of required Dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards. Safe earthing electrode size: 80 mm Dia Length: 2000 mm Back fill compound: 30 kg Providing, Installation, Testing & Commissioning of 415 ±5%V (output), 3 phase	04 Jobs	10462	41848	
	Water cooled 50 KVA Diesel Generator set as per IS 8528 (2018) for engine and IEC/IS 60034-1 for alternator suitably assembled and fitted in a pollution free acoustic enclosure/canopy of required size as per Ministry of Environment protection rule 1986 read with latest amendments. The DG Set is required to be fitted and tested on load at site The D.G Set shall have the following technical specification. Besides the above works the D.G set shall be provided with 12 V, 150 AH Lead acid battery of reputed make fitted inside the D.G set Canopy along with necessary accessories and battery charger of required capacity. The job also includes the cost on account of HSD and skilled operator required for operation of D.G set for a period of 10 hours continuously during its testing and commissioning of D.G set at site. The capacity of the D.G set is given below: A) ALTERNATOR The alternator shall be self-excited. Self-regulated for desired rating. The				
	alternator shall be fitted with high performance AVR and suitable for continuous and trouble free operation. SPECIFICATIONS 1) Rated Output at above Site Conditions: 50 KVA				
	2) Rated Speed:- 1500 rpm 3) Efficiency:-88.8%	01 Job	693020	693020	
	4) Voltage:- 415 V at 50 Hz B) DIESEL ENGINE (Prime Mover) The engine shall be diesel driven to develop requisite BHP at 1500 rpm for the alternator rated as above at an altitude of 1600m AMSL with ambient temperature ranging from -15 'C to + 40 'C under 60% humid conditions. Specifications:- 1) Speed:- 1500rpm 2) No. of cylinders:- 04 3) Aspiration:- TC 4) Cooling system;-water cooled 5) Method of start: - 12 volt electric start. The engine shall be fitted with following accessories. 1) Fuel tank:-suitable capability for twelve hours continuous running on full load. The fuel tank shall be floor mounted type made of M.S sheet duly painted and				
M	fitted with inlet/outlet return connections, air vent, drain valve, level indicator and fuel pipes 2) Battery:- 01 No 12 volt battery along with leads and terminals C/W charging dynamo and cut out fitted with suitable rating starting system. 3) Safety control: - In order to shut down the engine in the event of high water temperature emergency control switch shall be provided. It shall also be fitted	1			

