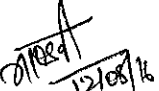
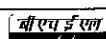


 BHEL-EMRP MUMBAI	TECHNICAL SPECIFICATION (PART-II) FOR MECHANICAL WORKSHOP ITEMS	SPECIFICATION NO. EM-MHPA-2912-12-PTS-03	
		Rev. No	00
	4X180 MW MANGDECHCHU HEP	Rev Date	10/08/2016

PARTICULAR TECHNICAL SPECIFICATIONS

 Vimlanshu Prawal Horo Sr. Engineer	 Mandvi Gupta Manager
PREPARED BY	CHECKED & APPROVED BY

 BHEL-EMRP MUMBAI	TECHNICAL SPECIFICATION (PART-II) FOR MECHANICAL WORKSHOP ITEMS	SPECIFICATION NO. EM-MHPA-2912-12-PTS-03	
		Rev. No	00
	4X180 MW MANGDECHCHU HEP	Rev Date	10/08/2016

Annexure III

Details of Equipment

Bidder must quote the material code number, material description & quantity offered in their quotation /bid, as specified below. Bidder's alternate description can also be given in separate column.

Completeness of Equipment

Each of the equipment listed shall be complete with applicable accessories like power supply main leads, screened guard leads, screened line test leads, earth leads, connectors and clips, leather carrying case, fasteners/washers/nuts/anchoring bolts/etc required for erection and commissioning and any other accessories required for completing the equipment.

Sl.No	Item specification	QAP	Details of Equipment offered by the Bidder	
			Make **	Model & Catalogue No
1	<u>Rectifier type welding machines (4 Nos.)</u> Thyristorised Welding machines with smoke eater each suitable for operation on 415V±10%, 50Hz±5% power supply confirming to relevant standard with following specifications: Rated welding current : 40-600 A Rated Duty cycle : 60% Class of insulation : H Each welding machine shall be provided with the following accessories/items:- a) One (1) no. of twenty (20) meters, of extra flexible rubber covered electrode, copper cable with electrode holder attached, b) One (1) no. gouging attachment for use with carbon gouging electrodes, c) Two (2) nos. welding goggle, d) Two (2) pair. Hand gloves, e) One (1) no. Head shield, f) Twenty (20) nos. each spare lenses, plain and dark shall be supplied. + Spare Parts III-A	28-9	Ador, Esab, L&T, Sterco, National Panasonic	

 BHEL-EMRP MUMBAI	TECHNICAL SPECIFICATION (PART-II) FOR MECHANICAL WORKSHOP ITEMS		SPECIFICATION NO. EM-MHPA-2912-12-PTS-03	
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2	<u>Welding Generator (2 Nos.)</u> Diesel type welding generators with smoke eater Rated welding current : 40-400A Rated duty cycle : 60% Class of Insulation : F Each welding generator shall be provided with the following accessories items: a) One (1) no. of twenty (20) meters, of extra flexible rubber covered electrode, copper cable with electrode holder attached b) One (1) no. gouging attachment for use with carbon gouging electrodes, c) Two (2) nos. welding goggle, d) Two (2) pair Hand gloves, e) One (1) no. Head shield, f) Twenty (20) nos. each spare lenses, plain and dark shall be supplied. + Spare Parts III-A	28-9	Ador, Esab, L&T, Sterco, National Panasonic	
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(** Pl tick on the offered make)

 BHEL-EMRP MUMBAI	TECHNICAL SPECIFICATION (PART-II) FOR MECHANICAL WORKSHOP ITEMS	SPECIFICATION NO. EM-MHPA-2912-12-PTS-03	
		Rev. No	00
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SCHEDULE OF GUARANTEED TECHNICAL PARTICULAR

Annexure –IV

(Bids are liable to be rejected if the bidder does not furnish the technical data)

SI No	Description	To be filled by the Bidders
	1.0 RECTIFIER TYPE WELDING MACHINE	
1.	Name of manufacturer	
2.	Over all Dimension	
3.	Type	
4.	Standard to which conforms.	
5.	Input voltage rating	
6.	Output voltage	
7.	Rated duty cycle	
8.	Class of insulation	
9.	Type of cooling	
10.	Type of winding	
11.	Material of winding	
12.	Weight of equipment	
	2.0 WELDING GENERATOR	
1.	Name of manufacturer	
2.	Over all Dimension	
3.	Type	
4.	Standard to which conforms.	
5.	Rated welding current	
6.	Output voltage	
7.	Rated duty cycle	
8.	Class of insulation	
9.	Type of cooling	
10.	Type of winding	
11.	Material of winding	
12.	Weight of equipment	

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : MANGDECHHU H.E PROJECT, BHUTA CLIENT : MANGDECHHU HYDROELECTRIC PROJECT AUTHORITY.

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VENDOR NAME & ADDRESS:

NITP.O. REFERENCE :

EQUIPMENT : Workshop Equipment - Welding Machines

Sl. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS/ ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
						Perform	Witness	Verify	
1	Welding Mc (Rectifier Type), Welding Generators, TIG & MIG Welding Machine Make, Model, Capacity of the Equipment	Visual	100%	Tech. Spec./ Relevant Standard	TC	3/2	-	1	TC
2	Rated welding current	Measurement	100%	-do-	JIR	3/2	1	-	CHP
3	Welding current - maximum (1.35 times of rated current)		-do-	100%	-do-	JIR	3/2	1	-
4	Welding current-minimum (Not more than 10% of rated current)	-do-	100%	-do-	JIR	3/2	1	-	CHP
5	Open circuit voltage	-do-	100%	-do-	JIR	3/2	1	-	CHP
6	Short circuit Test	-do-	100%	-do-	JIR	3/2	1	-	CHP
7	Electric Motor	Test	100%	-do-	TC	3/2	-	1	TC
8	Routine test Assembly Test Functional Test :- Auto / Manual Mode		Visual	100%	-do-	JIR	3/2	1	-

Note: a. In 'Inspection Agency' column figure '2' or '3' to be filled. 1- will indicate 'MHPA', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.

b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission & CHP - Customer Hold Point. Test certificates shall be submitted at the time of final inspection.

Signature
HPA (Client)

Signature
NHPC (Consultant)

Signature & Seal
Vendor

