

UNIT'S ADDRESS: BHARAT HEAVY ELECTRICAL LIMITED RAMACHANDRAPURAM	HYDERABAD 502032	Enquiry No. :
UNIT'S PHONE NOS.	040-23185213	Due Date :
CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEP'T.)		Supplier Qtn. No.:
SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR HELIUM LEAK DETECTION EQUIPMENT. QUANTITY: 1 No.		Date :
NOTE:		

1. Vendor must submit complete information against clause no. 12.0 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.

ADDRESS OF THE SUPPLIER :		Address of the Indian Agents:			
TELEPHONE NOS.:		TELEPHONE NOS.:			
FAX NOS.:		FAX NOS.:			
E-MAIL ADDRESS :		E-MAIL ADDRESS :			
SNo.	Description for BHEL Requirement	REQUIRED	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE:				
1.1	Helium Leak Detector is required to check the leak detection of Rotor input lead of 270MW TG Rotor by pressurising with helium gas.	vendor to confirm			
2.0	Scope of supply:-The scope of supply include supply & commissioning of Helium Leak Detector along with accessories at B.H.E.L. works as per this technical specification.	vendor to confirm			
3.0	Test object details: 270MW hydrogen cooled TG Rotor input lead to be checked by helium leak test.	vendor to confirm			
4	Basic equipment & Specification:-				
4.1	Helium Leak Detector is required to function in Sniffing and vacuum leak test modes.	vendor to confirm			

4.2	The equipment shall be portable	vendor to confirm			
4.3	Leak rate display: 1×10^{-12} mbar l/s to 0.1mbar l/s or wider.	vendor to confirm			
4.4	Minimum detectable leak rates :				
4.4.1	Sniffer mode : 1×10^{-7} mbar l/s or less	vendor to confirm			
4.4.2	Vacuum mode : 5×10^{-12} mbar l/s or less	vendor to confirm			
4.5	Detectable Gas: Helium 4	vendor to confirm			
4.6	Start up time: 5 minutes (maximum)	vendor to confirm			
4.7	Response time: 1 second (maximum)	vendor to confirm			
4.8	Clean up time: Less than 10 seconds after sniffing helium	vendor to furnish details			
4.9	High vacuum and backing / roughing pumps - oil free	vendor to furnish details			
4.10	Sniffer probe : The length of sniffer probe shall be 5 mtrs minmum	vendor to confirm			
4.11	Calibrated test leaks shall be supplied	vendor to confirm and furnish details			
4.12	Transport cage/cart/trolley shall be supplied	vendor to confirm			
4.13	The equipment shall be able to run directly on 230 V + / -10V /50 Hz AC Power Supply.	vendor to confirm			
4.14	Suitable voltage stabiliser shall be supplied	vendor to confirm			
4.15	Any material / component / accessory not specifically stated but which are necessary for trouble free operation of the equipment shall be supplied.	vendor to confirm			
5.0	Spares:				
5.1	Itemised break-up of Spares used on the equipment in sufficient quantity as per recommendation of vendor for 5 years trouble free operation shall be offered by vendor. The list to include following, in addition to other recommended spares: (Unit price of each item of spare should be offered).	vendor to confirm and furnish details			

5.1.1	Sniffer probe = 1 Number	vendor to confirm			
5.1.2	Ion source with filament = 1 number	vendor to confirm and furnish details			
5.1.3	Calibrated test leak = 1 number	vendor to confirm and furnish details			
5.2	All types of spares for total equipment and accessories should be available for atleast ten years after commissioning of the equipment. If equipment or control is likely to become obsolete in this period, the vendor should inform BHEL sufficiently in advance and provide drawings of parts / details of spares & suppliers to enable BHEL to procure these in advance, if required.	vendor to confirm			
6.0	O&M Manual:-3 sets of in hardcopies and 2 sets in softcopies of Operation and maintenance manuals in English shall be supplied with the equipment.	vendor to confirm			
7.0	Calibration certificate of Helium Leak Detector shall be furnished along with equipment.	vendor to confirm			
8.0	Packing:- The Helium Leak Detector shall be packed in a suitable water proof/vibration proof packing boxes capable of bearing transit hazards. Various packing boxes shall be properly identified and marked giving details of dimensions, net/gross weight. The equipment shall have proper casing/ covers for its instruments/assemblies for safe handling storage.	vendor to confirm			
9.0	Commissioning : The Helium Leak Detector shall be commissioned and demonstrated for trouble-free operation by the vendor at B.H.E.L. works. Any special instrument/equipment required for commissioning shall be brought by the supplier.	vendor to confirm			

10.0	<p>Warranty:-</p> <p>Vendor shall offer warranty of 24 months for the total system from the date of successful commissioning and handing over. Any spare required during warranty period shall be arranged by the vendor free of cost and duty levied is to be borne by the vendor. Vendor to provide full warranty of the total system including all accessories supplied.</p>	vendor to confirm			
11.0	<p>Training:-</p> <p>Training for a period of total four working days in two phases on operation and maintenance of the equipment to be imparted to four B.H.E.L. engineers at B.H.E.L. works.</p>	vendor to confirm			
12.0	QUALIFYING CONDITIONS				
12.1	<p>Only those vendors who have supplied and commissioned at least one number helium leak detector of same or better accuracy of Minimum detectable leak rates compared to specification in clause numbers 4.4 in last 10 years (on the date of opening of tender) and such equipment is presently working satisfactorily for more than one year after commissioning (on the date of opening of tender) shall quote. However, if referred equipment has been supplied to BHEL, then referred equipment should be presently working satisfactorily for more than six months after its commissioning and acceptance (on the date of opening of tender) in BHEL.</p>	vendor to confirm and furnish details			
12.2	<p>The following information shall be submitted by the vendor about the companies where referred equipments have been supplied. This is required for all vendors for qualification of their offer.</p>	vendor to confirm and furnish details			

12.2.1	Name & complete address of the customer / company, where such equipment (s) is(are) installed.	vendor to furnish details			
12.2.2	Year of Commissioning of the supplied equipment.	vendor to furnish details			
12.2.3	Broad specifications of the supplied equipment including Model, Minimum detectable leak rates etc.	vendor to furnish details			
12.2.4	Application for which the equipment has been supplied.	vendor to furnish details			
12.2.5	Performance certificate with specific mention of Model, Minimum detectable leak rates from the customer(s) regarding satisfactory performance of the equipment supplied to them.	vendor to confirm and furnish details			
12.2.6	Name, designation, address, Phone no., FAX no. and email address of the issuer of the Performance Certificate/ contact person of the customer.	vendor to confirm and furnish details			
12.2.7	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.	vendor to confirm			