with ant vibration pads, cold starting aid, safety control for low hube pressure etc. 4). Packalitors: Suttibule Size C/W hoses, clamps etc. C] Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil gauge, Temperature and pressure gauge, Speedometer and hour meter etc. All the above components shall be properly mounted duly wired and shall be of reputed D] Miscellaneous:-Technical literature and catalogue is to be provided. Elearthing: The job shall include complete earthing of the DO set as per OEM standards. 2.45 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 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 1.5 m in width) and for shafts, wells, cesspits and ramming of bottoms lift upp 1.5 m, including getting of sides and ramming of bottoms lift upp 1.5 m, including getting of sides and ramming of bottoms lift upp 1.5 m, including getting of sides and ramming of bottoms lift upp 1.5 m, including getting of sides and ramming of bottoms lift upp 1.5 m, including getting of sides and ramming of bottoms lift upp 1.5 m, including getting of sides and ramming of bottoms lift upp 1.5 m, including getting of 50 meters. 2.46 Providing and laying of soling stone 2.47 Providing and laying of soling stone 2.48 Centring and shattering including strutting, propping etc. and removal of from nominal size). 2.48 Centring and shattering including strutting, propping etc. and removal of from nominal size). 2.49 ToOL KIT For Maintenance: - The Tool Kit for maintenance shall comprise of the following and all the t						
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: All kinds of soil 2.46 Providing and laying of soling stone 2.47 Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shattering. All works up to plinth level with 1:2:4 mix (1 cement, 2cores sand, and 4 graded stone aggregate 20mm nominal size). 2.48 Centring and shattering including strutting, propping etc. and removal of from work for foundation, footings, base for columns 2.49 TOOL KIT For Maintenance: -The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items 1. Double ended Spanner (Chrome plated) 02 sets complete ii. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 205 each - 02 No. vi. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 make - 02 No. vi. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make - 02 No. vii. Haammer with handle weight - 110 mg, 340 gm, and 600 gm -each - 1No. ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01 No. xi. Digital clamp tester capable to measure up to 400A - 1 No. xii. Hack saw frame with hack saw blade - 01 no. xiv. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) 01 No.		c) Control panel: - It shall be fabricated out of steel sheet of desired thickness, pre-treated and Aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection. The panel shall be with meters MCCB/MCB, Push buttons, Pilot Lamps, starting switch with keys, Lube oil gauge, Temperature and pressure gauge, Speedo meter and hour meter etc. All the above components shall be properly mounted duly wired and shall be of reputed * make. D) Miscellaneous:-Technical literature and catalogue is to be provided. E) Earthing: The job shall include complete earthing of the DG set as per OEM standards.				
2.47 Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shattering. All works up to plinth level with 1:2:4 mix (1 cement, 2cores sand, and 4 graded stone aggregate 20mm nominal size). 2.48 Centring and shattering including strutting, propping etc. and removal of from work for foundation, footings, base for columns 700 TOL KIT For Maintenance: - The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items 1. Double ended Spanner (Chrome plated) 02 sets complete ii. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Nous ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iii. Nous ended Ring spanners chrome plated 02 sets complete iii. Nous ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iii.	2.45	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:-		300	6000	
curing but excluding the cost of centring and shattering. All works up to plinth level with 1:2:4 mix (1 cement, 2cores sand, and 4 graded stone aggregate 20mm nominal size). 2.48 Centring and shattering including strutting, propping etc. and removal of from work for foundation, footings, base for columns 2.49 TOOL KIT For Maintenance: - The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items I. Double ended Spanner (Chrome plated) 02 sets complete ii. Allen key set black finish 02 sets complete iii. Allen key set black finish 02 sets complete iiv. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 205 each - 02 No. v. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each - 02 No. vi. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make - 02 No. vii. Insulated screw Drivers viii. Hammer with handle weight - 110 mg, 340 gm, and 600 gm -each - 1No. ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01 No. x. Electric Multi-meter - 1No. xi. Digital multi-meter - 1No. xii. Digital Clamp tester capable to measure up to 400A - 1 No. xiii. Hack saw frame with hack saw blade - 01 no. xiv. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) 01 No.	2.46	Providing and laying of soling stone		740	2220	
work for foundation, footings, base for columns 2.49 TOOL KIT For Maintenance: - The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items 1. Double ended Spanner (Chrome plated) 02 sets complete ii. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iiv. Combination Pliers insulated with thick C.A sleeve; size in mm 16 5, 210, 255 each - 02 No. v. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each - 02 No. vi. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make - 02 No. vii. Insulated screw Drivers viii. Hammer with handle weight - 110 mg, 340 gm, and 600 gm -each - 1No. ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01 No. x. Electric Multi-meter - 1No. xii. Digital Clamp tester capable to measure up to 400A - 1 No. xiii. Hack saw frame with hack saw blade - 01 no. xiv. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) 01 No.	2.47	curing but excluding the cost of centring and shattering. All works up to plinth level with 1:2:4 mix (1 cement, 2cores sand, and 4 graded stone aggregate 20mm	07	7000	49000	
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Grand Total	2.49	following and all the items as mentioned below shall be of: Providing of tool kit consists of following items I. Double ended Spanner (Chrome plated) 02 sets complete ii. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iv. Combination Pliers insulated with thick C.A sleeve; size in mm 16 5, 210, 255 each – 02 No. v. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No. vi. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. vii. Insulated screw Drivers viii. Hammer with handle weight – 110 mg, 340 gm, and 600 gm –each – 1No. ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each – 01 No. x. Electric Multi-meter = 1No. xii. Digital Clamp tester capable to measure up to 400A - 1 No. xiii. Hack saw frame with hack saw blade – 01 no.	O1 Job	28840	28840	

(Rupees One Crore Ninety Eight Lacs Eighty Two Thousand & Thirty Nine Only)

(Er. Prithi Pal Singh)
Superintending Engineer,
Jal Shaki PHE Mechanical Circle North,

Srinagar.

