No	Particulars of work	wy	unit	Water Supply www rate	Amount
1	Supply, installation, testing and commissioning of Horizontal pumping unit as per is 1520 with following specification: Pump: 1.Type: Horizontal split casing Material of construction 1.Impeller: Bronze 2.Shaft: S\$410 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: 3 phase 415 V+10%,50 Hz, AC supply C) Winding:-Copper wound squirrel cage D) Type of enclosure:-SPDP/TEFC E) Method of Starting: star delta G) Speed: 1440 RPM The pump-motor should be mounted on a common base frame fabricated out of M.S channel of suitable size and duly fitzed 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. The main specifications of pumping unit are Discharge: 8000 GPH Head: 90 m Motor Capacity = 30 HP		job	3980M	20200
	Supply, Installation, Testing & Commissioning of Submersible Pumping Unit as per IS 8034 with following specification are as under:PUMP:Efficiency = Not less than 50% Speed = 2900 RpmType of pump = Mixed flow.Type of fluid to be handled = Clear WaterMATERIAL OF CONSTRUCTION:Impeller = Stainless SteelPump Shaft = Stainless Steel SS 410.Pump Casing = Cast Iron/Stainless steeliMPELLER:impeller is of the enclosed or semi - enclosed type and properly balanced. Enclosed Impellers equipped with seal rings on their hubs. COUPLING:A suitable coupling arrangement provided with pump set.Non Return Valve: Non Return Valve of the suitable size provided above the pump discharge case.MOTOR:-Method of starting = Star - Delta/DOL (as specified)Speed = 3000 (Sync).Frequency = 50 ± 3 % Hz Working Voltage = 380-415 ± 15% V, 03 phaseEfficiency = Not less than 90%Class of insulation = F/Suitable for above parametersSubmersible motor should be water filled water lubricated squirrel cage type having capacity for above pumping parameters and working on 3 phase; AC supply ranging from 380 to 415 volts, 50Hz. The motor should be sealed by radial rings to avoid mixing of well water with motor filled water. a) The job includes providing and fitting of interlocking arrangement against any failure of coupling. It must be fabricated out of MS strips of suitable size and length.b) The job includes providing and fitting of appropriate size MS nipple 2 feet long threaded on one end and welded to same size MS flange of thickness (as per Table-17) at other end for column pipe as per site				0

Land			-		A second of the second
100	requirement. The threaded portion should be as per size of pumping out				
			-	I	
A. C.					
1	Condition the contract of the				
1					
	equipment is compulsory and pumping unit is to be approved from the				
	of pumping unit are Discharge: 6000 GPH Head: 70 m Motor Capacity =				
-					
2.01	Discharge: 6000 GPH				
	Head: 90 m	2	Job	96921	193842
	Motor Capacity = 12.5 HP		,		
2.02	Discharge: 35000 GPH				
	Head: 30 m	1	Job	144255	144255
	Motor Capacity = 45 HP		,00	11100	
	Size of pumping unit - No. 1			- Cl. o 60'h-	
2.03	Size of pumping unit = Not less than V8 (200 mm) Discharge: 15000 GPH			Conse	
	Head: 80 m	2	job	137300	274600
1		2	JUD	13/300	2. 1000
	Motor Capacity = 30 HP			dasaw.	
3	Size of pumping unit = Not less than V8 (200 mm)			Charles .	
	PPHy, Installation, Testing & Commissioning of No. 1.	1	Job	315000	315000
		1	100	315000	313000
	fact well Submersible Vertical Pump • Solid Handling Capacity: 20mm				
	a i i i a i i i a i i i a i i i i a i i i i a i i i i a i i i i a i i i a i i i a i i i a i i a i i a			1-00-2	
	and the with specific gravity 2.5 MATERIAL OF CONSTRUCTION A Dump			(Sales)	
	Cactiron - D Cl. C				
	Statilless Steel Motor Body Cast Iron ii The head aleas at 111				
	From the middle place deplication of Moron w				
	Delta Cage 5-Findse induction Motor a Method of starting, Character Delta				
	: 50Hz + 3% Voltage : 415 + 6 0/				
	15% 3 phase • Class of insulation, Suitable for				
	above rating. Sealing : Dual mech seal Provided with the arms.				
	and overload protectionThe motor shall be made of corrosion resisting			_	
1	materials to resist corrosion under normal conditions and the motor shall				
1	have a name plate depicting all specifications for each numping unit. The				
	job further includes P/F stater Panel alongwith protection devices				
	required for the operation of the pumping units .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				
1	Divisional office before procuring. The main specifications of pumping				
	unit are Discharge: 10000 GPH Head: 20 m Motor Capacity = 20 HP				
4	Design, supply, providing, installation, successful testing and				
	commissioning of vertical turbine pumping unit as per IS 1710 driven by	2	job	1435000	2870000
	VT motor for pumping water from Nallah of following parameters.• Site				
	ConditionAltitude = 1580 Meters/Greater (AMSL)Ambient Temperature =				
	+40°C to - 15°CRelative Humidity = 60% • Quality of water to be lifted =				
	filtered water • Sump/liner Bed Level = 8m below from Machine floor		. 1		
	level • Water column in liner/sump = 2 m above from sump/liner bed				
	level* water counting in inter/sump = 2 m above from sump/liner bed				
	levelA. PUMP1. Discharge 35000GPH2. Type = Self water lubricated,				
	VT pump, open line shaft.3. Liquid to be handled = Raw Water4. RPM =				
	14605. Head = 96 m6. Efficiency = Not less than 50%7. Impeller =	AL Y	1 4	16.	
a.	bronze/stainless steel 8. Line shaft/head shaft = Stainless steel 9.				
7	Length of each line shaft = 1.5 m maximum 10. Total length of line				
94	shaft = 10 m/as specified (excluding Head shaft) 11. Impeller shaft				
	= Stainless steel14. Suction Strainer = MS fabricated17. Column pipe =			4.	
	Mild Steel of wall thickness not less than 8mm flanged type in assorted		M le		
The state of the s	lengths18. VT Pump to be designed with 8 No. of stages or less. B. Prime		1		2
	Mover1. Type = Vertical shaft, AC squirrel cage induction motor 2.		15		
	Power Supply = 03 Phase, 415V + 10% AC3. Frequency = 50Hz +				
	3%4. RPM = 1450 Synchronous5. Efficiency = Not less than 90%6. HP	1 1	100	122	
	= 50 HP or Above7. Class of insulation = F or above8. Type of duty =				A TOTAL OF THE PARTY OF THE PAR

