Government of Jammu & Kashmir

Office of the Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sopore Website: phekashmir.com Email ID: phe.mdns@gmail.com

No.: PHE/MDNS/DB/ 4037 - 44 Dated: 25-08-023

M/s UEE Electrical Engineers Pvt. Ltd. Shradanand Marg Delhi - 110006 B/O: Main Bazaar, Kathua, J&K-184101 👃

GST No: 01AAACU1624K1ZR

Cell No: 9899963794

Adv. Cost:	Rs 65.772 Lacs
Allotted Cost:	Rs 61.109 Lacs

Subject:

Electrical and mechanical works to be carried at WSS Guishanpora Nowpora Stage 1st and 2nd along with laying and fitting of rising main under JJM. X

Reference:

- This office e-NIT No.: e-NIT No. 07 of 2023-24, S. No, 01 issued under endorsement No.: PHE/MDNS/DB/702-14, dated: 09-05-2023.
- Authorization awarded by Member Secretary DJJM Superintending Engineer Jal 2. Shakti (PHE) Hydraulic Circle Baramulla/Bandipore HQ at Sopore issued vide No. SE/Hyd/DB/5386-89, dated: 09-08-2023.

Dear Sir,

For and on behalf of Lt. Governor of J&K U.T contract for execution of "Electrical and mechanical works to be carried at WSS Gulshanpora Nowpora Stage 1st and 2nd along with laying and fitting of rising main under JJM" is hereby awarded to your firm on the quoted/negotiated rates, as per 'General Terms & Conditions' and 'Schedule of cost and quantities' annexed herewith as under:

Annexure A: General Terms & Conditions.

Annexure B: Schedule of cost and quantities.

Encl. ___ leaves

Executive Engineer Shakti PHE Mechanical Division (North) Sopore

Copy to the:

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

2. District Development Commissioner , for favour of information.

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

4. Superintending Engineer Jal Shakti (PHE) Hydraulic Circle Blaf By HQ at Spy, for favour

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

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

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

File concerned.

al Kadal, Srinagar-190002
al Kadal, Srinagar-190002
No: 0 01AJTPR5741B1ZA
No: 0 01AJTPR5741B1ZA
No: 9419999912 / 8899941338
No: 9419999912 / 8899941338
No: 9419999912 / 8899941338
No: 9419999912 / 8899941338

Annexure "B" Schedule of cost and quantities to this office Allotment Order No: PHE/MDNS/DB/ 1037-74, dated: 25 108 100-3

iame work: Electrical and mechanical works to be carried at WSS Gulshanpora Nowpora Stage 1st and 2nd along with laying and fitting of rising main