Annexure "B" to allotment order No: PHE/MCN/JJM/ 02 of 07/2023 dated: // -07-2023

GENERAL TERMS AND CONDITIONS

- O1: Time of Completion: Time of completion shall be 120 (One Hundred Twenty) days and reckoned from 7th day after the issuance of formal allotment letter by the Department. In the event of the contractors failing/declining/neglecting or delaying, the work shall be got executed through any other agency at the risk and cost of the original contractor.
- agency at the risk and cost of the original contractor.

 Advance Payment: No mobilization advance or advance payment shall be made in favour of the
- Agreement: The contractor shall draw an agreement with the Department within seven days from the date of issue of this allotment order. Contractor's failure to execute such an agreement in time shall not however, prevent this contract from being enforced against the contractor and the conditions laid down in the NIT/allotment order shall hold good even before drawl of formal agreement and the contract shall be complete and binding upon the contractor.
- Defect Liability Period: If during the period of 18 (Eighteen) months (which shall be considered as the defect liability period) reckoned from the date of actual completion and handing over of the structure any defect is found in the work or in the part thereof which may have been caused by the bad workmanship, use of inferior material or otherwise or if in the opinion of the Chief Engineer or Engineer Incharge any repairs are required to be made in any work done, the contractor shall be liable to remove the defects or make repairs at his cost and expenses within a period of thirty days from the issue of the notice by the Engineer in charge, in the event of the failure on the part of contractor to remove these defects or make the repair within a stipulated period. The engineer in charge may get the defects removed or repairs made through other agency and cost thereof shall be recoverable from the security deposit or any amount due to the contractor. The defects or repairs shall be recoverable from the amount due to the contractor the defects or repairs shall be deemed to have been removed/made when the Chief Engineer/Engineer in charge certifies that the defects have been removed or the repairs have made to his entire satisfaction.
- O5: Disposing excavated material: All excavated material shall remain the property of the Department. The Contractor shall ensure that no excavated material which is suitable for and is required for re-use in the Works is transported unless so ordered by the Engineer-in-Charge.
- O6: Consignee/Paying Authority: The consignee/paying authority shall be the Superintending Engineer, Jal Shakti (PHE) Mechanical Circle North, Srinagar.
- O7: Release of Performance Security: Performance security shall be released after 18 (Eighteen) Months beyond successful completion of trial run/report of concerned Assistant Executive Engineer (After fulfillment of all contractual obligation).
- Inspection and Testing: Before dispatch from the works 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 as per details given below. The charges for the inspection shall be borne by the department. However, the firm shall make payment to the Inspection Agency (in case of 3rd Party Inspection) which shall subsequently be reimbursed by the department. The firm shall intimate the department and the Inspecting Agency/Authority in advance regarding the readiness of the equipment for dispatch and shall furnish test certificates.
 - The firm shall 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 concerned Assistant Executive Engineer, 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 his representative for inspection of the goods at the works 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 & machinery are being obtained.
 - In case of Sub-Station and power/feeder lines, the firm shall have to obtain an Inspection clearance certificate from the concerned Inspection Division of the Power Development Department besides power connection from concerned Electric Division of the concerned Area.
 - The list of Electro-Mechanical equipment in which third party inspection from M/S CEIL/ RITES is to carried on are:-

	o i		
01	DG Set	>50 KVA	
02	Pumping unit	>40 HP (Horizontal & Vertical)	
		>30 HP (Submersible Pumping unit/Open Well)	
03.	Valves	>150mm Φ	
04.	Pipes	>80mm Φ and above 200 Mtr. in length	
05.	HT Transformer	>100 KVA	
\ 06.	Voltage Stabilizer	>100 KVA	



For items other than above, Test Certificates from OEM shall have to be provided at the time of Supply of the item. At the time of installation, the firm will provide Third Party Inspection report of machinery at works of respective OEM'S which shall be undertaken only for equipment as mentioned in above clause. For rest of the equipment, test certificate along with the warranty documents shall be furnished by the contractor.

