	BHARAT HEAVY ELECTRICAL LIMITED		Enquiry No. :		
	UNIT'S ADDRESS:		Due Date :		
	CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)		Supplier Qtn. No.:		
			Date :		
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF HYDRAULIC PRESSURE TESTING EQUIPMENT					
NOTE:-					
1. Vendor must submit complete information against clause no.11. 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 clause 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.					
NAME & ADDRESS OF THE SUPPLIER :			NAME & ADDRESS OF THE INDIAN AGENT :		
TELEPHONE NOS.:			TELEPHONE NOS.:		
FAX NOS.:			FAX NOS.:		
E-MAIL ADDRESS :			E-MAIL ADDRESS :		
SCOPE: SUPPLY, ERECTION & COMMISSIONING OF HYDRAULIC PRESSURE TESTING EQUIPMENT COMPLYING WITH SPECIFICATION AS BELOW.					
Sl.No.	Description for BHEL Requirement (Specification No.S-EMT-194 /00 Dt.15.06.2010)	Specified/To be confirmed by	Offered	Deviations	Remarks
1.0	PURPOSE & WORK PIECE:				
1.1	Purpose: The Hand operated Hydraulic test equipment is required to carry out pressure testing of Generator Bearing Shells. (Media: Water)	vendor			
2.0	PORTABLE HYDRAULIC PRESSURE TESTING EQUIPMENT				
2.1	The Equipment should be portable type. The hand operated pump, lever, pressure gauge, relief valve, non-return valve..etc are to be mounted on the water tank. Unit shall be mounted on wheeled trolley with suitable castor wheels & Lifting lugs and handle for pulling, pushing and for steering	Vendor			
2.1.1	Drawing No.4-EMT-1741, Rev 00 indicate the general arrangement of the Hand operated hydraulic testing equipment and the offer shall be generally in line with this drawing.	Vendor			
2.2	Pump				
2.2.1	Make	Vendor			
2.2.2	Type	Vendor			
2.2.3	Body of the Pump	EN 9 steel			
2.2.4	Pressure range	0- 600 Kg/Sq.cm			
2.2.5	Test Pressure & duration (pressure should hold for minimum one hour):	1.25 times (I.e. 750 kgs / cm2).			

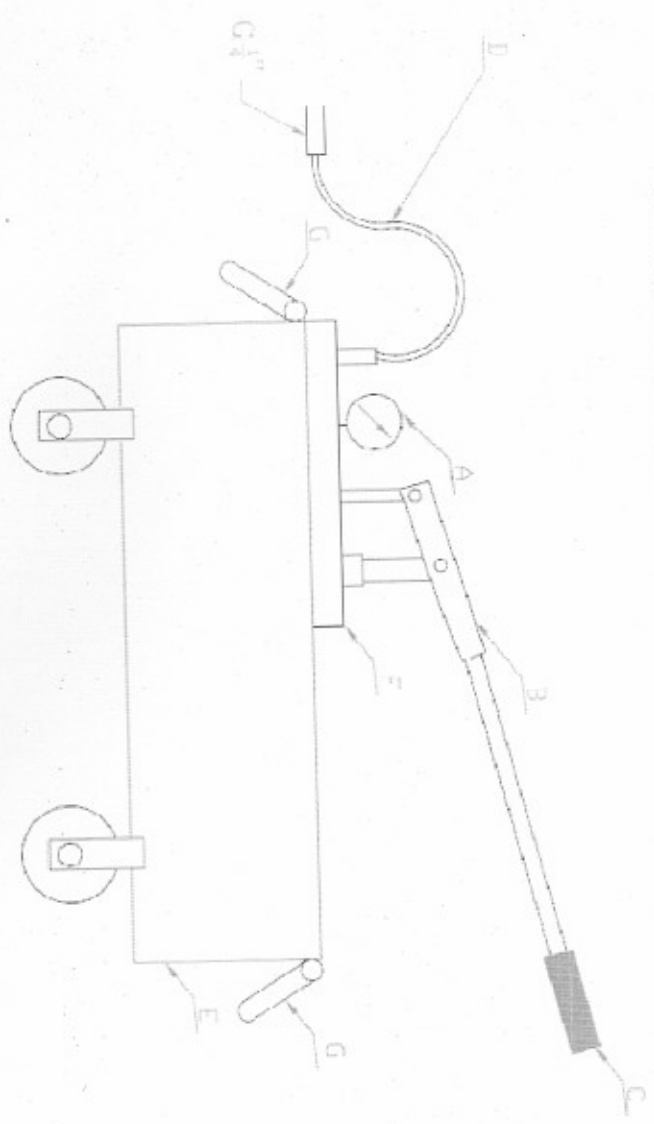
Sl.No.	Description for BHEL Requirement (Specification No.S-EMT-194 /00 Dt.15.06.2010)	Specified/To be confirmed by	Offered	Deviations	Remarks
2.2.6	The pump should be Hand operated type, with the help of a lever. The lever should have one end grippers for holding.	Vendor			
2.2.7	Working pressure	0 - 600 Kg/Sq.cm			
2.2.8	Medium	Water			
2.2.9	Hydraulic seals should be of reputed make	Vendor			
2.2.10	Non-Return Valve, Plunger and Pressure relief Valve shall be made of S.S.	Vendor			
2.2.11	Handle shall be manufactured with Spring steel. 'O' rings & Seals and other constructional materials shall be made of with High quality material to avoid frequent break downs.	Vendor			
2.2.12	Detailed drawing, Hydraulic circuit diagram / catalogue shall be submitted along with offer.	Vendor			
2.3	Pump Tank				
2.3.1	Material	Rust preventive type G.I / S.S. material.			
2.3.2	Tank Capacity	60 Ltrs.			
2.3.3	Water level indicator to be provided	Vendor			
2.3.4	Filter to be provided	Vendor			
2.4	Pressure Gauge				
2.4.1	Pressure Gauge should be of reputed make	Vendor			
2.4.2	Pressure Range	0 - 1000 kg / cm ²			
2.5	Hose pipe				
2.5.1	Length of cable	2 Metres			
2.5	Make	Vendor			
2.6	Suitable for coupling to G1/4" threads	Vendor			
3.0	Spares :				
3.1	Spares required for 2 years trouble free operation of the Equipment, like set of 'O' rings, set of seals etc shall be quoted itemwise along with offer.	Vendor			
4.0	DOCUMENTATION: 5 sets of operation and maintenance manuals in english shall be furnished along with equipment. Dimensional details with shore hardness of seals & 'o' rings shall be incorporated in the O & M manual.	Vendor			
5.0	COMMISSIONING :	Vendor			
5.1	Successful proving of the equipment by the supplier shall be considered as part of commissioning.	Vendor			

