
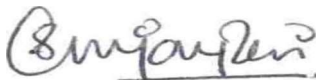




Specification
for
3 KVA Portable Diesel alternator cum welding
set for
8-Wheeler U/S Diesel Electric Tower Car

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|-------------------|------------|
| SPECIFICATION NO: | PS407492 |
| REVISION NO: | 01 |
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CONTROL EQUIPMENT ENGINEERING DIVISION
BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL -22



This specification covers the requirement for Portable Diesel alternator cum welding set for new 8-Wheeler Under Slung Diesel Electric Tower Cars (DETCs) for ICF, Chennai.

1.0 Scope:-

| Item description | Qty/DETC |
|---|----------|
| Portable Diesel alternator cum welding set having auxiliary power capacity of 3KVA, 230Volts, single phase AC supply, 50Hz, and welding capability of 175A DC (min) with duty cycle of 60%. The engine shall be Air cooled, petrol start and petrol run with auto start or manual start features. | 1 No. |

The portable welding cum gen set shall generally confirm to IS: 2635 (latest) and alternator shall confirm to IS: 4722 (latest). The portable welding cum Gen set shall meet the following requirements.

- 1) Engine - petrol start and petrol run, air-cooled
- 2) Start mode - auto or manual
- 3) AC Generator output - 230V single phase, 50Hz, 3KVA
- 4) Welding capability - 175A (min), 65 V DC with 60% duty cycle
- 5) Suitable for welding rod size - 4 mm (Maximum)
- 6) Insulation class - F
- 7) Mechanical protection -IP23
- 8) Ambient temperature - up to 55 Deg. C
- 9) Altitude - 1000m
- 10) Dry weight - 105 Kg (+/-5%)
- 11) Overall dimension (L x W x H) - 865 x 470 x 710 mm (+/- 5%)
- 12) Trolley having wheels and handles for easy movement.
- 13) Welding cable 25 sq.mm of 5m length with welding holder and accessories.
- 14) Emission Compliance - CPCB Compliance.



- 15) Noise Gen set as per CPCB - Less Than 86 Db
- 16) Model: similar to GE-W 5500R of M/S. Himalayan power machines or Equivalent

2.0 Documents I Drawings:-

A. Vendor has to submit following documents with Offer,

- i. Detailed Catalog.
- ii. Out Line Drawing.

B. Vendor has to submit following documents with Supply,

- i. Maintenance manual.
- ii. Maintenance Schedule

3.0 Payment:-

90% - After receipt of material at ICF.

10% - After completion of Cable Harness Laying & Termination Work on DETC Coach.