Third Party Monitoring: The allotted works shall be subject to check by the third-party monitoring 09: agency appointed by the Department in Kashmir. The agency shall check the quality of works executed by the firm, quality of materials used for construction and quality of machinery installed in each scheme. The TPIQM's 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.

Transit Insurance: Prior to dispatch, the ordered equipment shall be insured through a Nationalized 10: 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 borne by the firm. The department shall pay no extra charges on this account.

Mode of dispatch: The firm shall dispatch the material through a reputed road transport agency direct 11: from dispatching station up to destination. The material shall be suitably transported for which the firm shall take due care keeping in view the limitation for maximum size and weight.

Jurisdiction of Court: All disputes pertaining to this contract shall be subject to the jurisdiction of the 12: Hon'ble Court of Union Territory of J&K and Ladakh only.

Termination of Contract: The department reserves the right to terminate the contract at any stage in 13: case the performance of the firm is found unsatisfactory in terms of any or all clauses of the NIT/Contract/Agreement.

Tax, Duties Levies etc.: The rates offered are firm and final for payment inclusive of GST etc. and 14: incidental charges of any kind shall be the responsibility of the firm.

Terms of payment: 15:

(a) 70% payment shall be made on Supply of the ordered equipment in full as per BOQ.

(b) 20% payment shall be released after Successful, installation and testing of equipment on full load and commissioning thereof.

(c) Balance 10% shall be released after commissioning of the scheme and satisfactory performance of the equipment for a period as enunciated in warranty clause below. However, the balance amount can be released against furnishing of a Bank Guarantee for an equivalent value valid for 18 (Eighteen) months including the expiry of the warranty period of the contract.

Warranty: The firm shall be bound for satisfactory performance of equipment/ works for 12 months after the successful completion of trial run of 03 Months or whichever is later. If during warranty 16: period any malfunctioning/ defects arise, the firm shall have to rectify the same within a period of ten days of receipt of intimation. In case of any failure on the part of the firm 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 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 03 Months during which the firm will have to operate through staff provided by the 17: department & maintain the executed work to the full satisfaction of the Department. During this period, the firm shall impart training to the staff provided at the scheme by the Department.

Force Majeure: Any failure or commission to carry out the provision of the contract shall not give rise 18: to any claim by the department or firm 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.

Arbitration: Any Dispute or difference arising between the department and firm shall be dealt in 19: accordance with the Arbitration and Conciliation Act, 1996 and Rules thereof within the Jurisdiction of District Srinagar of Union Territory of Jammu & Kashmir.

Safety of Govt. Infrastructure: The bidder should ensure the safety of the water supply lines, sewer 20: 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 firm. Failing to attend immediately, the same will be got done by the Department at the risk and cost of the bidder.

Firms Risk and Insurance: All risks of loss or damage to physical property and of personal injury and 21: death which arise during and in consequence of the performance of the Contract are the responsibility of the firm.

Subletting of work: The firm shall not sublet the whole or part of the work. The firm shall not assign 22: 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.

Work under Firm charge: From the commencement of the work to the completion thereof the same 23: shall be under the firm charge. The firm 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 firm, or any of his employees, during the execution of work. The firm shall be responsible for the compensation if any, to labour under the existing labour laws of the Country.

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 firm puts a claim in writing in respect thereof before getting the certificate of final completion.