1					
1	Continuous 9. Type of rotor = suitable among single squirrel cage /				
100	double squirrel cage, single or double skewed squirrel cage / thrust bearing = Anti friction ball (soller)				
1	thrust bearing = Anti friction ball /roller bearing 12. Method of starting = star/deltaThe motor should be able to with				
	star/deltaThe motor should be able to with stand fluctuations in				
A	voltage and should be conforming to latest IS specifications.C. Accessories Fach pump unit shall be latest IS specifications.C.				
	Accessories • Each pump unit shall be provided with proper stiffening box arrangement, non-reverse ratches coupling				
	arrangement , non-reverse ratchet, coupling etc as per standard specification besides all other research		in State		
	specification besides all other accessories required for satisfactory				
	performance and mechanical works required for satisfactory unit at site are included in the job. Note: Providing the satisfactory				
Í	unit at site are included in the job. Note: Providing of test certificate & Characteristic Curve of pumping equipment is				
	Characteristic Curve of pumping equipment is compulsory and pumping unit is to be approved from the concerned authority and pumping				
5	unit is to be approved from the concerned authority before procuring. Providing/supplying and fitting of C.18en.				
3	Providing/supplying and fitting of G.I flanged Rising Main at site. The Pipe shall be hot dip Galvanized, class-C confirming to 15 Lagrange at Site.		-		The second secon
	shall be hot dip Galvanized, class-C confirming to IS 1239. The job includes providing and fitting of M.S Flanges conforming to IS 1239. The job includes	18	111	3075	55350
	providing and fitting of M.S Flanges confirming to IS 1239. The job includes 17 (Rating PN16). The flanges shall be double world at 1997 Table				
	17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrical desired by the pipe using standard elect				
	and outside of the pipe using standard electrode of reputed make.Flanges (as per IS 6392/1997 Table: 17) Thickness about				
1	(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 ElectrodeDC Arc Welding using welding electrode				
	ElectrodeDC Arc Welding using welding electrode having diameter not less than 4mm.Nuts and BoltsNuts and Bolts Nuts and Bolts				
	less than 4mm. Nuts and BoltsNuts and Bolts (conforming to IS:1363 Part 1st)Rubber Insertion GasketsRubber Insertion CasketsRubber Insertion CasketsRu				
	1st)Rubber Insertion GasketsRubber Insertion Gaskets (conforming to IS:1363 Part 638/79) to be used between flanged joints. The				4
-	638/79) to be used between flanged joints. The rising main is to be laid as per the instructions of the engineer in short.		100		
	per the instructions of the engineer in charge and site requirement. Size: DN150Class: C (Heavy)				
5.01	DN150Class: C (Heavy)				
6					
0	Filling available excavated earth in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in death.	48	m	2189	105072
1	etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by reaming and watering, lead upto 50	40	cum	218.4	8736.00
7	layer by reaming and watering, lead upto 50 m and lift upto 1.5m.				
1					
	cm in depth, 1.5 m in width as well as 10 m2 on plan) including disposal of excavated earth lead upto 50 meters and 100.	80	cum	592.9	47432
	excavated earth lead upto 50 meters and lift upto 1.5 m, as directed by				
1	Engineer-in-Charge.1 All kinds of soil:				
8	Extra for every additional lift of 1 5 m and 11				
-		30	cum	89.75	2692.5
9	and to levelling & nearly dressing of disposed and				
-	The research Filletties illi-thards	40	cum	65.9	2636
10	providing and laving of stone soling including many				2000
11	and shullering incliding christing promise	15	cum	740	11100
		85	Sqm	286.35	24339.75
12	Centering and shuttering including strutting, propping etc. and removal of form for:				24003003
	form for:	60	sqm	628.95	37737
	Walls (any thickness) including attached pilasters, buttresses, plinth and			-20.50	37737
	string courses etc.				
13	Providing and laying in position com-				
	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of	50	cum	6591.3	2205625
	including curing but excluding the cost of centring and shuttering all			0071.3	329562.5
	work upto plinth level with 1: 2: 4 mix (1 cement, 2 coarse sand, 4 graded stone aggregate 20 mm nominal size)		1		
14	Providing and laying in position			1	
1.1	Providing and laying in position coment concrete of specified grade of	15	cum	8273.3	124000
	I chiloi cement cement concreteinchiding curing but and discon-			0273.3	124098.8
8	certaing and shuttering, infishing and reinforcement all work was a second				
	level with 1: 1.5: Smix (1 cement , 1.5 coarse sand , 4 graded stone				
15	aggregate 20 mm nominai size)		1		
15	12 mm thick cement plaster of mix 1:4 (1 cement, 4 fine sand)	130	Sa m	200	
16	Steel reinforcement for RCC work including straightening gutting	1500	sq.m	286	37180
	bending, placing in position and binding all complete unto plinth loud	2000	kg	96.55	144825
	Thermomechanically treated bars of grage FF, 5000 or many				
17	Fabrication, providing and fitting of split type MS clampa10 mentals in a contract of the specific spe	2	-		
	long and 5 men wide for lowering and holding of numning unit for a m	4	Job	1801	3602
-	100 includes the cost of required size of nuts and holte Size, 150mm				
18	Fabrication ,Providing and fitting of long radius 90-120 degree		-		
	A STATE OF THE STA	4	No	5728	22912

