





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



SPECIFICATION NO:	PS407492
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<b>PREPARED BY:</b>	<b>APPROVED BY:</b>
	
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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 - 100 Kg (Maximum)
- 11) Overall dimension (L x W x H) - 750 x 550 x 675 mm (Maximum)
- 12) Trolley having wheels and handles for easy movement.
- 13) Welding cable 25 sq.mm of 5m length with welding holder and accessories.
- 14) Model: similar to GE-W 5500R of M/s. Himalayan power machines or Equivalent



## **2.0 Documents / 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.