1	Description	Unit	Qty.	Rate	Amount
E	lectrical and mechanical works				
D	Design, supply, providing, installation, successful testing and commissioning of vertical turbine				
p	pumping unit as per IS 1710 driven by VT motor for pumping water from Nallah of following				
p	parameters.				
	Site Condition			- 4	
A	Altitude = 1580 Meters/Greater (AMSL)				
A	Ambient Temperature = +40°C to - 15°C				
R	Relative Humidity = 60%	in a		1	
	Type of water = Raw water having specific gravity of unity average.				
1	•Quality of water = Raw water with silt having medium to coarse sand.				
1.	Sump/liner Bed Level = 8m/otherwise specified below from Machine floor level	1			
- 1	•Water column in liner/sump = 2 m/as specified otherwise above from sump/liner bed level	1		1	
	A.PUMP				
- 1	1.Discharge = 10000 GPH	3		1	
- 1	2.Type = Self water lubricated, VT pump, open line shaft.	. 1		1	
	3.Liquid to be handled = Raw Water				
-13	4.RPM = 1460				
- 1	5.Head = 100 Meterst			1	
	5.Efficiency = Not less than 75%				
- 1	7.Impeller = Semi-enclosed mixed flow all bronze/stainless steel				
	8.Line shaft/head shaft = Stainless steel 9.Length of each line shaft = 1 m maximum				
-11:	다. T. H. 그런 사람이 많은 사람들에 모든 사람들에 보는 그런 그 등에서 사용하게 되었습니다. 한 것 같아 있는 것 같아 있다. 나를 보고 있다.	-			
-10	10. Total length of line shaft = 10 m/as specified (excluding Head shaft)	11			
	11.Impeller shaft = Stainless steel 12.Line shaft bearing = Cut less rubber/ Neoprene rubber	1			
	procuring.	2 1			
	13.Line shaft coupling = Stainless steel	Ą.		Her con	
	14. Suction Strainer = MS fabricated				
	15.Suction Bowl/Bell mouth= Cast Iron				
ľ	15.55ction bowy cent mount cost non			1000	
		Publish X	190		
L	The Court of the C	Job	1	8,50,000.00	8,50,000
	16.Pump Bowl = Cast iron	Job	1	8,50,000.00	8,50,000
1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted	Job	1	8,50,000.00	8,50,000
1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths	Job	1	8,50,000.00	8,50,000
1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages.	Job	1	8,50,000.00	8,50,000
1 1 1 1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. B.Prime Mover	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. B.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor	Job	1	8,50,000.00	8,50,000
1 1 1 2	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. B.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC	Job	1	8,50,000.00	8,50,000
11 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. B.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3%	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 2 2 3	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. B.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous	Job	1	8,50,000.00	8,50,000
11 12 12 12 12 12 12 12 12 12 12 12 12 1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 8.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85%	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. B.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP	Job	1	8,50,000.00	8,50,000
11 11 11 11 11 11 11 11 11 11 11 11 11	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7.Class of insulation = F or above	Job	1	8,50,000.00	8,50,000
11 11 12 13 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7.Class of insulation = F or above 8.Type of duty = Continuous	Job	1	8,50,000.00	8,50,000
11 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7. Class of insulation = F or above 8. Type of duty = Continuous 9. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7. Class of insulation = F or above 8. Type of duty = Continuous 9. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage.	Job	1	8,50,000.00	8,50,000
11 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 1.Power Supply = 03 Phase, 415V+ 15% AC 1.Power Supply = 03 Phase, 415V+ 15% AC 1.Prequency = 50Hz + 3% 1.RPM = 1450 Synchronous 1.Efficiency = Not less than 85% 1.Efficiency = Not less than 85% 1.Efficiency = Not less than 85% 1.Efficiency = S. HP = Corresponding to Head and discharge but not less than 35HP 1.Class of insulation = F or above 1.Etype of duty = Continuous 1.Etype of fotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 1.Etype of rotor = suitable for above parameters. 1.Etype of the squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double squirrel cage induction in	Job	1	8,50,000.00	8,50,000
11 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7. Class of insulation = F or above 8. Type of duty = Continuous 9. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 10. GD2 = suitable for above parameters. 11. Motor thrust bearing = Anti friction ball /roller bearing	Job	1	8,50,000.00	8,50,000
11 11 12 23 24 5 6 7 7 8 9 9 11 11 11 11 11 11 11 11 11 11 11 11	17.Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 1.Power Supply = 03 Phase, 415V+ 15% AC 1.Power Supply = 03 Phase, 415V+ 15% AC 1.Prequency = 50Hz + 3% 1.RPM = 1450 Synchronous 1.Efficiency = Not less than 85% 1.Efficiency = Not less than 85% 1.Efficiency = Not less than 85% 1.Efficiency = S. HP = Corresponding to Head and discharge but not less than 35HP 1.Class of insulation = F or above 1.Etype of duty = Continuous 1.Etype of fotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 1.Etype of rotor = suitable for above parameters. 1.Etype of the squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double skewed squirrel cage induction is a single or double squirrel cage induction in	Job	1	8,50,000.00	8,50,000
11 11 12 12 12 12 12 12 12 12 12 12 12 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18. VT Pump to be designed with minimum number of stages. 18. Prime Mover 1. Type = Vertical hollow shaft, AC squirrel cage induction motor 1. Power Supply = 03 Phase, 415V+ 15% AC 1. Prequency = 50Hz + 3% 1. RPM = 1450 Synchronous 1. Efficiency = Not less than 85% 1. HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 1. Class of insulation = F or above 1. Type of duty = Continuous 1. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 1. Motor thrust bearing = Anti friction ball /roller bearing 1. Method of starting = star/delta 1. Method of starting = star/delta 1. Method be able to with stand fluctuations in voltage and should be conforming to latest S specifications. 2. Accessories	Job	1	8,50,000.00	8,50,000
11 11 12 22 23 24 25 66 77 88 99 ST 11 11 11 11 11 11 11 11 11 11 11 11 11	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18.VT Pump to be designed with minimum number of stages. 18.Prime Mover 1.Type = Vertical hollow shaft, AC squirrel cage induction motor 2.Power Supply = 03 Phase, 415V+ 15% AC 3.Frequency = 50Hz + 3% 4.RPM = 1450 Synchronous 5.Efficiency = Not less than 85% 6.HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7. Class of insulation = F or above 8. Type of duty = Continuous 9. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 10. GD2 = suitable for above parameters. 11. Motor thrust bearing = Anti friction ball /roller bearing 12. Method of starting = star/delta 15. Specifications.	Job	1	8,50,000.00	8,50,000
11 11 12 12 12 12 12 12 12 12 12 12 12 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18. VT Pump to be designed with minimum number of stages. 18. Prime Mover 1. Type = Vertical hollow shaft, AC squirrel cage induction motor 1. Power Supply = 03 Phase, 415V+ 15% AC 1. Prequency = 50Hz + 3% 1. RPM = 1450 Synchronous 1. Efficiency = Not less than 85% 1. HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 1. Class of insulation = F or above 1. Type of duty = Continuous 1. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 1. Motor thrust bearing = Anti friction ball /roller bearing 1. Method of starting = star/delta 1. Method of starting = star/delta 1. Method be able to with stand fluctuations in voltage and should be conforming to latest S specifications. 2. Accessories	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18. VT Pump to be designed with minimum number of stages. 18. Prime Mover 1. Type = Vertical hollow shaft, AC squirrel cage induction motor 1. Power Supply = 03 Phase, 415V+15% AC 1. Prequency = 50Hz + 3% 1. RPM = 1450 Synchronous 1. Efficiency = Not less than 85% 1. HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 1. Class of insulation = F or above 1. Type of duty = Continuous 1. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 1. Motor thrust bearing = Anti friction ball /roller bearing 1. Method of starting = star/delta	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18. VT Pump to be designed with minimum number of stages. 18. Prime Mover 1. Type = Vertical hollow shaft, AC squirrel cage induction motor 1. Power Supply = 03 Phase, 415V+15% AC 1. Prequency = 50Hz + 3% 1. RPM = 1450 Synchronous 1. Efficiency = Not less than 85% 1. HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 1. Class of insulation = F or above 1. Type of duty = Continuous 1. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 1. Motor thrust bearing = Anti friction ball /roller bearing 1. Method of starting = star/delta 1. The motor should be able to with stand fluctuations in voltage and should be conforming to latest S specifications. 1. Accessories 1. Each pump unit shall be provided with suitable discharge head with proper stiffening box arrangement, non-reverse ratchet, coupling etc as per standard specification besides all other	Job	1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18. VT Pump to be designed with minimum number of stages. 18. Prime Mover 1. Type = Vertical hollow shaft, AC squirrel cage induction motor 2. Power Supply = 03 Phase, 415V+ 15% AC 3. Frequency = 50Hz + 3% 4. RPM = 1450 Synchronous 5. Efficiency = Not less than 85% 5. HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7. Class of insulation = F or above 8. Type of duty = Continuous 9. Type of rotor = suitable among single squirrel cage / double squirrel cage, single or double skewed squirrel cage. 10. GD2 = suitable for above parameters. 11. Motor thrust bearing = Anti friction ball /roller bearing 12. Method of starting = star/delta 13. The motor should be able to with stand fluctuations in voltage and should be conforming to latest in the specifications. 14. Accessories 15. Each pump unit shall be provided with suitable discharge head with proper stiffening box intrangement, non-reverse ratchet, coupling etc as per standard specification besides all other accessories required for satisfactory performance and mechanical works required for installation		1	8,50,000.00	8,50,000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17. Column pipe = Mild Steel of wall thickness not less than 8mm flanged type in assorted lengths 18. VT Pump to be designed with minimum number of stages. 18. Prime Mover 1. Type = Vertical hollow shaft, AC squirrel cage induction motor 2. Power Supply = 03 Phase, 415V+ 15% AC 3. Frequency = 50Hz + 3% 4. RPM = 1450 Synchronous 5. Efficiency = Not less than 85% 5. HP = 5. HP = Corresponding to Head and discharge but not less than 35HP 7. Class of insulation = F or above 8. Type of duty = Continuous 9. Type of rotor = suitable among single squirrel cage / double squirrel cage , single or double skewed squirrel cage. 10. GD2 = suitable for above parameters. 11. Motor thrust bearing = Anti friction ball /roller bearing 12. Method of starting = star/delta 13. The motor should be able to with stand fluctuations in voltage and should be conforming to latest in the specifications. 14. Accessories 15. Each pump unit shall be provided with suitable discharge head with proper stiffening box corrangement, non-reverse ratchet, coupling etc as per standard specification besides all other accessories required for satisfactory performance and mechanical works required for installation of pumping unit at site are included in the job.		1	8,50,000.00	8,50,000