Allen					
1	bend/elbow to be fabricated out of G.I pipe, I m length and flanged on	The property of the second second			
1					
E					
-					
A					
The state of the s	Class: C				
10	Cutting of hot dip galvanized G.I., pipe across the section by dint of pipe	The same of the sa			
		6	job	2059	12354
	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				
1	double layers using Advant (Feeb (187), one of the carried out in				
1	double layers using Advani/Esab/L&T- SS Bond make electrodes to form				
20	the state of the state of the pine ie DM 160 Class of				
	the teation, providing and fifting of washout Too with any land 1.0.5	1	Job	7036	7036
1	the rec shall be labricated out of G. I pipe with M.C. Planare	-	100	7030	, 950
	contoffing to 515 6392/1997 Table 17 (Rating PN16) factored with well				
	joints on three ends.				
	Size: 150mm				
21	Class: C class				
21	Providing and fitting of, Ductile Iron double flanged, non-rising spindle	2	No	25977	51954
	soft scatted glandiess gate/ sinice values as nor IC14046 for regulational	2	NO	259//	51954
1	water supply outside the pumping units				
	The body and bonnent of the valve shall be of ductile iron wodge with				
	rang vincanized EPDM rubber(Approved for drinking water) and MPD				
-	seal. The Gate/Stuice valve shall be compatible for buried applications and				
	stian be sale 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. Body/Wedge D.I GGG 40/50				
	Cost on account of Nuts, bolts, gaskets, etc required for the job is included	1			
	in the scope of work.				
	The job includes providing and fitting of 02 nos. M.S flanges perfectly	19			
	adaptable to the inbuilt flanges of the valve which shall be fitted with	V			
1	rising main of the pumping unit at appropriate spots as per site				
1	requirement.				
1	Size: DN150	1			
	PN:1.6/16				
21.0					
•	SIZE: DN 200 PN 1.6/16	3	job	34310	102930
1 210	Alter Division				
21.0	SIZE: DN 100	4	job	19094	76376
2	PN 1.6/16				
21.0	SIZE: DN 80	2	job	15497	30994
3	PN1.6/16		,		
22	Providing and fitting of Ductile Iron double flanged, Slanted seat swing	3	Job	32205	96615
	check valve(NRV) as per IS 5312. The body shall be of ductile cast iron	-	,55		70013
	with fully encapsulated vulcanized EPDM rubber(Approved for drinking				foot
	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)				B2
	both inside and outside of the valve. Body/Disc D.I GGG 40/50				
	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.				
	Size: 150mm				
	PN: 1.6/16				
22.0	SIZE: DN 100	4	job	20581	82324
1	PN1.6/16		à.		
22.02	SIZE: DN 80	2	job	17489	34978
Name and Address of the Owner, when the Owner, which					