Sl.No.	Description for BHEL Requirement (Specification No.S-EMT-194 /00 Dt.15.06.2010)	Specified/To be confirmed by	Offered	Deviations	Remarks
6.0	PROVEOUT OF THE EQUIPMENT:	Vendor			
6.1	The equipment is to be proved at BHEL works for its proper function by demonstrating all the functions as per technical parameters and prove out by conducting pressure test on 4 bearings of generator.				
7.0	EQUIPMENT ACCEPTANCE: (Tests/activities to be performed by vendor)	Vendor			
7.1	Tests/activities should be carried out at supplier's works on the equipment before dispatch.				
7.1.1	Vendor to demonstrate all the functions of the equipment and loading of hydraulic cylinder, cables and pipes testing under maximum working pressure..etc.				
7.2	Tests to be carried out at BHEL works while commissioning the equipment.	Vendor			
7.2.1	Vendor to demonstrate all the functions of the equipment and prove out by conducting pressure test at 600 Bar on bearings available at BHEL Works.				
8.0	PACKING: Proper packing of the items is to be ensured to avoid any damage in transit.	Vendor			
9.0	GUARANTEE : 18 Months from the date of acceptance of the equipment.	Vendor			
10.0	GENERAL : The vendor should submit the following information.	Vendor			
10.1	equipment Model:	Vendor			
10.2	Floor area required (Length, Width, Height) for complete equipment & accessories	Vendor			
10.3	Painting of equipment: RAL 6011 Apple green (polyurethane paint)	Required			
10.4	Total weight of the equipment.	Vendor			
10.5	Vendor to submit, along with offer, the reference list of customers where similar equipments of Hydraulic type have been supplied mentioning the customer, brief description of the equipment, application for which the item is supplied, Year of Supply.	Vendor			
10.6	Delivery period: To be indicated	Vendor			

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11.0	QUALIFYING CONDITIONS:	Vendor			
11.1	Only those vendors (OEMs) who are in line of supply of similar equipments/special purpose machines of hydraulic type and having at least 2 years experience in manufacturing,supply and erection of such machines/equipments and the referred machine is presently working satisfactory for more than one year (on the date of opening of tender) after commissioning should quote. The following information is to be submitted by vendor about the companies where referred machines have supplied. This is required from all the vendors for qualification of their offer.				
11.2	Name of the customer / company where referred Equipment is installed.				
11.3	Complete postal address of the customer.				
11.4	Month & Year of commissioning.				
11.5	Parameters of the machine/s supplied and application for which the machine is supplied.				
11.6	Name and designation of the contact person of the customer.				
11.7	Phone, FAX no. and email address of the contact person of the customer.				
11.8	P.O copies/commissioning report/ performance certificate of atleast one of the machines referred by the vendor in support of the referred machine / equipment.				
11.9	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/incorrect, the offer shall be rejected.				
12.0	Two part bid system shall follow	Vendor			

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HYDRAULIC PRESSURE TESTING EQUIPMENT



CAPACITY: 0-600 kg/cm²

- A: PRESSURE GAUGE : 0-600 kg/cm²
- B: HAND OPERATED LEVER
- C: HAND GRIPPER
- D: HP HOSE MIN. 2 METRE LENGTH, SUITABLE FOR G1/4" THREAD
- E: WATER TANK : 60 LITERS CAPACITY
- F: PUMP WITH NON RETURN VALVE, ADDITIONALLY WITH NEEDLE VALVE
- G: HANDLES FOR LIFTING

DRG. NO.

4-EMT-1741