

ABSTRACT

Name of the work - Repairing of 100 KVA DG Set, and supply, erection of main cable and other required accessories at Man Project 1a. Khamgaon, Dist. Buldhana.

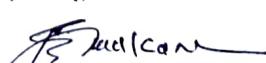
Item No.	Description of Item	Qty.	Unit	Unit Rate	Amount
1	Supplying, installation and testing of maintenance free earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with 25 kg Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity complete, and recording the results Specification no. EA-MOBI	2	Each	14495.25	28990.50
2	Supplying and erecting GI strip of high purity required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint with joints required. As per specification no EA-EP.	65	Kg	233.10	15151.50
3	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	10	Mtr	415.80	4158.00
4	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 25 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	225	Mtr	274.05	61661.25
5	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.	200	Mtr	220.50	44100.00
6	Supplying and erecting 12V/200Ah tubular battery with battery terminal wire, duly charged with 36 months warranty complete	1	Each	25442.55	25442.55
7	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 185 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	175	Mtr	1147.65	200838.75
8	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 160 mm outside dia, double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete	150	Mtr	520.80	78120.00

9	Carrying out Servicing of DG set from 62.5 kVA to 200 kVA with/without AMF Panel of any make to ensure smooth running of DG set for 30 mins Checking for abnormal sound and leakages. Carry out visual inspection of all moving parts, oil levels, oil filters, fuel filters, air filters and clean them properly, rectify the minor leakages if any. Inspect alternator, stator and rotor for normal speed & proper frequency, Examine battery charging with monitoring system and recording voltages, checking battery cells gravity and topping up with Distilled water. Checking V belts with necessary adjustment, Checking and retightening of nut bolts including coupling bolts of engine and alternator, Checking & cleaning of radiator and leakage testing Checking of radiator & fuel supply hose pipes, Checking of AVR, excitation diodes, its connections confirming proper output voltage. Checking & resetting of valve tappets, Cleaning of DG set internally using blower, cleaning radiator, Attending breakdowns as and when required during One month period or during VIP visit within 2 hours of intimation and Submit the servicing report to engineer in charge.(Non Comprehensive) as per specification No. GEN-SER-AMC	1	Job	3268.65	3268.65
10	Topping up new lubricating oil 15W/40 grade of approved make as per IS 13656 : 2014	20	Litre	454.65	9093.00
11	Topping up new glycol based coolant 50/50 with operating range from 118°C to -37°C of approved make	20	Litre	352.80	7056.00
12	Supplying and erecting V-Belt of all types and lengths, adjust tension as per requirements from generator manufacturer suitable for DG set upto 100kVA	1	Each	2961.00	2961.00
13	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	Each	3631.95	3631.95
14	Supplying and erecting fuel filter along with sealing rings, gasket, primary filter and water separator etc complete suitable for DG Set from 62.5 kVA to 125 kVA.	1	Each	1754.55	1754.55
15	Supplying and erecting stop solenoid assembly 12V/24V single coil energized to run with or without primary etc complete suitable for DG set upto 125 kVA.	1	Each	6217.05	6217.05
16	Supplying and erecting Air cleaner/Air filter element suitable for DG set from 50 kVA to 125 kVA	1	Each	5251.05	5251.05
			Total Rs	497695.80	
			Add GST @ 18%	89585.244	
			Gross Total Rs.	587281.04	
			Say Rs	587281.00	

(In Word Rs. Five lakh eighty seven thousand two hundred eighty one only)


S. S. Wankhade
Sectional Engineer


G. Jayale
Deputy Engineer
Lift Irrigation Mech & Elect
Sub division No. 2 Chandrapur


(R. G. Thakare)
Deputy Engineer
Gate Mfg and Erection
Sub Division No 2 Akola

Sanctioned Estimate No 125/TS-2/MDM/2024-5
EE/MD/AK/2015 Dt. 21-02-25

Sanctioned Rs 587281/- (In words five lakh
eighty seven thousand two hundred eighty one only)


Executive Engineer
Mechanical Division
Akola