	PN1.6/16	print many transaction of			
2.03	SIZE: DN 200	and the second second second			
22.03	PN1.6/16	3	job	45700	137100
22.0	SIZE: DN 300				
		3	job	135000	405000
4	PN1.6/16, The NRV it to be fitted in already laid 300 mm Dia. rising main.				
	The job further includes arrangement of mechanical excavator and		-		
and the same of	mechanical works required for fitting of NRV in rising main.				
23	Providing, fitting, testing and commissioning of 50mm diameter ABV (Air	5	Job	19394	96970
	Release valve) as per IS 14845 to be fitted to GJ rising Main. The ARV		1		
	Shall have the following specifications: i. Valve type - single				
	chamber, single orifice.ii. End connection - flanged ends to IS 1538 III				
	Working temperature - 20°C to 45°C iv. Test pressure - hody /				
	seat 2.5 x PNv. Sealing ring - EPDMvi. Construction -ductile iron				
	with stainless steel floatsvii. Coating - epoxy with corrosion resistance				
	presure rating = PN 1.6/16Besides the above works. The job also cost on				1
	account of P/F R.I gasket, nuts and bolts required for installation of ARV				
	and arrangement of gas cutter/ welding set at site. The job also includes				
	cutting of 50 mm dia hole in rising main and P/F of 50 mm dia. M.S Pipe				
	one feet long with one end flanged perfectly adaptable to Flange of ARV				
	and other end welded to 50 mm dia hole of rising main.				
24	Fabrication of platform to prevent the ingress of forign matter into the				0
	well and to bear the load of pumping unit, column pipes etc by way of				
	providing and fitting of Steel work welded in built up sections/framed				
	work, including cutting, hoisting, fixing in position and applying a				6.6
	priming coat of approved steel primer using structural steel etc. as				
	required. The job involves following steel details:				
25	i. In stringers , treads , landings etc of stair cases including use of	250	Kg	141.4	35350
	chequered plate wherever required, all complete	250	ng.	171.7	33330
26	Fabrication of gantry mechanism /sleeping bed by way of providing	3560	Kg	138.2	491992
	Structural steel in built up sections, trusses and framed work, including	3300	ng	150.2	471772
	cutting, hoisting, fixing in position and applying a priming coat of				
	approved steel primer all complete welded				
27	Steel work in built up tubular (round, square or rectangular hollow tubes	1030	kg	169.92	175017.
	etc.) trusses, construction of liner etc. including cutting, hoisting, fixing	1030	ng	109.92	1/301/.
	in position and applying a priming coat of approved steel primer,				
	including welding and bolted with special shaped washers etc. complete				
28	Providing, installation and testing of manual type triple spur gear chain	1	job	62972	62972
	pulley block along with monorail geared travelling trolley having	1	100	02972	02972
	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				6
	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		1		
	against any failure. The main specifications of C.P Block are given below:				46/
	Make = Reputed make				
	Capacity = 3 ton				1
	No. Of load chain falls = 2 or above				
	Min. Height of lift = 6 M				
		1	Job	670548	670548
29	Supply, installation, commissioning and creation of pole mounted.		100	070340	0/0548
29	Supply, installation, commissioning and creation of pole mounted, outdoor type Electric Sub Station as per the technical specifications given	19			
29	outdoor type Electric Sub Station as per the technical specifications given				
29	outdoor type Electric Sub Station as per the technical specifications given here under -Specifications conforming to IS: 1180 (Part 1) 2014 with				
29	outdoor type Electric Sub Station as per the technical specifications given here under -Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer Type of cooling:				
29	outdoor type Electric Sub Station as per the technical specifications given here under -Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer Type of cooling: ONAN. Operating conditions: Input = 11000 voltsOutput = 433 volts AC			A	
29	outdoor type Electric Sub Station as per the technical specifications given here under -Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer Type of cooling:				



E					
	and the strips shall be of suitable size and gauge. Transformer Colle:				
1	Suitable number of HT and LT coils in each leg of the core. The				
	transformer coils shall be fabricated out of superior quality copper				
	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 jel crystals, conservator				
	with oil level indicator, explosion yet 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.				
	Rating: 250 KVA HT Transformer, 3 phase (Level 2).			000000	235000
9.0	Rating: 160 KVA HT Transformer, 3 phase (Level 2). With aluminium	1	Job	235000	233000
1	winding	annug gryskin		-	00400
30	Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps	800	Kg	123	98400
31	Supply, Installation, Testing and commissioning of Polymeric Gang	4	Job	11730	46920
	operated Air break switch, outdoor type, triple pole, suitable for vertical				
	installation, single break provided with locking arrangement at both ON				
	and OFF position consisting of HT post double insulator, copper or copper				
	alloy high pressure heavy contact assembly, 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 200A complete as per IS specs.				
32	Supply, Installation, Testing and commissioning of 11KV polymer fuses	2	Job	4983	9966
	Set Horn Gap 3-phase 200 A suitable for vertical installation.				The state of the s
33	Supply, Installation, Testing and commissioning of Gapless Surge arrestor	2	Set	7754	15508
	station class, 10KA, 9KV, LA With polymer housing, Station Type.				THE RESERVE OF A STREET, SANS
34	Supply and fitting of 11 KV polymeric composite pin insulator 12 KV,	6	Job	347	2082
	5KN, Lighting impulse 75KV Positive, and 80 KV Negative, creepage				
	distance 320 mm				to the Barrel and an investment of the second
35	Supply, installation, errection of 9 mtrs long H.T pole of specifications ST-	4	No	20686	82744
	410 (sp-33) . The job further includes drilling of holes for installation of				
	various accessories .wherever required. The job further includes GI wire				
	earthing of pole as per REC standard.				
36	P/F of Galvanized nuts, bolts of various sizes as per site requirement.	60	Kg	142	8520
37	P/F Danger Plate with clamps	4	No	153	612
38	Providing and fixing G.I Barbed wire for anti climbing	20	Kg	136	2720
39	Providing and fixing of anti climbing devices with clamps	4	No	421	1684
40	Painting of poles Red oxide	4	Lit	306	1224
42	Painting of poles Aluminum paint	4	Lit	510	2040
43	Providing and fitting of ACSR as per IS 398 (part-2) 1996 for 50 sq.mm	30	M	56	1680
	ACSR (Galvanised steel reinforced) for fitment of various accessories	0.0		00	1000
44	Supply, Installation and Testing of 50 Sq mm XLPE Aluminum H.T cable	50	M	930	46500
	(ABC type) of 11 KV grade with following specs.	00		750	40300
	Size (cross sectional area in sq mm) = 3×35 with reinforced wire				
	Phases: Red, Yellow, Blue		1		
45	Providing and fitting of Anchoring clamps comprising clamp body, plastic	4	Job	457	1828
	wedge, steel bill bracket, straps and buckles or nuts and bolts required for		100	737	1020
	holding of 3 – Core, 50 Sq. mm H.T AB Cable.			14	
16	P/F of 11 KV cable termination kit for connecting 50 Sq mm XLPE cable	8	Job	8994	71052
. 0	(ABC type) with the existing HT line near tapping point and 250 KVA HT	U	100	0974	71952
	transformer.			7	
17	LI GILLON IIICH	1	Joh	225600	225,000
T/	Fabrication, Providing and fitting of Modular motor control panel of	1	Job	335600	335600
	appropriate size fabricated out of 14 SWG sheet having required				
	openings/vents and protection Class: IP-55 & fitted with accessories as				
	under:a) Bus bar Chamber:The bus bar chamber shall be fitted at the top	e de			
	of the panel horizontally throughout the length. There shall be 3 Nos. of				
	phase bus bar and 1 No neutral bus bar and 1 No earthing bus bar. The		ATT		
	prince but has a red red of but but and a red car timing but but. The	1	1 1	100	