S.					//
0.	Description	Unit	Qty.	Rate	A. S
2	Size: 100 Class: C (Heavy) Providing/supplying and fitting of 150mm G.I flanged Rising Main including delivery manifold/Y junction with washout arrangement at site. The Pipe shall be hot dip Galvanized, class B confirming to IS 1239. The job includes providing and fitting of M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrode of reputed make. Flanges (as per IS 6392/1997 Table:17) Thickness shall conform to IS 6392 Part 1st Table-17. The flange welding shall be carried out in double layers using reputed make electrodes to form strong welding joint. Welding Electrode DC Arc Welding using welding electrode having diameter not less than 4mm. Nuts and Bolts Nuts and Bolts (conforming to IS:1363 Part 1st) Rubber Insertion Gaskets Rubber Insertion Gaskets (conforming to IS: 638/79) to be used between flanged joints. The quantity may vary as it is conditional to civil structure being constructed/as per site requirement.	Meter	30	2,445.00	73,350.00
	Dia = 100 mm Providing and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate/ sluice valves as per IS14846 for regulating the water supply outside the pumping units. The body and bonnent of the valve shall be of ductile iron, wedge with fully vulcanized EPDM rubber(Approved for drinking water) and NBR seal. The Gate/Sluice valve shall be compatible for buried applications and shall be safe to Install in both horizontal and vertical positions It shall have electrostatic epoxy coating(approved for drinking water) both inside and outside of the valve. The valve shall be supplied along with hand wheel. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. The job includes providing and fitting of 02 nos. M.S flanges (Table flanges) perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job.	No.	'2	21,319.00	42,638.00
4	Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) as per IS 5312. The body shall be of ductile cast iron with fully encapsulated vulcanized EPDM rubber(Approved for drinking water). The valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions. It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. The job includes providing and fitting of 02 nos. M.S flanges (Table flanges) perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with Rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job.	No.	2	22,979.00	45,958.00
E C LL LL C	Providing, fitting, testing and commissioning of 75 KVA Voltage Stabilizer as per specifications below: Type of voltage controller: Manually operated copper wound, 3-phase, AC power supply multi- step. Type of Regulator: Double plate type with electrolytic copper contacts. Input voltage: 250-400 volts. (3 phase) Dutput voltage: 400 ±10% volts. Trequency: 50 ±3 C/S. Windings: Electrolytic grade copper of adequate section, vacuum impregnated and Oven-dried. Insulation: Fiber glass insulations to tested parameters. Cooling: Naturally, Oil cooled Temp. Rise (Max): 30°C above ambient Mounting: On Uni-directional wheels. Correction rate: 30 volts per step Vave form distortion: virtually nil Duty cycle: 100% continuous. Inclosure: MS sheet enclosure in pressed CGR Sheet powder coated with radiators. Tore laminates: High grade, low eddy loss, grain oriented silicon steel laminations. Tore laminates: High grade, low eddy loss, grain oriented silicon steel laminations. Three phase induction motor load. Three phase induction motor load.	No.	1	2,00,600.00	2,00,600.00

99912 / 8899941338
...orks to be carried out at WSS Kult

S. No. 02 issued under

制物

/A	Description	Unit	Qty.	Rate	Amount
1	type tube or otherwise visible to naked eye. The top of the container to have a display panel for topusing 02 numbers Digital voltmeters (0-500V) along with 4-way selector switch and set of neon indicators for incoming and outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade to be provided and filled up to top level, with dielectric strength of 5 KV at 4m air gap. The T-Oil of specific grade should be provided in separate barrels and filled at site up to top level. The voltage Stabilizer shall be accepted with manufacturers dully stamped test certificate and shall have name plate with specifications.				
6	Providing, fitting, testing and commissioning of 50 KVA Voltage Stabilizer as per specifications below: Type of voltage controller: Manually operated copper wound, 3-phase, AC power supply multi step. Type of Regulator: Double plate type with electrolytic copper contacts. Input voltage: 250-400 volts. (3 phase) Output voltage: 400 ±10% volts. Frequency: 50 ±3 C/S. Windings: Electrolytic grade copper of adequate section, vacuum impregnated and Oven-dried. Insulation: Fiber glass insulations to tested parameters. Cooling: Naturally, Oil cooled Temp. Rise (Max): 30°C above ambient Mounting: On Uni-directional wheels. Correction rate: 30 volts per step Wave form distortion: virtually nil Duty cycle: 100% continuous. Enclosure: MS sheet enclosure in pressed CGR Sheet powder coated with radiators. Core laminates: High grade, low eddy loss, grain oriented silicon steel laminations. Load: Three phase induction motor load. Load Amperes (continuous) Overload in 24-hours operation: 10% above continuous Ampere rating. The voltage stabilizer shall have T-oil level indicator gauge preferably glass type tube or otherwise visible to naked eye. The top of the container to have a display panel for housing 02 numbers Digital voltmeters (0-500V) along with 4-way selector switch and set of neon indicators for incoming and outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade to be provided and filled up to top level, with dielectric strength of 5 KV at 4m air gap. The T-Oil of specific grade should be provided in separate barrels and filled at site up to top level. The voltage Stabilizer shall be accepted with manufacturers dully stamped test certificate and shall	No.	1	1,30,000.00	1,30,000.00
7	have name plate with specifications. Supply, installation, testing and commissioning of Horizontal pumping unit as per IS 1520 with following specification:- Pump:- 1.Type:- Horizontal shaft single or double suction.e 2. Discharge:- 10000 GPH 3. Head:- 35 Meter 4. Liquid to be handled: Clear water 5. RPM: 1440 D. Material of construction 1.Impeller:- Stainless steel 2.Shaft:- SS410 3.Pump casing:- Cast Iron The pump shall confirm to IS-1520 code MOTOR:- A) Type:- Horizontal squirrel cage Induction Type B) No of phases: 415 ± 15%v, 03 phase,50 Hz, AC supply C) Winding:-Copper wound squirrel cage D) Type of enclosure:-SPDP/TEFC E) Method of Cooling:- Air cooled with fan mounted F)Method of Starting: star delta	Job	2	2,25,000.00	4,50,000.00



