	BHARAT HEAVY ELECTRICAL LIMITED	Enquiry No. :
	UNIT'S ADDRESS:	Due Date :
UNIT'S PHONE NO.:		Supplier Qtn. No.:
(FROM PURCHASE DEPT.)		Specification Rev. No. :
		Rev. Date:

SPECIFICATION CUM COMPLIANCE CERTIFICATION FOR GOUGING SETS

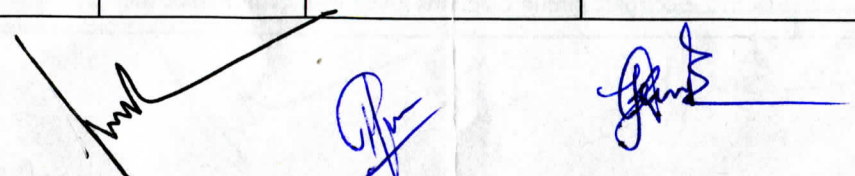
NOTE:-

1. Vendor must submit complete information against clause no. 10 (Qualifying Conditions). The offer meeting this clause would only be processed.
2. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.
3. The offer and all documents enclosed with offer should be in English language only.
4. All dimensions are in mm unless otherwise stated.
5. Vendor to quote price considering all the clauses in this specification cum compliance certification.

NAME OF INDIAN AGENT :	
ADDRESS OF THE SUPPLIER:	ADDRESS OF THE INDIAN AGENTS :
TELEPHONE NOS :	TELEPHONE NOS.:
FAX NOS :	FAX NOS.:
E-MAIL ADDRESS :	E-MAIL ADDRESS :

TECHNICAL SPECIFICATION FOR "GOUGING SETS"

SNO	DESCRIPTION FOR BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATIONS	REMARKS
1.0	Portable & Compact D.C Rectifier Gouging set complete with Power source, Gouging Torch, Output and earthing cable with connectors.	Vendor to offer			
2.0	Technical Specification				
i	Input supply- 415V ± 10% , 3 phase, 50 Hz ± 3%	Vendor to confirm			



TECHNICAL SPECIFICATION FOR "GOUGING SETS"

SNO	DESCRIPTION FOR BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATIONS	REMARKS
ii	Current range- 150 to 1000A	Vendor to confirm			
iii	Rated output current at 100% duty cycle- 1000A (DC)	Vendor to confirm			
iv	Type of Cooling - Forced Air	Vendor to confirm			
v	Power Consumption	To be mentioned by vendor			
vi	Dimensions and weight	To be mentioned by vendor			
3.0	Technical Features:				
	It should have following in built features:				
i	Optimum V-A Characteristics for heavy duty arc gouging	Vendor to confirm			
ii	Two widely overlapping ranges with broad current control.	Vendor to confirm			
iii	Fitted with Ammeter and voltmeter covering whole range on front panel.	Vendor to confirm			
iv	Fitted with lifting hook and base frame.	Vendor to confirm			
v	Quick and easy adjustment of controls.	Vendor to confirm			
vi	Front panel fitted with on-off switch, output control Knob showing overlapping ranges as per specification, Pilot lamps, Ammeter and Voltmeter etc.	Vendor to confirm			
vii	Compact, rigid and light weight and damage resistant cabinet to avoid any damage during shipping and handling.	Vendor to confirm			
viii	Built-in safety features as per National/ International norms such as single phase protection, Under voltage protection, Over voltage protection, Short circuit protection & Thermal Overload protection	Vendor to confirm			
ix	All the wire should have proper wire nos. and should match with Electric/ electronic circuit diagrams given with maintenance manual.	Vendor to confirm			

TECHNICAL SPECIFICATION FOR "GOUGING SETS"

SNO	DESCRIPTION FOR BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATIONS	REMARKS
4.0	Scope :				
	All items should be separately priced.				
i	Power Source.	Vendor to offer			
ii	Gouging torch suitable for 1000 Amps currents at 100% duty cycle.	Vendor to offer			
iii	Output copper cable assembly with connectors (20 m long).	Vendor to offer			
iv	Copper earthing cable with connector – 5.0 m long.	Vendor to offer			
v	Input cable with plug & socket- 10.0 m long	Vendor to offer			
5.0	Spares (with identification no. and individual price)- (For 3 machines)				
a	Set of IGBT/ Thyristors of each type, Qty- 2 nos	Vendor to offer			
b.	Set of IGBT Drive gate plate (if applicable)- 2 no	Vendor to offer			
c.	Set of Power Diodes/ rectifier of each type, Qty- 2 nos				
d.	Set of control PCB of each type, Qty- 2nos	Vendor to offer			
e.	Set of relays & contactors of each type, Qty- 3no s	Vendor to offer			
f.	Set of all switches of each type, Qty- 4 nos	Vendor to offer			
g.	Output studs/ Connectors, Qty- 10 nos	Vendor to offer			
h.	Dough moulded body insulation washers complete, Qty- 10 nos	Vendor to offer			
i.	Set of Power Capacitor (if applicable) - 3 nos	Vendor to offer			
	Note- set means total no of particular item used in the machine				
6.0	ERECTION & COMMISSIONING -				
6.1	Commissioning & trials of all the features of the Gouging Set will be done by the vendor at BHEL work.	Vendor to confirm			
6.2	Vendor will impart training to BHEL personnel during commissioning.	Vendor to confirm			

TECHNICAL SPECIFICATION FOR "GOUGING SETS"

SNO	DESCRIPTION FOR BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATIONS	REMARKS
7.0	GUARANTEE -				
	Guarantee for 3 years smooth and trouble free operation from date of commissioning	Vendor to confirm			
8.0	After Sales Service:-				
8.1	Prompt after sales service during and after expiry of guarantee period and response time should not be more than 72 hours..	Vendor to confirm			
9.0	Three sets of operation and maintenance manuals consisting of following documents:				
9.1	Operation Instructions.	Vendor to confirm			
9.2	Maintenance manual giving complete technical details, spare parts with identification nos., complete electric/electronic circuit diagrams with proper wire nos.	Vendor to confirm			
9.3	Trouble shooting and remedies	Vendor to confirm			
10.0	QUALIFYING CONDITIONS-				
10.1	List of customer to whom similar Gouging Sets have been supplied & working satisfactory.	Vendor to submit			
10.2	Addresses & names /telephones nos. of contact person to be submitted by vendor.	Vendor to submit			
10.3	Performance certificate from the customers regarding satisfactory performance of Gouging Sets supplied to them (Original Certificate or Through E-mail directly from the customer). The original performance certificate may be returned after verification by BHEL.	Vendor to submit			
10.4	BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false/incorrect, the offer shall be rejected.	Vendor to note			
11.0	Important:				

TECHNICAL SPECIFICATION FOR "GOUGING SETS"

SNO	DESCRIPTION FOR BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATIONS	REMARKS
	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.	Vendor to note			

[Signature]
K. Kumar
BHEL

[Signature]
Prabhat Kumar
BHEL

[Signature] 22/06/16
Prabhat Kumar
(SE/WT)

BSS
22-6-16
(BSS Amn,
AGNCWT)

[Signature]
22/6/16