	The bound III				
	bus bars shall be air insulated and made-up of high conductivity COPPER having size (10 mtrx (total length) 03 mt 0 000	-	1	Y	
	t and the city of				
	and body as per standards				
	b) Main Circuit Breaker (Incomer MCCB)type : D-sine , DN2-250NQty. = 02				
	No. of poles = 4 Pole				
	Current Rating = 160-200 A				
	Rated operational voltage = 415 V + 15 %				
	Rated frequency = 50+/-3%Hz				
	Ambient temperature = 40C'		and the same		
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 50 KA				
	Type of release = Thermal-magnectic				
	Change over Switch:				
	Qty. = 01 No.				
	Rating = 200 A	4			
	Type = Front operated, on load, 4 pole, 400 +15%V, 50 + 3%Hz.d)				
	Motor Back-up Protection MCCB:Type: D sine MCCB, Dz1-160 D				
	Qty = 2 No				
	No. of poles = 3P				
	Current Rating =84-125 A				
	Rated operational voltage = 415 V +15 %				
	Rated frequency = 50 + 3%				
	HzAmbient temperature = 40°				
	Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36 KA				
	type of release = thermal-magnetic				
	f. Submersible starters:-= Fully automatic star delta Capacity = Mug-50.				
	Relay range- 45-75 A thermal release.				
	ii. Voltage: 415 ±10 %, 3 Phase, 50 Hz ±3 % iii. iv. protection = single phasing, phase				
	iii. iv. protection = single phasing, phase				
	Reversal, phase unbalance $(55 \pm 5 \text{ V})$, iv. Rated insulation voltage = 690V				
	V. Terminal canacity = 120 Co. may with 1 0 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	v. Terminal capacity = 120 Sq. mm with lug Or above Conformity to standard = IS/IES 60947-4-1				
	vi. Qty. = 2 No's				
	f) Auxiliary MCCB for Heating/Lighting:				
	Circuit Breaker = MCCB Qty. = 1 No.				
	No. of poles = 4P				
-	Current Rating = 63 A				
	Rated operational voltage = 415 V + 15 %				
	Illeliments CCO III C				
	Protection Relay:Digital Motor Protection Relay with LCD Display for 3-				4.00
	phase supply with following protections suitable for the Modular Control				
	Panel:-Protections = Thermal Overload with pre-alarm, Short Circuit,				
	Phase Loss, Unbalance, Phase reversal, Under Current, over current,				
	Prolong starting, Locked Rotor, Under voltage, over voltage & Earth fault			. 1	100
	i. M-power module for mobile starter for submersible PUMP 1P/3P 3 wire				179
	IVRS Languages – English, Hindi, Suitable Region- North India The				
	IVRS Languages – English , Hindi, Suitable Region- North IndiaThe panel shall be provided with phase indicators (03 NO) and digital ammeter				
1	of range 0-200 A, digital voltmeter of range 0-500 V, and digital frequency				
1	meter. The enclosure of the panel shall be of excellent fit and finish,				
1	corrosion resistant and powder coated gliding hinges for smooth and				
	noiseless movement of windows and advanced locking arrangements.			4.5	The state of the s
	arrangements.				
+	Fabrication, Providing and fitting of Modular motor control panel of		12		
	appropriate size fabricated out of 14 SWG sheet having required	1	job	385800	385800
	openings/vents and protection Class: IP-55 & fitted with accessories as				
-	accessories as	10.1			



