				[
9	Capacitors Cubicle - Supplying, erecting bank of all polypropylene			
	capacitors with capacity 6.6 Kv ,3 phase ,600 KVAR or as per the			
	actual requirement (app.)suitable for maintaining motor PF above	8		
	0.95			
10	Soft Starter - FCMA Soft starter - Supplying & erecting at site	0		
	work , testing and commissioning of FCMA electrical soft starter	8		
	suitable for above motors as per 6.6 KV and 1870 KW Motor.			
11	H.T. Panel (6.6 KV, 21.9 KA) - Providing, installing &			
	testing of sheet steel, dust & vermin proof, indoor, floor, mounting			
	type H.T. panels, complete assembled wired tested, painted			
	conforming to relevant ISS complete, suitable for following duties,	1		
	specification and conforming to detailed specifications (2 I/C ,1			
	B/C, 8 M/F, 2 spare M/F, 2 Capacitor Cubicle, 1 Aux Transformer,			
	i.e. Total 16 Nos)			
	The HT Panel includes 6.6 KV Potential Transformers, Current			
	Transformers, HT Fuses, Motor Protection Relays, Over Current &			
	earth Fault relays, Under Voltage Relays, Trip Circuit Supervision			
	Relays, DC Supervision Relay, Tripping & Interlocking Relays,			
	with adequate Capacity Bus Bar, Annuciators, Indication Bulbs,			
	Control Swithches, Voltmeter, Ammeter, Fuses with all required			
	Relays, Contactors, Earthings, Rubber Matings etc. for fulfilling			
	electrical Control & Protection of the Schemes			
	A] VCB Capacity - 3000 Amps each for 2 I/C Breakers, 3000			
	Amps for 1 B/C, 1200 Amps For 8M/F; 1200 Amps for 2 spare,			
	1200 Amp for 1 Capacitor Feeder, 1200 Amp for Aux Transformer			
	feeder)			
12	L.T. Distribution Panel- Providing installing at site of works			
	and testing 415 volt, 3 Ph, 50 Hz. 250 A, distribution L.T. Panels			
	comprising of following and as per detailed specifications.			
	I. 415 V,400 A, A.C.B. for Aux. transformer Incoming			
	feeder2 No. & 1 for DG Incomer 200 Amp.with Bus Coupler			
	facility	1		
	II. 415 V, 100 Amp . H.R.C.Switch fuse unit – 8 Nos	1		
	III. 415 V, 63 Amp H.R.C.Switch fuse unit :-8 Nos			
	IV. 415 V, 32 Amp ,H.R.C.Switch fuse unit No. 12 Nos			
	V. 415V, 16 Amp, HRC switch Fuse unit 10 Nos			
	VI. Electric Motor starters D.O.L. type - 8 Nos			
	reversible, push button operated suitable for B.F. valves.			
13	Batteries, Battery Chargers and D.C. Distribution Board			
	(D.C.D.B)-	1		
	Providing installing at site of works and testing batteries,	1		
	battery chargers & D.C.D.B. Complete unit comprising of			

	fallowing and as non-datailed analitications			
	following and as per detailed specifications.			
	I. Maintenance Free, Dry Type Batteries with 55 cells, 2 Volt			
	each total 110 volt D.C. 250 Amp. Hour capacity along with all accessories.			
	II. 2 sets of battery Charger of float cum boost having rating 30			
	Amps.			
	III. DCDB would have 15 Nos. of feeders.			
	IV. D.C.D.B. comprising of two incoming, Double pole Miniature			
	Circuit Breakers (MCB) 50 Ampere and 10 Nos. 16 Ampere			
	outgoing feeder with MCB, 5 Nos of 10 Amp or switch fuse unit,			
	complete with accessories etc. The spares for the Charger &			
	DIstribution Board Panel such as Thyrister Card, etc. should be			
	provided 1 no each per panel.			
14	Preparation of cable schedule and supply, Installation, testing			
	Cables-			
	Providing installing at site of works & testing suitable of HT Power			
	Cable with termination Kit, LT Power cables & wires complete as			
	required for the pump house.			
	1.HT Cables and required termination kit (as per actual) 6.6kv,	1		
	XLPE, insulated, AL conductor Armoured cable 3x95mm2, length	1		
	as required.			
	2. LT Power and Control Cable with Glands & Lugs complete			
	required as per actual			
	3. Control & Screened Multi Core Cable standard Cu Conductor as			
	per actual.			
15	Earthing- Providing, installing & Testing Copper Bonded MS Rod			
	of 3 m each Length and Earth Resitistivity enhancing compund as			
	per approved Make at site of works earthing comprising of adequate			
	No. of earth stations, earth bars & individual double earthing to all			
	electrical equipments such as Motors, SoftStarters, HT Panels,	1		
	Temp Scaner Panels, Remote Control Panel etc .Complete			
	supplying, erecting GI strip of required size iron sheet metal work			
	consisting of CRCA sheet ,rod,bar,MS plate etc fpr panel board or			
	any other purpose completing with bending			
	,cutting,drilling,welding .			
16	Water Level Indicators- Providing installing at site of works &			
	testing water level indicators operating on 230 Volts, 50 Hz, A.C.	1		
	supply and as per detailed specifications			
17	Temperature scanner panels- Providing installing and testing of			
	temperature scanner panels for each HT Motors suitable for			
	operating at 110V DC or 230V ACmounted in a duly painted	1		
	enclose in a panel provided with NO/NC relay for transmitting			
	signals to VCB for trippng with audible alarm for both winding			

23	The fighting system to complete pump house			
	Fire fighting system to complete pump house	1		
22	Air conditioning to control room	1		
21	Complete electrification to complete pump house	1		
20	Spares & Tools - Providing at site of works tools & spares complete as per detailed specifications.	1		
19	Testing ,commissioning ,trial operation & training to the department staff	1		
18	 and bearing RTDs with all other accessories for satisfactory functioning of system etc. complete as per specification ,terms and condition of contract .Temperature scanners having 16 point each to monitor HT motor winding and bearing temperature . Remote Control Panel- Providing installing at site of works & testing of sheet steel, floor mounted, vermin proof & powder coated & Tropicalised Remote control Panels with control switch, Ammeters Annunciation facia windows, indication lamps etc. for control & monitoring of breakers, pumps/motors, ancillary equipments, panels etc. suitable as per requirement 	1		

Note- 1. The rates are required for the estimation purpose only as per guidelines of the prevalent Govt. Resolution dated 3 june 2010.

2. The rates such as GST, Insurance and other relevant taxes, if any should be mentioned separately.

2. The details of rates in the prescribed format in sealed envelope should be reach in the office of Executive Engineer, Mechanical Division, Solapur on or before 24/11/219.

3. Sealed envelope will be opened on date 24/11/2019 at 2:00 pm if possible and will be submitted to the Competent Authority for the Submission of the Rates for further action

(U.P.Jadhav) Executive Engineer,

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