

**GENERAL ABSTRACT OF 'BOQ'**

NAME OF WORK : Replacement of 40 HP Vertical turbine pump set, Supply, delivery and fixing of panel board and Supply, delivery and Jointing of cable under under CWSS to Bargur UTP and 29 other Habitations in Bargur and Kaveripattinam union of Krishnagiri District

Sl. No.	Quantity		Name of Component	Ref. To Manual	RATE		Unit	Depart ment Value(Rs.)
					In figures.	In Words.		
1	2		3	4	5	6	7	8
1			Supply on delivery of vertical type Water/ oil lubricated statically, dynamically, hydraulically balanced turbine pump capable of discharging the following duty Condition as given below due to all cause with the surface discharge head confirming to IS 1710 and as amended as on date with accessories as per IS 5120/1977(Reaffirmed 2011 ) and as amended thereafter to suit the site condition. The speed, No. of stages,sizes of column pipes and line shaft indicated is based on site condition prevalling during investigation. The pump should be supplied with non reversible ratched pin housing safely clutch,suction strainer etc. The pump bowl assembly shall be with bronze impeller running at 1450 rpm. The pump includes suitable head shaft and suitable 1.5 m long SS line shaft required Nos., to Suit the well depth ,rubber line shaft bearing of required Nos.,C.I bearing retainer of required Nos, 100 itrel HDPE pre- lubricating tank with 20 mm PVC rigid pipe connection along with GM gate valves, Suitable ERW column pipe of each 1.5m long of required Nos. to suit the well depth, Suction bell mouth of suitable size, M.S. clamps suitable for column pipe/line shaft -2 set and Spanner - 1 set etc complete.	As per IE Rules & Spl.specification and IS 1710 and as amended as on date with accessories as per IS 5120/1977(Reaffirmed 2011 )				
a	1.00	Each	3000 lpm X 50m		1222000.00	Rs. Twelve lakh twenty two thousand only	1 No (One Number)	1222000.00

Sl. No.	Quantity		Name of Component	Ref. To Manual	RATE		Unit	Depart ment Value(Rs.)
					In figures.	In Words.		
1	2		3	4	5	6	7	8
2			Supply and delivery of vertical Hollow/Solid shaft Squirrel cage induction motor (IS 325 ) suitable for the above pump continuous rated TEFC/SPDP type with Class 'F' insulation for operation in AC, three Phase/50 HZ ( $\pm 5\%$ ), 415V ( $\pm 10\%$ ) running with a speed of pump noted above and with inbuilt thrust bearing assembly capable of taking up the entire load and non - reverse ratchet assembly etc., complete. The motor rating noted above is the minimum and shall be such that it should never be over loaded when the pump works at MWL condition and shall be 10% over and above the maximum HP absorbed by the pump. The motor offered should be energy efficient to have maximum efficiency at high power factor. Separate thrust bearing assembly could also be supplied to take up the down load	As per IE Rules & Spl.specification and IS 325 and as amended as on date				
a	1.00	Each	TEFC Motor ( 30KW) ( 40HP)		149891.00	Rs. One lakh forty nine thousand eight hundred ninty one only	1 No (One Number)	149891.00
3			Supply and delivery of Star-Delta starter where panel boards are available confirming to IS 13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/three Phase/50HZ(+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter(65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector swith, Minature circuitr braeker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor (the cost of capacitor is to be taken separately).	IS 13947, IEC60947-1 and as amended as on date				

Sl. No.	Quantity		Name of Component	Ref. To Manual	RATE		Unit	Depart ment Value(Rs.)
					In figures.	In Words.		
1	2		3	4	5	6	7	8
a	1.00	Each	40HP		35172.00	Rs. Thirty five thousand one hundred seventy two only	1 No (One Number)	35172.00
4			Supply and delivery of 16 sq.mm PVC insulated and sheathed 3 core flat type copper cable conforming to IS 694/1990 and as directed bt the TWAD Board office (from panel board to motor)	IS 694/1990 and as amended as on date				
a	18	m	For unit - I		676.00	Rs. Six hundred seventy six only	1 m (One metre)	12168.00
5	4	Each	Jointing the above LT cable PVC insulated and sheathed 3 core flat type copper cable confirming to IS 694/1990 ,16 sq.mm	IS 694/1990 and as amended as on date	700.00	Rs. Seven hundred only	1 No (One Number)	2800.00
						DEPARTMENTAL VALUE		1422031.00
						GST @12%		170643.72
						Total		1592674.72
Rupees. Fifteen lakh ninety two thousand six hundred seventy four and seventy two paise only								

I / We

agree to execute all the items of works mentioned in schedule'A'

at (+) ( ) excess over (OR) at (-) ( ) less than,  
the dept.value mentioned above.

NOTE: The excess / less % should be furnished both in figures and words.