48





1						
	under:a) Bus bar Chamber:The bus bar chamber shall be fitted at the top			NAME OF THE OWNER OF THE OWNER		At a long state of the state of
	of the panel not thought the langer Than a life in the control of					
	phase ous out and I NO neutral buc har and 1 Mo cambing 1					
1 1	bus bars shall be all illstillated and made up of blab cand					
	having one (As into A (total) engin) 11/ mirv n nn2 menulish account					
1	density of suitable rating for 200 Ampere. All panel compartments shall be					
,	provided with suitable cable allowed and panel compartments shall be				j	
	provided with suitable cable alley and vertical bus bar alley. Suitable				1	
1.	segregation shall be provided in between bus bar chamber and adjoining					
	comparements, the bus par shall be PVC sleeved with color strips of rod					
	chow, blue and black and the same he arranged in accordance with 10.					
1	or 5 speed, dieculted clearances shall be maintained between phages					
	neut at and body as per standards,b) Main Circuit Breaker (Incomer					
1	Free Brype: D-sine, DN2-250NOty. = 02No. of poles = 4 Pole Current					
	Rating = 160-200 ARated operational voltage = 415 V + 15 %Rated					
	frequency = 50+/-3%HzAmbient temperature = 40C'Ultimate S.C					
	Breaking Cap. at (415V AC, 50 Hz) = 50 KAType of release = Thermal-					
	the many be marry pe of release - merman					
	- Of Howarding					
	3%Hz.d) Motor Back-up Protection MCCB:Type: D sine MCCB Dz1-160 D					
	Qty = 2 NoNo. of poles = 3PCurrent Rating =84-125 ARated					
	operational voltage = 415 V +15 %Rated frequency = 50 + 3%					
	HzAmbient temperature = 40C°Ultimate S.C Breaking Cap. at (415V					
	AC, 50 Hz) = 36 KAtype of release = thermal-magneticf. Submersible					
	starters:-= Fully automatic star deltaCapacity = Mug-75 . Relay					
	range- 66-110 A thermal release. ii. Voltage: 415 ±10 %, 3 Phase, 50 Hz				1	
	±3 % iii. iv. protection = single phasing, phase					
	Reversal, phase unbalance (55 ± 5 V) ,iv. Rated insulation voltage =					
	690Vv. Terminal capacity = 120 Sq. mm with lug Or above Conformity					
	to standard = IS/IES 60947-4-1 vi. Qty. = 2 No'sf) Auxiliary MCCB for					
	Heating/Lighting:Circuit Breaker = MCCB Qty. = 1 No.No. of poles =					
	4PCurrent Rating = 63 ARated operational voltage = 415 V + 15					
	%Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 16 KA. g) Motor					
	Protection Relay: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, Unbalance, Phase reversal, Under Current, over current,					
	Prolong starting, Locked Rotor, Under voltage, over voltage & Earth fault i.					
	M-power module for mobile starter for submersible PUMP 1P/3P 3 wire					
	IVRS Languages – English , Hindi, Suitable Region- North IndiaThe					
	panel shall be provided with phase indicators (03 NO) and digital ammeter					
	of range 0.200 A digital archer of range 0.500 M. digital ammeter					
	of range 0-200 A, digital voltmeter of range 0-500 V, and digital frequency					
	meter. The enclosure of the panel shall be of excellent fit and finish,					
	corrosion resistant and powder coated gliding hinges for smooth and			1		
10	noiseless movement of windows and advanced locking arrangements.					
49	Providing, fitting, testing and commissioning of voltage stabilizer as per					0
	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					42000
	C/S.Windings: Electrolytic grade copper of adequate section, vacuum					
	Immunos at all and Own did the last	1	1	1		
	impregnated and Oven-dried.insulation: Fiber glass insulations to tested	1	1			
- 1	impregnated and Oven-dried.Insulation: Fiber glass insulations to tested parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above					
ł	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts					
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty cycle: 100%	2				
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty cycle: 100% continuous.Enclosure: MS sheet enclosure in pressed CGR Sheet nowder.	2				
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty cycle: 100% continuous.Enclosure: MS sheet enclosure in pressed CGR Sheet powder	8				
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty cycle: 100% continuous.Enclosure: MS sheet enclosure in pressed CGR Sheet powder coated with radiators.Core laminates: High grade, low eddy loss grain					
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty 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 motors.	2				
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty 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: 1006	2				
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty 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 Toil					
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty 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					
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty 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 bousing 02					
	parameters.Cooling: Naturally, Oil cooledTemp. Rise (Max): 30°C above ambientMounting: On Uni-directional wheels.Correction rate: 30 volts per stepWave form distortion: virtually nilDuty 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					