Description	Unit	Qty.	Rate Rate	
PRIME MOVER: 1. Type=AC Squirrel cage induction motor SPDP/TEFC 2. Power supply= 415 ± 10%, volts 30 phase, 50 ± 5% Hz. AC 3. Efficiency = Not less than 85 % 4. Class of Insulation= B or F or above 5. H.P= Suitable for pump not less than 15HP 6. R.P.M= 1440 Syn. The pump-motor should be mounted on a common base frame fabricated out of M.S channel of suitable size and duly fitted with T- type foundation bolts /nuts and washers to make the pumping unit vibration free. The pump and motor should be coupled through suitable coupling. The coupling faces checked for both angular and axial alignment with the help of tapered gauges/feeler gauges or dial indicator. Job includes testing and commissioning of pumping unit on full load at site. Note: Test certificate having the Serial No. of the Pumping Unit along with the performance curve in duplicate from the Manufacturer must be produced on delivery of the Item and pumping unit is to be approved from the concerned Sub Divisional office before procuring.			*	S. Fred
Creation of pole mounted, outdoor type Electric Sub Station by way of \$\frac{5}{IT/C}\$ of \$11/0.433 KVA, 3 Phase Distribution Transformer with Bimetallic Terminal connectors Energy level -2 Aluminum wound Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments Type of cooling: ONAN.Rating: 100 KVA HT Transformer, 3 phase (Level 2). Manufacturers certificate be apended Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer Type of cooling: ONAN. Operating conditions: Input =11000 volts Output =433 volts AC supply in 3- phase. Terminals: Input=3 No. HT bush rods with insulators, washer, nuts etc. Output=4 No. LT bush rods switch insulators, washers, nuts etc. Core: The core shall be of high permeability to reduce core losses and the strips shall be of suitable size and gauge. Transformer Coils: Suitable number of HT and LT coils in each leg of the core. The transformer coils shall be fabricated out of superior quality aluminum wire/strips, properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved.	Job	2	2,24,213.00	2
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 jel crystals, conservator with oil level indicator, explosion vet and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. NOTE: The scope of the work shall include obtaining of necessary inspection/clearance certificate from the concerned department for all the required equipment. The testing and commissioning shall be completed only after obtaining above certificate.				

Description	Unit	Qty.	Rate	A
	Unit	Qty.	nate	_
esign, manuracturing ,providing , fitting, testing & commissioning or Star-delta Motor control				
anel he Star-delta Motor control Panel shall be fabricated out of 2 mm CRCA Sheets Modular,	1			1
ompartmentalized, Free Standing, Floor Mounting, Front hinged doors for indoor use, removable				1
ottom gland plates for incoming cables, dust and vermin proof (IP:42 protection) with TP	Beer			1
luminum Buses, complete with connection, internal wiring, neon Indicators for each phase			-	
tarter buttons, name plates, painting, vents etc. All panel compartments shall be provided with			i e	1
uitable cable alley and vertical bus bar alley. Suitable segregation shall be provided in between				4
us bar chamber and adjoining compartments. The bus bar shall be PVC sleeved with color strips	1			
fred, yellow, blue and black and the same be arranged in accordance with IS-375 specs. Electrical				
earances shall be maintained between phases, neutral and body as per standards.				1
he control panel shall be furnished as per detail given below:	pr 4			1
ated Voltage of the Panel 440 Volts				
requency 50 HZ			F	1
No of Phases Three		1		
nclosure Details Free Standing, Floor mounted, Compartmentalized Design.				1
Material CRS				
Thickness of sheet steel used 02mm		2		
Application Indoor				
Cable Entry Bottom		ir.		
Painting Shade Siemens grey.				- 1
a) Main Circuit Breaker (Incomer MCCB)			l.	-1
Type Front Operated micro processor release type on load 4 pole	1		-	
Qty 1 Nos No. of poles 4		Į.	1	
Current Rating 200 Amp				- 1
Rated operational voltage 415 V AC ± 15%			ľ	
Rated frequency 50 ± 3% Hz				- 1
Liltimate S.C. Breaking can at 1/15 volt A.C. 50 Hz 1 50kA				- 1
				- 1
Type Microprocessor control				
b) Distribution bus bar	1			
TypeElectric grade AL with red, blue & yellow tapings	6			
Of adequate section.		1		-1
Rating 200 Amp		1		-4
c) Change over Switch			1	- 1
Qty One		-		
Type—— Front Operated on load 4 pole (open execution)		10		-1
Rating 200 Amp		/	+	- 1
d) Motor protection Circuit Breaker units				
Туре —— МРСВ				
Qty 2 Nos	1.	}		
No. of poles3		1		
Rated current160-200 Amp	4.	1		
Rated operational voltage 415 V ± 15%	46		i)	- 1
Rated frequency 50 ± 3% Hz				- 1
Ultimate S.C Breaking capacity		v		- 4
at (415 volt A C , 50 Hz)36kA				
e) Starters (FASD) 50HP		1		- 4
Power Specification3 phase, 415 ± 15% v & 50 Hz		i e		- 1
Contactors : MNX / Schneider			1	
Line Contactor AC3 95 A				
Delta Contactor ACS 95 A				
Star Contactor ACS 75 A				
	I			
Timer Star Delta Electronic				
Overload relay – direct/CT operated (35-75A range)	Job	1	3,32,68	6.00
Coil Voltage : 220/240V			3,32,08	J.JC
Qty 1 No's		1		



