

scope of work

Name of work: Re-winding of motor in nitrogen plant, electrical installation work for RO plant and different location of TRC building of IACS, Jadavpur.

Sl No.	Item description	Quantity	Unit	Rate	Amount
	For Nitrogen plant				
1)	Re-winding of the existing 15 HP motor (1) Dismantelling/stripping of the burntout winding from both stator and rotor slots. (2) Clean the slots. (3) Repairing of core and other internals (if required). (4) Check the rotor bars and end rings for any cracks and other abnormality and repairing of the same (if any) (5) Re-insulate the slots with F-class insulation. (6) Re-winding of both stator and rotor with ISI standard electrolytic grade super enameled copper conductor with F-class insulation conforming to IS13730. The profile, shape and dimension of the manufactured coil shall be identical with the original coil. (7) The winding must be impregnated with two coats of baking type insulated varnish and heat treated, as required. (8) Paint the stator outer body with enamel paint. (9) End of the winding shall be brought to the terminal block with sleeve leads of proper size. (10) Replacement of terminal studs, terminal blocks etc., as required.	1	No.		
	The above job includes warranty obligation to the bidder as per the terms of the NIT				
2)	Replacement of cylindrical roller bearing at DE side and Deep groove ball bearing at NDE side of the motor. Installation, alignment, coupling, testing and commissioning of the motor in the existing base.	2	Nos.		
	Make: SKF/FAG				
3)	Supplying of 4 core 16 sq.mm PVC sheathed/XLPE insulated armoured aluminium power cable of 1.1 KV grade as per IS : 7098 (part-1) 1988.	6	meters		
	Make: Polycab/Gloster/KEI/Havells				
4)	Laying and fixing of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a)	16Sq.mm (with 1mm thick sheath)	6	meters		
5)	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	4 core 16 sq.mm	4	nos.		
6)	Supplying and fixing of Fully automated star delta starter suitable for 15HP, 3phase motor, with enclosure and relay setting 20-32A, coil voltage 440V.	1	no.		
	Make: L&T, C&S, or other suitable make				

	For TRC Building				
7)	Supplying and fixing following rated, 415V, 10KA,C-Curve MCB suitable for inductive load in the existing MCB DB. Complete with connection, testing and commissioning etc., as required.				
a)	32A, 4-pole,	25	nos.		
b)	32A, 3-pole,	25	nos.		
c)	40A, 4-Pole	7	nos.		
d)	40A, 3-Pole	7	nos.		
e)	63A, 4-pole	4	nos.		
f)	63A, 3-pole	4	nos.		
	Make: L&T , ABB, Legrand, Havells				
	For RO plant				
8)	Wiring for light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed medium class PVC conduit with modular switch, modular plate, suitable GI box and earthing point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	Group-B, as per CPWD	4	nos.		
				Total	
Rupees.....only					
NOTE:The quoted rate shall be inclusive of all taxes & duties, levies, cess etc ifc GST also. Nothing extra will be paid to the Contractor except the accepted rate.					
	GST No:				
	SAC code:				
	CGST@..9..% considered in the above BOQ				
	SGST@..9..%Considered in the above BOQ				