- Setting out of works: The Firm 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 25: works and for the provision of all necessary instruments, appliances and labour in connection
- Storage at Site: The firm 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 26: the purpose, the firm 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
- Watch & Ward of Works: The firm shall in connection with the work provide and maintain at his own cost all lights, guards, fencing and watching, when and where necessary or required by the Department 27: for the protection of the work or safety and convenience of the Public etc.
- Training of Departmental Staff: The firm shall arrange, at his own cost and risk, to depute at least one competent Engineer of the equipment manufacturer, to train upto twelve Departmental 28: representatives in the operation and maintenance of the equipment at site. This training shall be for duration of at least (03) three consecutive months and shall commence from the date of successful commissioning of the equipment or as may be mutually agreed upon.
- Drawing & Quality Assurance Plan: 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 29: two (02) weeks from the receipt by the consignee.

 - General Arrangement Drawings (G.A.D.) /Layout of the equipment fully dimensioned for pumps, motors, starters, shunt capacitors, panels, delivery manifold, cables etc. b)
 - Detailed circuit diagrams of LT Panels, starters, shunt capacitors etc.
 - Quality Assurance Plan of each piece of equipment to Third Party Inspection Agency and c)

No manufacturing activity shall be started by the firm without approval of the drawings for each

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

Operation & Maintenance Manuals: The firm shall supply, free of cost to the Department, 06 complete sets of operation & maintenance manuals for the Pumping Equipment. The delivery of these manuals shall be made by the firm to the Engineer alongwith the supply of equipment. The manuals 30: 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 No. in the drawings.

Cleaning Up: On completion of the works the firm 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 31: works clean and in a workmanship condition, to the satisfaction of the Department.

Power & Water Supply: The 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 32: commissioning of the equipment ordered on him. The firm shall pay for all electrical energy consumed by him for this purpose at the prevalent electricity tariff in UT of J&K. Such charges shall be paid by the firm directly to the concerned Electrical Division and the final bill shall be settled only after he gets a no outstanding certificate from the concerned Electrical Division.

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

- Liquidated damages: 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 33: 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

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. c)

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.

and/or

Forseit the performance security and blacklist the sirm.

- 34: This contract is being awarded for Supply, Installation, Testing & Commissioning of Electro-Mechanical equipments at Water Supply Scheme Arth-Churpora and its components on a holistic basis to the allotee. Any item of work that may have got omitted for whatever reason but required at site for functional completion of the Water Supply Scheme shall be executed by the allottee at no extra cost.
 - The method of measurement/specification of completed work for payment etc. shall be in accordance with the "Book of Specifications" published by the CPWD that forms basis for PS-SOR in vogue.
 - All other terms and conditions shall remain same as laid down e-NIT, SBD. (b)

No liability should be created on this account. 35:

The circular instructions issued by Chief Engineer Kashmir, Jal Shakti (PHE) Department Srinagar 36:

from time to time regarding use of MS flanges be adhered to.

In case the contractor fails to execute the work, the work shall be put to fresh tenders on the risk and 37: cost of the contractor & the excess cost if involved shall be recovered from the contractor and strict action as warranted under contractual obligation shall be taken against the defaulter.

Geo Tagged Photographic evidences of the work; pre-execution, during execution and post execution 38:

should be maintained by the agency on his own expenses. The executing agency/contractor must execute the work as per the requirements/ specifications

detailed in the relevant/applicable IS codes. All Environmental norms, labour laws and all other guidelines issued by competent authorities shall be 40:

followed in letter and spirit Any of the pipe material procured/supplied by the agency shall have to be get verified by the competent 41:

authority before utilizing the same at site.

39:

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 42: Manual for procurement of Works 2019 Government of India.

All other terms & conditions as laid down in Form No: 25 of P.W.D and the standard bidding document/e-NIT, PWD form-25, GFR-2017 and manual of procurement of works 2022 shall remain in force.

(Er. Prithi Pal Singh)

Superintending Engineer, Jal Shakti PHE Mech. Circle North,

Srinagar.