	T			1
Description	Unit	Qty.	Rate	-
f) Aux. panel for heating and lighting				
Circuit breakerMCCB				1
Qnty01 no.				1
No. of poles04				1
Thermal release range63-80 A				1
Rated operational Voltage415+15%				1
Ultimate S.C. Breaking Capacity35 KA at (415AC,50 Hz)				
g) Stabilization unit				1
Qnty01 no	The said			1
Rating 1 KvA single phase automatic voltage stabilizer				
Input :90V-300		2		
Out Put: 220/240 (as per coil voltage of contractors)		E C C		
Enclosure to be housed within the cubical panel in separated chamber				
with additional meter , LED fitted outer side				
MCB DP10A1nos				
h) Protection Details:				
Motor Protection Relay including other related accessories like single phase preventer relay,				
timer relay, overload-under load, phase difference etc.				
Display LED/LCD				
Compact motor protection relay		× 113		
Note: all setting is to be controlled at display.				
Qnty :01 nos)				
Protections :				l
Flush Mounting with display				
• Last trip data recording				1
	4			
Protections:				
Thermal Overload with pre- alarm				
Short Circuit			la de la companya de	
Earth fault				
Phase loss, Unbalance, Phase reversal				
Under Current, Over Load				
Prolong starting, Locked Rotor.				
Single phase protection- Single Phasing condition- Phase Reversal condition- Phase Unbalance				
condition-Modes of Operation .				
i) Auxiliary Protection			v 675	
Earth Fault Relay 3 phase Earth fault, ground fault module				
Type ——GF				
Range 100-200A				
MCB — MCB SP , 10A (10 Ka)	1 . 1			
Metering Details:	6 4) deal	3	
Incomers (Panel Mounted)				
(a) Multi-Function Meters LCD Display (1 No) Voltage of each phase , Current of each phase 3ø				
ower (Active, Apparent), 3ø Power factor Frequency, Energy				
(b) Analog voltmeter S/S operated (1 No)		1		
(b) Outgoing	1			1
(Analog voltmeter (0-500) S/S operated (1Nos).				
Analog Ammeters 0-100 Amp (2Nos) for both starters	17			1
Allaid Allineters of 100 / line (2.100)				

Description	Unit	Qty.	Rate	Amount
pesign, manufacturing ,providing , fitting, testing & commissioning of Star-delta Motor control				
panel				
The Star-delta Motor control Panel shall be fabricated out of 2 mm CRCA Sheets Modular,				
compartmentalized, Free Standing, Floor Mounting, Front hinged doors for indoor use, removable	1 1			
bottom gland plates for incoming cables, dust and vermin proof (IP:42 protection) with TP	1 10			
Aluminum Buses, complete with connection, internal wiring, neon indicators for each phase	14 1 18			
starter buttons, name plates, painting ,vents etc. All panel compartments shall be provided with	1			
suitable cable alley and vertical bus bar alley. Suitable segregation shall be provided in between	1. 4			
bus bar chamber and adjoining compartments. The bus bar shall be PVC sleeved with color strips	B- 0			
of red, yellow, blue and black and the same be arranged in accordance with IS-375 specs. Electrical			7	
clearances shall be maintained between phases, neutral and body as per standards.				
The control panel shall be furnished as per detail given below:				
Rated Voltage of the Panel 440 Volts				
Frequency 50 HZ	Job	1	1,92,073.00	1,92,07
No of Phases Three				
Enclosure Details Free Standing, Floor mounted,				
Compartmentalized Design.	9 9			
Material CRS	J 3		V 1	
Thickness of sheet steel used 02mm				
Application Indoor				
Cable Entry Bottom	1			
Painting Shade Siemens grey.				
a) Main Circuit Breaker (Incomer MCCB)				1
Type Front Operated micro processor release type on load 4 pole Oty 1 Nos				
No. of poles 4				
Current Rating 160-200 Amp	1			
Rated operational voltage 415 V AC ± 15%			1	
Rated frequency 50 ± 3% Hz				
Ultimate S.C Breaking cap				6
at (415 volt A C , 50 Hz) 50kA			36.	Å.
Type —— Microprocessor control	\$ "F			d.
b) Distribution bus bar				A.
Type ——Electric grade AL with red, blue & yellow tapings of adequate section.				
Rating160 Amp				100
c) Change over Switch				4 1
Qty — One				
Type — Front Operated on load 4 pole (open execution)	12. 1			
Rating 100 Amp		d s		
d) Motor protection Circuit Breaker units	4 . 3	far in		19
Type — MPCB	· 100 100	de a la la la		
Qty 2 Nos				60
No. of poles3 Rated current84-125 Amp				
Rated current84-125 Amp Rated operational voltage 415 V ± 15%	dinal a	9	A Section 1	3000
Rated frequency 50 ± 3% Hz	1	A commence	4 7	
Ultimate S.C Breaking capacity at (415 volt A C , 50 Hz)36kA				1 1
e) Starters (FASD) 20HP	11. 1	Ų.	2	
	Maria N	10	16 18 19	
Power Specification3 phase, 415 ± 15% v & 50 Hz	100	10.0	100	311
Power Specification3 phase, 415 ± 15% v & 50 Hz Line Contactor AC3 50 A	Harry	10		
Power Specification3 phase, 415 ± 15% v & 50 Hz			100	
Power Specification3 phase, 415 ± 15% v & 50 Hz Line Contactor AC3 50 A Delta Contactor AC3 50 A				
Power Specification3 phase, 415 ± 15% v & 50 Hz Line Contactor AC3 50 A Delta Contactor AC3 50 A Star Contactor AC3 40 A				
Power Specification3 phase, 415 ± 15% v & 50 Hz Line Contactor AC3 50 A Delta Contactor AC3 50 A Star Contactor AC3 40 A Timer Star Delta Electronic				