				and the state of t	Management of the Parket
M	No's).Insulating media (T. Oil) of 11 KVA grade to be provided and filled	ngi mana andanana	to proceed the second	**************************************	A commence of the contract of
-	and shall have name plate with engineering				
19.01	i. Rating= 75 kva	1	job	100001	195721
	and at a common continuous make the common common tool lines or		300	195721	193161
19.02	ii. Rating 50 KVA	1	Job	127401	127401
			Jon	127901	12/701
9.03	ii Rating = 150 KVA	1	job	462000	462000
		1	100	402000	402000
50	Providing and fitting of 3-Core flat submersible copper cable conforming			1	0
	to IS: 694 (Part 1st) - 1964 & IS: 694 (Part 2nd) - 1964 for Submersible				
	t amping out and other electrical Equipments. The cable connections		-		
	terminal shall be litted with copper thimbles of required size				
50.0	Size: 16 sq.mm	180	M	711	127980
	·	100			
51	Providing and Fitting of 3 /3.5/2-Core, XLPE Armoured Aluminium		1		0
	/copper Cable conforming to IS: 7089 part 1st as service line from the HT				
	transformer to control panel including necessary thimbling, crimping,			i i	
	taping etc.NOTE:- The cable terminal ends for connection to switchgear at				
	various requisite points shall be Al. Thimbles of dowel's make and of		7		
	appropriate size and connected by hydraulic crimp tool only.				Shalat area - Stran ar Stransland (see Street September 1990)
51.0	i) 95 sqmm , 3.5core, LT ,1.1 KV alluminum cable	50	M	837	41850
_1					processor and an incompanies of the second
51.0	ii. 95 sq.mm single core LT, 1.1 KV Copper cable	90	m	1350	121500
2					
51.0	ii) 10sqmm, 2 core, LT , 1.1 KV alluminum cable	90	М	162	14580
<u>3</u>	D/L-C				44646
32	P/I of earthing station for substation, LT panel, DG set and stabilizer	4	No	10462	41848
	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	174			
	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				
53	Illumination of Premises:Providing and erection of 9 Mtr long Hot Dip	2	Job	22226	44452
	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			2	
	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 to be 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.				
54	Providing, installation, testing and commissioning of area lighting 120	6	loh	0406	21041
	Watt LED (Street Light Type) on top of octagonal pole vide item No.36	U	Job	9486	56916
	Having following specs:			110	
	Input: 90-240 V 50 Hz				
	Power Factor: >0.9			100	
	Colour Temperature: 4K - 6.5K				
	Beam Angle: 120° - 170°				
	Lumens: >12000				
	Operating Temperature: -20°C to 60°C				
	The LED is pressure die cast aluminum housing with power coated finish	<u> </u>			



E					
1	and having Ingress Protection up to IP-68.		1	The second secon	The late of the la
	The i.E.D is to be properly fitted on the arm of the pole and connected to				
	the copper wire as directed				
	Providing, Installation and testing of 2KVA fully automatic voltage	1	lab	0161	64.64
0	stabiliser with input voltage 70-240 V and output 220 V. The stabilizer	I.	Job	8154	8154
	shall be installed and connected to the electric circuit as per location				
	provided by site incharge.				
	The state of the s				
8	Supply, installation, Testing & commissioning of 1000VA Full Sine wave	1	job	34053	34053
	power inverter (Make: Microtek/Luminous) including Providing /				
	installation of 12V, 180AH Tubular inverter Battery with trolley and				
	cover. (Make: Amaron /Exide) with 2-core 6mm2 Cu 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.			1000	0.1100
19	Providing, laying & fixing with adhesive/bonding material of insulation	20	M	1205	24100
	Fubber mats on the floor of the pump house, covering area around electro-				
	mechanical machinery for safeguarding the life & limb of the workmen				
	due to possible leakage of current & short circuit. The floor surface shall				
	be made good & shall be free from dust, grease, foreign material &				
	moisture free. The mats shall be as per IS 15652:2006 & shall have the				
	following specifications: -Composition: Rubber (synthetic mats for				
	electrical purpose)Thickness: - 2.5mm Size: - 1M wide.The rubber mats				
	shall be accepted with manufacturers test certificate.	1	Yeh	28840	28840
50	TOOL KIT for Maintenance:	1	Job	20040	20030
	The Tool Kit for maintenance shall comprise of the following and all the			1	
	Items as mentioned below shall be of : Providing of tool kit consists of following items				
	i. Double ended Spanner (Chrome plated) of size in mm				
	6/7,8/9,10/11,12/13,14/15,16/17,18/19,20/22,21/23,24/26,25/28,				
	24/27, 30/32 each - 02 no.				
	ii. double ended Ring spanners chrome plated of size in mm				
	6/7.8/9.10/11,12/13,14/15,16/17,18/19,20/22,21/23,24/26,25/28,				
	24/27, 30/32 each - 02 no.				
	tii. Allen key set black finish of size in mm 1.5, 2, 2.5, 3, 4,5,6,8,10 each -				
	2 NO.				
	iv. Combination Pliers insulated with thick C.A sleeve; size in mm 165,				
	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 - taparia each - 02 No. vii. Insulated screw Drivers				
	Blade length in mm Blade dia. in mm Tip dimensions in mm Quantity				
	50 3 1.6 x 0.4 02				
	75 3 1.6 x0.4 02				
	100 3 3 x 0.4 02				
	125 3.5 3.5 x 0.5 02				
	150 3.5 3.5 x 0.5 02				
	200 4 4 x 0.6 02				
	300 5 5 x 0.8 02				
	viii. Hammer with handle weight - 110 mg, 340 gm, 600 gm -each -				
	1No				for a
	ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01 No				
	x. Electric Multimeter=1No				
	xi. Digital multimeter – 1No.(Fluke/Meco/scemens/Mastech)				1.14
	xii. Digital Clamp tester capable to measure up to 400A - 1 No.			113	
	xiii. Hack saw frame with hack saw blade - 01 no.				A CONTRACTOR
er (A	xiv. S-16 MXL, S-16 H X L Socket Set (19 sockets + 6 Accessories) - 01 No.				
59	Providing and fitting of 19 mm thick multilayered ply sheet of size 6 x 3	36	sft	140	5040
	feet, 2 nos including cutting, fixing all complete including painting of the			1000	
60	play sheet by one coat of primer and two coats of enamel paint		1		
60	a) Providing of good quality bedding for night stay/Shift consisting of: -i) Mattress with warm cover size 6'x3' (6Kg)- 02 No'sii) Quilt with warm	2	Job	39619	79238
	cover size 5'x8' (6Kg)- 02 No'siii) Pillows with covers - 02 No'siv) Single	2			
, and the same	Cover size 3 xo (oxg)- oz no sinj rinows with covers - 02 No'siv) Single	. 36	The state of		



