

Sr. No.						Description	Qty	Unit	Rate	Unit (Rs./No.)	Amount				
1						Repair and schedule maintenance of Koel Green (Kirkoskar) make 160 KVA DG Set and Supply of various Electrical Items at Tedhava Shivni Project. Quantity is as Per - RA-1									
						D.G. maintenance									
						Supplying and erecting lub oil filter element along with sealing rings, gasket etc complete suitable for DG Set from 82.5 kVA to 250 kVA.	1 No.								
						Supplying and erecting fuel filter along with sealing rings, gasket, primary filter and water separator etc complete suitable for DG Set from 140 kVA to 200 kVA	1 No.								
						Supplying and erecting Air cleaner/Air filter element suitable for DG set from 140 kVA to 200 kVA.	1 No.								
						Topping up new glycol based coolant 50/50 with operating range from 118°C to -37°C of approved make.	4 Ltr.								
						Topping up new lubricating oil 15W/40 grade of approved make as per IS 13656 : 2014. (** 15 Ltr Cap with filter)	15 Ltr.								
						Supplying & erecting 12 V 200 Ah heavy duty plate type Battery with terminal wire duly charged complete suitable for DG set with warrantee for 3 years.	1 No.	1	No	105687.59 106744.46	Rs./no. 106744.464				
						HS Diesel (As per current market rate.)	100 Ltr.								
						Other Electrical Items									
						Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 2.5 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	180 mtr								
						Supplying and erecting PVC insulated PVC round sheathed 1.5 sq.mm (30 no. x 0.25 mm dia.) 3 core flexible multi stranded copper Industrial cable for voltage grade up to 1.1 kV	180 mtr								
						Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 4 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	100 mtr								
						Providing and supplying in standard lengths ISI mark rigid unplasticised PVC pipes for for providing housing for cables.	100 mtr								
Supply of Bourden tube pressure guage, Air Valve,Reflux valve and misc. material at Tedhava Shioni LIS Project Dist. Gondia. As Per Rate Analysis - 2															
Bourden tube Presssure Gauge with necessary pipingBourden type oil filled upto 100 kgf/cm2 of 150 mm dia.						2 No.									
Providing and supplying Air Valves as per IS- 14845-2000 and MJP's standard specifications of approved make and quality of following diameters including railway freight, inspection charges, unloading from railway wagons, loading into truck, transportation upto departmental stores, unloading and stacking excluding GST levied by GOI & GOM in all respect etc. complete. Air Valve Single Ball Flanged / Screwed Type - PN-1.						2 No.									
Providing and supplying Air Valves as per IS- 14845-2000 and MJP's standard specifications of approved make and quality of following diameters including railway freight, inspection charges, unloading from railway wagons, loading into truck, transportation upto departmental stores, unloading and stacking excluding GST levied by GOI & GOM in all respect etc. complete. Air Valve Single Ball Flanged / Screwed Type - PN-1						2 No.									
Providing and supplying Air Valves as per IS- 14845 and MJP's standard specifications double orifice type combined with screw down isolating valve, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including insurance, third party inspection charges, loading, unloading, transportation upto departmental stores, excluding GST levied by GOI & GOM in all respect etc. complete. Air Valve Double Ball Flanged Type - PN-1						2 No.	1	No.	38224.00	Rs./No. 38224					

Providing and supplying ISI mark CI D/F reflux valves (non-return valves) of following dia including railway freight, inspection charges, unloading from railway wagon, loading into truck, transportation upto departmental stores, unloading, stacking excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per I.S.5312 Part I (1984) a) Without by pass arrangement -PN-1	2 No.
Providing and supplying ISI mark CI D/F reflux valves (non-return valves) of following dia including railway freight, inspection charges, unloading from railway wagon, loading into truck, transportation upto departmental stores, unloading, stacking excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per I.S.5312 Part I (1984) a) Without by pass arrangement -PN-1	2 No.

Providing and applying Primer and then Painting including surface preparation, chipping the welding, cleaning spatters, dust etc. of Air Storage tank, Air vessel tank, Ladder and Misc. area @ Tedhva Shioni Lift Irrigation Scheme Project Dist. Gondia. **As Per Rate Analysis - 3**

Painting Area Air Storage Tank	Sq.mtr.
Middle Cylindrical tank	27.0354
Right Extended End Cylindrical Section	6.594
Left Extended End Cylindrical Section	5.67084
M.S. Plate Coller around Vessel	2.9673
End Torispherical Head (L=300mm)	1.9782
Bracket Platform Plate	4.6305
Foundation Support ISMB 350	4.9392
Air Vent Pipe 400mm	0.7917
Flange plate ID-500mm,OD-600mm	0.181335

Painting Area Air Vessel Tank	Sq.mtr.
Middle Cylindrical tank	25.3869
Right Extended End Cylindrical Section	11.5395
Left Extended End Cylindrical Section	9.92397
M.S. Plate Coller around Vessel	5.1912
End Torispherical Head (L=300mm)	3.46185
Bracket Platform Plate	4.6305
Foundation Support ISMB 350	4.9392
Air Vent Pipe 400mm	0.7917
Flange plate ID-500mm,OD-600mm	0.181335

Painting Area Of Approach Ladder & Platform of Air Storage tank	Sq.mtr.
MC 200x75	11.97
Painting Post ISA50x50x5mm	4.095
Angled Plate 6mm for Steps	4.536
Angled Plate 6mm for Platform	17.64
Painting Pipe Dia. 30mm	1.533105

Painting Area Of Approach Ladder & Platform of Air Vessel tank	Sq.mtr.
MC 200x75	11.97
Painting Post ISA50x50x5mm	4.725
Angled Plate 6mm for Steps	4.86948
Angled Plate 6mm for Platform	18.9
Painting Pipe Dia. 30mm	1.58256

Transportation fabricated Structure/Steel by 4MT capacity Tempo Charges. Taken Distance from Nagpur to Tedhva Shioni LIS Project Dist. Gondia.. **As Per Rate Analysis - 4**

1	No.	80407.73	Rs./No.	37845.54	37845.5446
2	Trip	12665.40	Rs./Trip.		25330.80

249650.12	Grand Total :-	208144.81
2496.50	Add 1% Insurance :-	2081.45
44932.02	Add 18% GST :-	37466.07
297083.64	Grand Total :-	247692.32
297084.00	Round Up	247692.00

Total Rs. Two Lakh Forty Seven Thousand Six Hundred Ninety Two Only.

Material Rate are taken from JPC Steel Price list 01/07/2023 to 30/09/2023.

Deputy Engineer
Mechanical Engineering Workshop
Subdivision No.1, Nagpur.

Sanction Estimate No. 79
MEW DN/NGP/ITS/Dt. 10/10/2023
for Rs. 297084.00/- (Rs. Two Lakh Ninety Seven Thousand & Eighty four)
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