0.	Description	Unit	Qty.	Rate	
	f) Aux. panel for heating and lighting				0 2 5
	Circuit breakerMCCB	1			
	Qnty01 no.				
	No. of poles04	100			
	Thermal release range63-80 A		a in the electric	0	1
	Rated operational Voltage415+15%	March 1		fire a	
- 1	Ultimate S.C. Breaking Capacity35 KA at (415AC,50 Hz)				
- 1	g) Stabilization unit			Mary Comment of the	
	Qnty01 no				
	Rating 1 KvA single phase automatic voltage stabilizer	Dr.			
	Input :90V-300	9			
	Out Put : 220/240 (as per coil voltage of contractors)		Later 1		
	Enclosure to be housed within the cubical panel in separated chamber	1			
	with additional meter, LED fitted outer side				
	MCB DP10A1nos				
	h) Protection Details:		1		
		MAX 1			
- 1	Motor Protection Relay including other related accessories like single phase preventer relay,				
- 1	timer relay , overload-under load, phase difference etc.	ON B			
	Display LED/LCD		10 N		
	Compact motor protection relay		100		
	Note: all setting is to be controlled at display.	174			
	Qnty :01 nos)			1 10	
	Protections :				
-	Flush Mounting with display				
	Protections:	1			
	- Thermal Overload with pre- alarm				
	- Short Circuit				
	- Earth fault				
	- Phase loss, Unbalance, Phase reversal	III.4V	199		
		The Alexander	7 vs. 218		
	- Under Current, Over Load			All the state of t	
	- Prolong starting, Locked Rotor.	100			
	-Single phase protection- Single Phasing condition- Phase Reversal condition- Phase Unbalance		1 3 3 6 1		
	condition-Modes of Operation				
	i) Auxiliary Protection				
- 1	Earth Fault Relay3 phase Earth fault, ground fault module	10.00			
	TypeGF	- 1			
	Range 100-200A				
	MCB MCB SP , 10A (10 Ka)			A CALL OF A	
	i) Metering Details:				
- 1					
	•Incomers (Panel Mounted)				
	(a) Multi-Function Meters LCD Display (1 No) Voltage of each phase , Current of each phase 3ø				
	power (Active, Apparent), 3ø Power factor Frequency, Energy				
	(b) Analog voltmeter S/S operated (1 No)				
	•(b) Outgoing				
	(Analog voltmeter (0-500) S/S operated (1Nos) .				
	Analog Ammeters 0-100 Amp (2Nos) for both starters		The second		
	Each outgoing with S/S CT operated.				
		en K			
- 1	Supply, Installation, Testing and commissioning of Polymeric Gang operated Air break switch 3				
	Phase, 3 Pole, 200 A, Vertical Type, outdoor type, triple pole, suitable for vertical installation,		- 0	9	
	single break provided with locking arrangement at both ON and OFF position consisting of HT post				
	double insulator, copper or copper alloy high pressure heavy contact assembly, rod with bearings,	c	3	12 527 00	20.004
0	operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of	Set	2	12,527.00	25,054.0
	nsulators, rated voltage 11KV 200A complete as per IS specs.				
	supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A	Cat		5 222 00	10.044.0
	uitable for vertical installation. upply, Installation, Testing and commissioning of Gapless Surge arrestor station class, 10KA, 9KV,	Set	2	5,322.00	10,644.0
L	A With polymer housing, Station Type as per Clause 30	Set	2	8,281.00	16,562.0
100.0	upply and fitting of 11 KV polymeric composite disc insulator 12 KV, minimum falling load 45KN, ighting impulse 75KV Positive, and 80 KV Negative, creepage distance 320 mm.	Set	20	371.00	7,420.
P	roviding of bamboo ladders 18 feet long along with 15 feet long Link rods and HT Glove pair (01		ļ		
		Linia	2	8,085.00	16,170.
N	o each)	Unit	2	0,003.00	10,170

