

Name of Work: Design manufacture, supply, erection, testing and commissioning etc. complete job as per requirement of pumping machinery 2 Nos. 120 HP each (tentatively) and allied equipments for **Awarde** Tal. Patan Dist. Satara. Lift Irrigation Scheme Maharashtra State.

Item No	Discription	Qty.	Unit	Rate	Amount in Rs.
1	Vertica Turbine Pumps 1) Duty point Discharge per pump=0.1145Cub.m/sec. 2) Duty point head= 64.98m 3) Head range= 56 to 84m 4) No. of impeller stages=2stage 5) Pump HP=120 HP 6) Max. syn. RPM= 1500 rpm 7) Column Pipe Diam. =250mm 8) Delivery Pipe Diam.= 250mm 9) Delivery Pipe thickness = 5mm 10) No. of pumps working in parallel=2 11) Self Water lubricated	2	Nos		
2	Non-Return Valve with bypass arrengment Diam.=250mm P.N. rating=1.6	2	Nos		
3	Butterfly valve with electrical actuators & inbuilt starters with bypass arrengement Diam. = 250mm P.N. rating = 1.6	2	Nos		
4	Kinetic air valve Inn Diam.= 50 mm & P. N. rating 1.6	2	Nos		
5	Delivery pipe Diam. = 250 mm Lenth 15 Mtr. Wall thickness =5mm	30	Mtr.		
6	Dismantaling Joints Diam.= 250 mm wall thicknees = 5mm				
7	Induction Motor:- Providing & Erection & giving test & trial of vertical solid shaft induction Motor (TEFC) with 1500 RPM & 98 KW confirming to 15-325 having continuous rating suiable for operation @ 415 Volt + 10% 3 phase, 50 Hz+ /3%, with "F" class insulation, tempreture ride limited to class B sulation. as per standard IS code required	2	Nos		
8	Capacitors:- Providing & Installing at site of works & Testing of 415 V, 3 phase, 50 Hz & suitable KVAR Capacitor cubicles for the motors to impure the power factor to 0.95 . The capacitor cubicles should be corprised of suitable capacity HRC fuses, Insulation suitech, earthing terminals with proper connection with motor the XLPE cubicles.	2	Nos		
9	ATS Starter:- Supplying & erection fully automatic star delta starter to operate induction Motor working on 380-440 V, 3 phase 50Hz with 40 volt coil , overload clemant & ON OFF push buttons with necessary material & connected to supply 120 HP for two motors of 98KW.	2	Nos		

10	L T. Distribution panel 415V, 3Ph, 50Hz 1ACB-630 Amp Switches. 63 Amp.-3 No.s, 32 Amp-4 No s, 16Amp.-3 Nos & 16 Amp MCCB Double pole-4 Nos, with change over switch 200A.	1	Set.		
11	preparation of Cable schedule, cable tray and supply, installation and testing of Power LT & Control cables etc. Complete.	1	Set.		
12	Earthing to above specified equipments	1	Set.		
13	Providing & Erecting & Connecting 5 Tonne Capacity Aux. hook, Single girder with micro-speed facility for main hoist.	1	No.		
14	Testing , Commissioning Trials and operataion etc.	1	Job		
15	Spares & tools required as per attached list of 1 No. pump set	1	Set.		
Total					

NOTE:- The detailed technical specifications are as per standard DTP of Pumping machinery WRD (Govt. of Maharashtra)

Executive Engineer,
Tembhu Lift Irrigation Mechanical & Electrical
Unit Ogalewadi, Karad

Name of Work Design manufacture, supply, erection, testing and commissioning etc. complete job as per requirment of pumping machinery 2 Nos. 296 HP each (tentatively) and allied equipments for **Konjawade** Tal. Patan Dist. Satara. Lift Irrigation Scheme Maharashtra State.

Item No	Discription	Qty.	Unit	Rate	Amount in Rs.
1	Vertica Turbine Pumps 1) Duty point Discharge per pump=0.2610Cub.m/sec. 2) Duty point head at POL = 72.22m 3) Head range= 56 to 84m 4) No. of impeller stages= Single stage 5) Pump HP=296 HP 6) Max. syn. RPM= 1500 rpm 7) Column Pipe Diam. =400mm 8) Delivery Pipe Diam.= 400mm 9) Delivery Pipe thickness = 5mm 10) No. of pumps working in parallel=2 11) Self Water lubricated	2	Nos		
2	Non-Return Valve, PN rating 1.6 with bypass arrengrment Diam.=400mm P.N. rating=1.6	2	Nos		
3	Butterfly valve with electrical actuators & inbuilt starters with bypass arrangement Diam.= 400mm P.N. rating = 1.6	2	Nos		
4	Kinetic air valve -double orifice type Inn Diam.= 100 mm & P. N. rating 1.6	2	Nos		
5	Delivery pipe Diam. = 400 mm Lenth 15 Mtr. Wall thickness =5mm	30	Mtr.		

6	Dismantling Joints Diam.= 400 mm wall thickness = 5mm	2	Nos.		
7	Induction Motor :- Providing & Erection & giving test & trial of vertical solid shaft induction Motor (TEFC) with 1500 RPM & 235 KW, 3.3 kv conforming to IS-325 having continuous rating suitable for operation @ 415 Volt + 10%, 3 phase, 50 Hz+ /-3%, with "F" class insulation, temperature rise limited to class "B" insulation. as per standard IS code required	2	Nos		
8	Capacitors:- Providing & Installing at site of works & Testing of 3.3 KV, 3 phase, 50 Hz & suitable KVAR Capacitor cubicles for the motors to improve the power factor to 0.95 . The KVAR capacitor of the capacitors should not exceed the magnetizing KVAR of motor.	2	Nos		
9	H. T. Panel with of following specifications Voltage rating 3.3 KV ,3Phase, 50 Hz incomer feeder-1No.,630Amp. VCB Motor feeder-2Nos.+ 1 Spare, 630 Amp., VCB with provision of ON/OFF button of each feeder from remote end and necessary control relays meters, logic control wiring, indicators etc.	1	Set.		
10	L T. Distribution panel 415V, 3Ph, 50Hz 1ACB-630 Amp Switches. 63 Amp.-3 No.s, 32 Amp-4 No s, 16Amp.-3 Nos & 16 Amp MCCB Double pole-4 Nos, with change over switch 200A.	1	Set.		
11	DCDB Battery (Dry type), Battery charger 110V 160 Amps-Hours.	1	Set.		
12	preparation of Cable schedule, cable Trays supply, installation and testing of Power HT. LT & Control cables etc. Complete.	1	Job		
13	Earthing to above specified equipments	1	Set.		
14	Temp. Scanner Panel	1	No.		
15	EOT Crane 5 Tonne Capacity, Aux hook, Single girder with micro-speed facility for main hoist	1	No		
16	Testing , Commissioning Trials and operation etc.	1	Job		
17	Spares & tools required as per attached list of 1 No. pump set	1	Set.		
				Total	

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Executive Engineer

Executive Engineer,
Tembhu Lift Irrigation Mechanical & Electrical Unit
Ogalewadi, Karad

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