

**SPECIFICATIONS**  
**FOR**  
**GOUGING SETS**

**1.0 Type**

3 Phase Portable & Compact, D.C Rectifier gouging set complete with Power Source, Gouging Torch, Input Output and Earthing Cables with Connectors etc.

**2.0 Technical Specifications:**

i)	Input supply	-	415V +/-10% variation 3 phase, 50 Hz ± 3% variation
ii)	Output Current range	-	150 to 1000 Amps (DC)
iii)	Welding Current (DC) (10Min Duty Cycle)		
	a) 40% duty cycle	-	1000 Amps
	b) 60% duty cycle	-	810 Amps (Min.)
	c) 100% duty cycle	-	625 Amps (Min.)
iv)	Type of Cooling	-	Forced Air
v)	Class of insulation	-	Class 'F' or better
vi)	Protection	-	IP 21 or better
vii)	Power Consumption	-	To be mentioned by vendor
viii)	Dimensions and weight	-	To be mentioned by vendor

**3.0 Technical Features:**

It should have following in built features:


- i) Optimum VA Characteristics for heavy duty arc gouging
- ii) Wide range of output current control.
- iii) Fitted with Ammeter and voltmeter covering whole range on front panel.
- iv) Fitted with lifting hook and base frame.
- v) Quick and easy adjustment of controls.
- vi) Front panel fitted with on-off switch, output control Knobs, Pilot lamps, Ammeter and Voltmeter etc.
- vii) Compact, rigid and light weight and damage resistant cabinet to avoid any damage during shipping and handling.
- viii) Built in safety features as per National/ International norms such as over current protection, Under voltage protection, Over voltage protection, Short circuit protection, Single phasing protection & Thermal Overload protection etc.
- ix) All the wire should have proper wire nos. and should match with Electric/ electronic circuit diagrams given with maintenance manual.

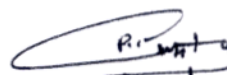
**4.0 Scope :**


All items should be separately priced.


- i) Power Source, Qty- 1 No.
  - ii) Gouging torch suitable for 1000 Amps DC current, Qty- 1 No.
  - iii) Output copper cable assembly with connectors (20.0 m long), Qty- 1 No.
  - iv) Copper earthing cable with connector – 5.0 m long, Qty- 1 No.
  - v) Input cable with plug & socket- 10.0 m long, Qty- 1 No.
  - vi) Recommended Spares for 2 years trouble free smooth operation with identification no. and individual price.
- 5.0 Commissioning and trials at BHEL works by vendor.
- 6.0 Guarantee for 3 years smooth and trouble free operation from date of commissioning.
- 7.0 Prompt after sales Service in case of any problem.
- 8.0 3 sets of operation and maintenance manuals giving complete technical details (including electronic PCBs, spare parts list with identification/part nos., complete electric/electronic circuit diagrams with proper wire nos. and details of all bought out items etc.)
- 9.0 Address and names of customers to whom similar gouging sets have been supplied and working satisfactorily.
- 10.0 **Important:**

Vendor should clarify & confirm all points mentioned above and provide technical literatures, leaflets of the offered model with the offer otherwise offers may not be considered.

  
(EMT) 18/4/13  
CAJIT KUMAR  
Mgr (EMT)

  
11/05/13  
(WEX-BI-1)  
P.K. Gupta  
Dy. Mgr.

  
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SR. ENGR - BK-1