1	Description	Unit	Qty.	Rate	Amount
XN e a	orthing of substation Excavation of earth pit of dia 650 mm & depth 3000 mm, Installation of arthing pipe of 40 mm cominal bore & 4mm wall thickness & length 2.5 mtr long as Per IS 1239.GI Strip for neutral arthing of size 25 mm x 3 mm for connection of transformer body, neutral, G.O Set, lightening crestor, LT Control Panel and voltage stablizer as per IS 2629/85, GI nuts & bolts, refilled with earth enhancement materials and earth Chamber made of brick masonary with RCC slab cover.	Job	5	11,508.00	57,540.
	Distribution Cables: Providing, Installation, testing of multi-stranded copper conductor PVC insulated single core unsheathed 35mm sq. Copper cable for internal distribution wiring for stage 1st and 2nd	Meter	300	557.00	1,67,100
3	Providing and Fitting of 95 sqmm 3.5 core LT 1.1 KV, XLPE Armoured Aluminium Cable conforming to IS: 7089 part 1st as service line from the HT transformer/DG set to control panel including necessary thimbling, crimping, taping etc. NOTE:- The cable terminal ends for connection to switchgear at various requisite points shall be Al. Thimbles of appropriate size and connected by hydraulic crimp tool only for stage 1st and 2nd	Meter	50	877.00	43,850
9	Steel work in built up tubular (round, square or rectangular hollow tubes, ISMC,ISMB,ISA etc.) trusses, construction of liner etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete The drawings and Dimensions for Gantry/Transformer Bed/Pumping Equipment Base will be provided by Site In Charge at the time of execution of job	Kg.	720	130.00	93,600
20	Providing, installation and testing of Heavy Duty manua type triple spur gear chain pulley block along with monorail geared travelling trolley having following features Gears:- The hoist shall have precision machine case Hardened alloy steel gear mounted on bearings and housed in a dust proof gear box. The lubrication of gears should be of high viscosity and temperature for longer life of gears. Load Chain:- The load chain be made of high tensile alloy steel having wear resistance and greatest mobility. The chain should be accurately collaborated, tested and have adequate in built factor of safety for safer operation. Load chain wheel:- the load chain well should be double ball bearing supported and Specially designed, perfectly machined wheel providing correct grip of load chain to makes the hoist most safe and reliable against any failure. The main specifications of C.P Block are given below: i.Make = Reputed make ii.Capacity = 3 ton (P) iii.No. Of load chain falls = 2 or above iv.Min. Height of lift = 6 M	Job	1	90,000.00	90,00
1	Illumination of Premises: Providing and erection of 9 Mtr long Hot Dip Galvanized octagonal pole (single Section) with bottom 150mm, top 75mm wide, thickness 3mm with 70 Microns Zinc coating having inside arrangement for providing of power connection along with following items. 1)3 Way Terminal Connector 20 Amp. 2)3 No MCB 8 Amp. The job includes fabrication, providing and fitting of three arm GI structure at the top having 120' angle between arms and each arm having 15' inclination with respect to horizontal plane. Each arm should be of 2' length and size and shape appropriate as per requirement of the luminary. The job also includes providing and fitting of required length of flexible multi strand 2 mm copper wire from each terminal connector to each holding arm. The pole is mounted on 1:2:4 Cement concreting of size not less than 2'x2'x6" (cost of concreting not included in the job) using 04 No anchor bolts of required size not less than 7" in length. The complete job includes earthing in GI Electrode as per relevant IS Code	Job	2	27,000.00	54,



	Description	Unit	Qty.	Rate	Amo
	Providing, installation, testing and commissioning of area lighting 120 Watt LED (Street Light Type) on top of octagonal pole including MCB flited in box 10A vide Item No.36 Having following specs: Input: 90-240 V 50 Hz Power Factor: >0.9				*
	Colour Temperature: 4K - 6.5K				
1	Beam Angle: 120" - 170" Lumens: >12000	Job	8	9,000.00	72,000.00
Carlo Contraction of the Contrac	Operating Temperature: -20°C to 60°C The LED is pressure die cast aluminum housing with power coated finish and having Ingress Protection up to IP-68. The LED is properly fitted on the arm of the pole and connected to the copper wire as provided in				
	the high mast pole				
1	Providing and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED				
A STATE OF THE PARTY OF T	Lighting. The job includes making of electric connection to the circuit.	Job	2	2,378.00	4,756.0
Charles or other party and	Providing, Installation and testing of 2KVA fully automatic voltage stabilizer with Input voltage 70- 240 V and output 220 V. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge.	Job	2	9,164.00	18,328.00
1	Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including				
1	Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover. with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like SS-Combine (02 No's), 3-pin plugs etc of reputed make for proper fitment and installation of the item.	Job	2	37,458.00	74,916.0
ŀ	made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications:	Meter	20	1,326.00	26,520 n
1 1	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate.	Meter	20	1,326.00	26,520.0
1 7 5	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide.	Meter	20	1,326.00	26,520.0
T S F i. iii	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 Double ended Spanner (Chrome plated) 02 sets complete i. Double ended Ring spanners chrome plated 02 sets complete ii. Allen key set black finish 02 sets complete	Meter	20	1,326.00	26,520.0
TSFLIIINVV	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 Double ended Spanner (Chrome plated) 02 sets complete i. Double ended Ring spanners chrome plated 02 sets complete	Meter	20	1,326.00	26,520.0
TSPILITINVV	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. 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 Double ended Spanner (Chrome plated) 02 sets complete i.Double ended Ring spanners chrome plated 02 sets complete ii.Allen key set black finish 02 sets complete v. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii.Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii.Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity	Meter	20	1,326.00	26,520.0
T S P i. ii ii v v vi B St	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 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 v. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii. Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02	Meter	20	1,326.00	26,520.0
IT IT IS FEET IN VIEW VIEW IN VIEW VIEW IN VIEW VIEW IN VIEW I	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. 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 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 v.Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii.Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii.Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02 5 3 1.6 x 0.4 02 6 3 1.6 x 0.4 02 6 3 1.6 x 0.4 02 7 00 3 3 x 0.4 02	Meter	20	1,326.00 31,724.00	
17 S P II. III III III III III III III III I	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. 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 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 v. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No. ii. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. iii. Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02 3 1.6 x 0.4 02 3 1.6 x 0.4 02 3 3 x 0.4 02 3 3 x 0.5 x 0.5 02				
17 T S F i.i. iii ii v v v v v v v v v v v v v v	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 Double ended Spanner (Chrome plated) 02 sets complete i. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete v. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. it. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. iii. Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02 15 3 1.6 x 0.4 02 15 3.5 3.5 x 0.5 02 16 3.5 3.5 x 0.5 02				
11 11 11 11 11 11 11 11 11 11 11 11 11	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 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 v. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. ii. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. iii. Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02 1.6 x 0.4 02 1.6 x 0.4 02 1.7 x 0.5 x 0.5 02 1.8 x 0.5 x 0.5 02 1.9 x 0.5 x 0.5 02 1.9 x 0.5 x 0.5 02 1.0 x 0.6 02				
iii iii iii iii iii iii iii iii iii ii	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 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 v. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. 2. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. ii. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. iii. Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02 0 3 3 x 0.4 02 0 3 3.5 x 0.5 02 0 4 4 x 0.6 02 0 5 5 x 0.8 02 OHammer with handle weight – 110 mg, 340 gm, 600 gm –each – 1No. Reavy duty pipe Wrench length in mm - 200, 300, 600 each – 01 No. ectric Multimeter = 1No				
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. FOOL 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 Double ended Spanner (Chrome plated) 02 sets complete i.Double ended Ring spanners chrome plated 02 sets complete ii.Double ended Ring spanners chrome plated 02 sets complete iii.Allen key set black finish 02 sets complete v.Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. ii.Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No. ii.Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. iii.Insulated screw Drivers lade length in mm Blade dia. in mm Tip dimensions in mm Quantity 0 3 1.6 x 0.4 02 0 3 1.6 x 0.4 02 0 3 3 x 0.4 02 0 3 3 x 0.4 02 0 3 3.5 x 0.5 02 0 4 4 x 0.6 02 0 5 5 x 0.8 02 OHammer with handle weight – 110 mg, 340 gm, 600 gm –each – 1No. Heavy duty pipe Wrench length in mm - 200, 300, 600 each – 01 No.				26,520.00 63,448.