-					
1	bed warm blankets with one sided Fur- 02 No's The filling material for mattress, quilt and pillow shall be of good quality cottonb) The job also includes providing of pressure cooker 5ltr 02 No's, Steel patila(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		100		
	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		TO STATE OF THE ST		
60	Door locks (03 No') Providing of solar/ electrical lantern chargeable on both solar & electrical	2	Job	1911	3822
-	220v supply.	2	Job	7350	14700
61	Providing of bamboo ladders 18 feet long along with 15 feet long Link rods and HT Glove pair (01 No each)	2	Job	1205	2410
62	Providing of 1 KW heat convector for operators for winter season. Providing and fitting of 01 No. LED (scroll type) sign board fabricated out	18	Sft	3998	71964
03	of stainless steel and metal showing the names of water supply scheme and the Department.				
64	Size: 6'x1'6" Providing and fitting of 01 No. angle iron/sheet metal board duly painted showing various specifications of the mechanical and electrical	72	sft	240	17280
65	equipments installed at site. Correspond from stone aggregate by mechanical transport including	125	cum	198.06	24757.5
66	loading, unloading and stacking (average distance-own) Carriage of soling stone by mechanical transport including loading,	15	cum	233.01	3495.15
67	unloading and stacking (average distance-5km) Carriage of cement/steel/CGI sheet/GI pipes 100mm dia and other heavy materials by mechanical transport including loading, unloading and	20	Ton	409.2	8184
68	stacking (average distance -25Km) Corrigge of GL pines 125mm dia, by mechanical transport including	600	m	13.58	8148
69	loading , unloading and stacking (average distance -25Km)	3	job	700	2100
70	load 45 KN , Lighting impulse 75 KV Positive and 80 Kv Negative , Creepage distance 320 mm Providing and fitting of G.I earthing rod for earthing of H.T Poles as per	4	job	659	2636
70	DEC Ch. = d = d				0
71	Providing, installation, Testing & commissioning of 415 ±10%V (output), 3 phase 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 D.G set must Adhere to emission standards set fourth by the central pollution control board as per CPCB-4 Norms . The DG Set is required to be fitted and tested on load at site.				
	Besides the above works the D.G set shall be provided with 12 V, 180 AH Lead acid battery of reputed make fitted inside the D.G set Canapy 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				
71.0	i. capacity of D.G set = 40 KVA Air cooled/water cooled	1	job	870000	870000
71.0	ii. capacity of D.G set = 100 KVA water cooled.	1	job	1650000	1650000
72	Providing corrugated G.S Sheet roofing including vertical/curved surface fixed with polymer coated J or L Hooks, bolts and nuts 8 mm dia. diameter with bitumen and G.I limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto any pitch in horizontal /vertical or	75.5	sq.m	913.27	68951.89

to the



1					
1	curved surface) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.50 mm thick with zinc coating not less than 275 gram/m2				
73	Providing, cutting, fitting of welded wire fence with Square mesh -2 and 14 Gauge wire diameter to be fitted on all open vertical sides of the D.G Set shed. The job includes cutting, welding, hoisting etc as per site requirement. The job further include applying of one coat of primer red oxide and two coats of enamel paint over the fence	1600	sqf	70	112000
74	Supply , installation testing and commissioning of MNX-140 FASD starter of L & T Make having following specifications i. Type: MNX-140 FASD ii. Relay range- 90-150 A thermal release. iii. Voltage: 415 ±10 %, 3 Phase, 50 Hz ±3 % iv. Contactor Assemblies (Star, delta and main contactors) = MNX-140 The job includes P/F of nut bolts, washers and fitting of same on panel board/wall. The job includes minor wiring i.e. connecting of main incoming and outgoing connection leads duly crimped with copper thimbles and testing on full load at site. The enclosure of the starter should be made of sheet metal and shall be of excellent fit and finish, corrosion resistant and powder coated gliding hinges for smooth and poiseless movement of window and advanced locking arrangements.	2	job	145000	145000
75	Providing and fitting of 11 KV polymeric Disc insulator 12KV, Min. Falling load 45 KN, Lighting impulse 75 KV Positive and 80 Kv Negative, Creenage distance 320 mm	6	job	700	4200
76	Providing and fitting of G.I earthing rod for earthing of H.T Poles as per REC Standard	4	job	659	2636
	Total				13609653.6 4

Report:

The above detailed estimate amounting to Rs 13609653.64/= has been framed to cover the cost on account of various Mechanical and Electrical works to carried out at various Water Supply Schemes of Awantipora Town . The design of electromechanical equipments has been carried out as per existing technical data and hydraulic parameters of water supply schemes of Awantipora Town.

Submitted for check and further necessary action at your end please.

Assistant Executive Engineer J/S (PHE) Mechanical S/D Pampore