

Table Ab11 - Bill of Quantity for Electricals and Mechanicals Works S.P.S.: UGLS-4

Sl No	Description	Unit	Quantity	Rate in Figures23	Total Amount
1	2	3	4	5	6
A	Supply, Storage, Testing, installation, commissioning and trial run of 3 month of following.				
1	Sub Station				
	Power Connection				
1.1	Obtaining Power Supply connection from nearest power source to UGLS MCC cum LT panel with all associated works as per Technical specifications and direction of EIC.	Job	1		0
2	Pumping Station (Electrical Work)				
2.1	Supplying, installation of MCC cum LT Panel (IP 65) suitable for outdoor installation in 3 mm sheet steel fabricated, powder coated kiosk on road side, with necessary incomer, pump motor starters including metering and protection danger board and all other accessories as required for water level signal based complete automatic operation of pump motors with manual over ride arrangement.	Job	1		
2.2	Supply, laying of 3.5 Core XLPE, L.T Cable from power source to MCC cum LT Panel of required size as per load and suitable size gland and lugs.	Job	1		
2.3	Supply, laying of 3 Core, Al. conductor XLPE insulated, L.T Cable from MCC cum LT Panel to motors of required size as per load and suitable size gland and lugs.	Job	1		
2.4	Supply, fitting, fixing of Perforated Galvanized Cable tray of required sizes including supply of 25x6 mm Galvanized MS hangers, SS 304 anchor fastener and all accessories complete including fixing the tray suspended from the roof slab / below the floor slab etc. including cutting chipping, grouting and mending good damages, painting, earthing all installation materials as per specification.	Job	1		
3	Earthing the whole installation as per IS -3043	Job	1		
4	Pumping Station (Mechanical Work)				
4.1	Supply, fitting, fixing of Manual Screen of SS 304 Bar Screens with anchors, fasteners, brackets and all accessories complete as per Tender Specification	Set	1		
4.2	Supply, fitting, fixing of Submersible Pump Motor Set as per required discharge capacity and head along with all accessories	Job	1		
4.3	Supply, fitting, fixing of CI Sluice Gate of required size manually operated with rising spindle conforming to IS: 13349 with anchor fasteners, brackets and all accessories complete.	Job	1		
5	Piping and Valves				
5.1	Supply, fitting, fixing of Sluice Valve : CI/ DF of required size for individual pump delivery line & common delivery line.	Job	1		

5.2	Supply, fitting, fixing of Reflux Valve for individual delivery line.	Job	1		
5.3	Supply, fitting, fixing of Air Release Valve for common delivery line.	Job	1		
5.4	Supply, fitting, fixing of MS/DI dismantling joint as per requirement and departments approved drawing and specifications, including machining and rubber ring and suitable for working pressure with required flanges of suitable side with nut and bolt etc. complete, the joint should have long bolts so that during normal working pressure there should be no sliding movement of sliding flanges LOF (length over flange) should not be less than 75% of dia	Job	1		
5.5	Supply and laying of CI /DI DF Pipes conforming to IS specifications of required size and PN rating including specials and fasteners for installation in Pump house.	Job	1		
5.6	Pressure Gauge				
	Supply, fitting, fixing of Pressure Gauges of 0-5 Kg/sq.cm as required	Job	1		
6	Level Measuring System				
	Supply, fitting, fixing of Ultrasonic type Level Indicator-Transmitter suitable for measure liquid level in the sump upto specified depth with microcontroller based system. The 6 digit LCD display Indicator shall be installed in the MCC cum LT Panel, rigid/flexible type electrode of SS 316, PTFE sheathed as per technical specification including supply, laying, termination of signal cables as required and direction of the EIC.	Job	1		
7	Flow Measuring System				
	Supply, fitting, fixing of Electromagnetic Flow Meter including all materials and making connection with pipeline complete in all respect as per technical specification and as per direction of EIC.	Job	1		
8	Spares				
	Supply of recommended Spare parts of pumps.	Lot	1		
9	Supply, fitting, fixing of MS Chequered plate of 8 mm thk. and Guards as required.	Job	1		
10	Supply, fitting, fixing of Danger Boards/Labels	Set	1		
10.1	Supply of 11 KV Safety hand Gloves (1 pair,) & 1100 volts grade hand gloves(2 pairs)	Set	1		
11	Painting				
	Painting of all pumps, piping and Valves etc.	Job	1		
12	Commissioning and 3 months trial run for the entire installation	Job	1		
			Total Cost		
			Amount in Words		