RANC	Description	Unit	Qty.	Rate	Amount
/	a) providing of good quality conveinence and utility Items bedding for night stay/Shift consisting of:				7 modile
28	Mattress with warm cover size 6'x3' (6Kg)- 02 No's Quilt with warm cover size 5'x8' (6Kg)- 02 No's Quilt with warm cover size 5'x8' (6Kg)- 02 No's Quilt with warm cover size 5'x8' (6Kg)- 02 No's Single bed warm blankets with one sided Fur- 02 No's The filling material for mattress, quilt and pillow shall be of good quality cotton b) The job also includes providing of pressure cooker 5ltr 02 No's, Steel patella (utensil) 5ltrs 02 No's, cooking heater 01 No., room heater 01 No., steel buckets 10 litre capacity 01 No., Plastic bucket 10 litre capacity with Mug 02 No's each, steel glasses 06 No's, steel Plates with large spoons and bowls 03 No's each, Cup and Saucer set (01 No. Set) and, 5kg Gas cylinder with burner/ stove. The job also includes providing of thermo-cool 15'x12' along with excel matting of 15'x12' size. The job also includes providing of unbreakable Plastic Chair table set consisting of chairs 04 No's, extra heavy Table 01 No. The job also includes providing of good quality safety Door locks (03 No's) of Godrej, Link locks,	Job	2	43,581.00	87,162.0
29	Fabrication of 6'x3' angle iron beds having 2' height using 50x50x6mm angle iron by way of providing and fitting of Structural steel in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete welded.	Kg.	189.5	102.00	19,329.0
30	Providing and fitting of 19 mm thick multilayered ply Ply wood board to be fitted on the angle iron beds of size 6 x 3 feet , 2 no's including cutting , fixing all complete including painting of the play sheet by one coat of primer and two coats of enamel paint	Sft	36	154.00	5,544.
31	Providing of solar/electrical lantern chargeable on both solar & electrical 220v supply.	Job	2	1,430.00	2,860.
32	Providing of 1 KW heat convector for operators for winter season	Job	2	902.00	1,804
33	Providing and fitting of 01 No. LED (scroll type) sign board fabricated out of stainless steel and metal showing the names of water supply scheme and the Department. Size: 6'×1'6" = 9 sft	Sft	18	4,398.00	79,164
34	Providing & fitting of lighting points for (machine room, operators room,) as per site requirement in 1.5 mm² multistranded single core 1100 volts, pvc insulated copper conductor through pvc conduit pipe by way, switches, socket modules, regulators, indicators, 08/10 watt LED lamps Surface light Make. Included is cost on account of modular switch boards with the wooden frames as per site requirements for stage 1st and 2nd	Job	16	. 1,760.00	28,160
35	Providing fitting of heating points in 2.5mm² multistranded single core 1100 volts, pvc insulated copper conductor through pvc conduit by way of p / f of 15 Amp switches, 6 pin socket on modular fitting as per site requirements. Heating points are to be connected from main control panel. All accessories required is to be provided by the firm for stage 1st and 2nd	Job	4	1,540.00	6,16
36	Providing and fitting of 01 No. angle iron/sheet metal board duly painted showing various specifications of the mechanical and electrical equipments installed at site for stage 1st and 2nd	Sft	48	280.00	13,44
37	Fabrication, providing and fitting of split type MS clamps 10 mm thick and 4" wide for lowering and holding of VT pumping unit as per sample. The job includes the cost of required size of nuts and bolts.	Job	2	2,750.00	5,50
38	Handling, laying and joining by welding of departmental GI prefabricated 125mm diameter Medium class GI Rising Mains from Stage 1st to PST (Replacement of wornout Pipe)				
38	Laying of 125mm Diameter medium class GI rising main	Meter	2500	960.0	0 24,00,0
38	Providing, fitting and testing of approved quality 125mm dia. sluice valve (01 No), along with 125mm dia. dismantling joint (01 Nos) in the GI Rising Mains at the required location as per the directions of site Engineer. The dismantling joint is to be installed with the sluice valve with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	Job	2	37,000.0	
38	Providing, fitting and testing of approved quality 125mm dia. NRVs (01 Nos), along with 125mm dia. dismantling joints (01 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer. The dismantling joints are to be fitted with the Non Return valves with the help of flanges including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	Job	4	41,500.0	0 1,66,0
38	Providing, fitting and testing of approved quality 50mm dia. CI Double Acting Air Release Valves (0 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.		5	14,500.0	00 72,50

endorsement No... warded by UI31
Authorization awarded Minutes of Meeting ...
(Chairman DJJM) through Minutes of Meeting ...
(Chairman DJJM) 22-08-2023. Reference:

	(Chairman 22-08-2023.				-chanica
S. No.	Description ·	Unit	Qty.	Rate	Amount
38.1	Providing, fitting and testing of approved quality 125mm dia. Enclosed Type Water Meter (Bulk Type) (01 Nos) in the GI Rising Mains at the required locations as per the directions of site Engineer including all welding charges, cost of nuts /bolts, rubber washer, testing of joints.	Job	1	8,000.00	8,1
	Total Amount				65,77,262.00
	Percentage quoted by L1 firm:			HE FIFT I	-7.09%
	Total: (Purpose Sixty One Lakh Ton Thousand Miles Hundred and Thirty Four Only)				61,10,934.00

Executive Engineer
(PHE) Mechanical Division (North)