



**BHARAT HEAVY ELECTRICALS LIMITED**

CORPORATE RESEARCH & DEVELOPMENT DIVISION

VIKASNAGAR, HYDERABAD - 500 093, INDIA

PHONES: 23774494 (EXCHANGE)

DIRECT: 23882104/23882204/

23778474/23776772

FAX : 91 40 23770698

RD:DP:MPX:F-04

## ENQUIRY

To - Enquiry No: 350990091 Enq Date: 24-MAY-09 Due Date: 18-JUN-09 Delivery By:

-

-

Pin -

Email :

Attn. .

PLEASE SUBMIT YOUR QUOTATION IN SEALED COVER SUPERSCRIBED WITH ENQUIRY NO, ENQUIRY DATE AND DUE DATE SUBJECT TO OUR TERMS AND CONDITIONS ENCLOSED, FOR THE FOLLOWING MATERIALS SO AS TO REACH US ON OR BEFORE THE DUE DATE BY 12 NOON. THE TENDERS WILL BE OPENED AT 2 PM ON THE SAME DAY

PLEASE GIVE REFERENCE OF ENQ NUMBER , ENQ .DATE AND DUE DATE IN ALL YOUR CORRESPONDENCE FOR PROMPT ACTION. IN CASE IF YOU ARE NOT MAKING THE OFFER PLEASE POST A REGRET LETTER AND RETURN THE DOCUMENTS.

SL NO	DESCRIPTION / SPECIFICATION	UNIT	QTY
1	1000 KV (RMS), 1.0 Amp AC TEST TRANSFORMER (FREQUENCY = 50Hz) WITH CONTROLS AND ASSOCIATED ACCESSORIES AS PER THE CNLOSED SPECIFICATIONS NO. PSHVE:09:AC01	NO	1
NOTE: RE-TENDERING TO EXPLORE THE POSSIBILITY OF IMPROVED RESPONSE.			

Please submit your offer in Two parts as per enclosed "General Terms and Conditions of enquiry & Contract for the purchase of Goods/ Services" in separate sealed covers as detailed below:

- 1) First cover shall contain a) Technical & Commercial bid, b) Compliance Statement, c) Un-priced Price bid, i.e. a copy of the Price bid with the price(s) columns left blank.
  - 2) Second Cover containing Price bid.
- If the Price bid is found to be different from the un-Priced Price bid in any way, the offer will be rejected.
- 3) GUARANTEE CERTIFICATE : REQUIRED
  - 4) MANUFACTURERS TEST CERTIFICATE : REQUIRED
  - 5) ERECTION & COMMISSIONING : REQUIRED
  - 6) ACCESSORIES : REQUIRED

Note:

- 1) ALL OFFERS MUST INCLUDE NAME OF CONTACT PERSON, PHONE NO, FAX NO, EMAIL ID. UNSIGNED/INCOMPLETE OFFER(S) ARE LIABLE FOR REJECTION.
- 2) Taxes & Duties quoted will be taken for cost evaluation & order placement and no change will be entertained later except in the case of changes made by the Government.
- 3) Changes in Taxes and Duties because of the changes in Turnover etc. will be to the supplier's account.
- 4) In case any Taxes/duties exempted, a self declaration for the same may be attached to the offer.

REVERSE AUCTION: BHEL RESERVES THE RIGHT TO PROCURE ABOVE ITEMS THROUGH REVERSE AUCTION.

AS WE ARE ENGAGED IN R&D ACTIVITY "C" FORM WILL NOT BE ISSUED

Yours faithfully

for

BHARAT HEAVY ELECTRICALS LTD

KAKKAR PK

Sr Manager

Email: pkkakkar@bhelrnd.co.in

PLEASE FILL UP THE ENCLOSED VENDOR REGISTRATION FORM AND SEND IT ALONG WITH YOUR QUOTATION. OTHERWISE YOUR QUOTATION WILL NOT BE CONSIDERED. (IGNORE THIS IF YOU HAVE ALREADY SUBMITTED THIS FORM)



**BHARAT HEAVY ELECTRICALS LTD.,**  
CORPORATE R&D DIVISION  
VIKAS NAGAR, HYDERABAD-500093 (INDIA)

**PURCHASE SECTION**  
0091 40 2377 8474

0091 40 2377 6320 (F)

Mr. P.K. Kakkar

[pkkakk@bhelrnd.co.in](mailto:pkkakk@bhelrnd.co.in)

**TECHNICAL SECTION**  
**PHONE:** 0091 40 2388 2334

0091 40 23776320 (F)

**Contact:** Mr. S.Rengarajan ( or )  
Mr. A.K.Adikesavulu

**E-mail:** [srenga@bhelrnd.co.in](mailto:srenga@bhelrnd.co.in) ( or )  
[akak@bhelrnd.co.in](mailto:akak@bhelrnd.co.in)

Enquiry No. :

Date :

SPEC.NO.

PSHVE:09:AC01

### **SPECIFICATION CUM COMPLIANCE CERTIFICATION FOR AC TEST TRANSFORMER**

#### **Important**

1. Vendor must submit complete information against clause no. 28.1, 28.3 and 29.0. The offer meeting this clause would only be processed.
2. The offer and all documents enclosed with offer should be in **English language only**.
3. BHEL reserves the right to verify the information submitted by the vendor. **The offer with false/ incorrect/incomplete information may be rejected.**
4. Vendor shall sign and stamp all sheets
5. Offers submitted shall be valid for a period of minimum 8(eight) months from date of commercial bid.
6. Revised technical bid may be necessary should the specification need modification on technical scrutiny.
7. Vendor must answer all points leaving no blanks

<b>ADDRESS OF THE SUPPLIER :</b>	<b>ADDRESS OF THE INDIAN AGENTS :</b>
<b>TELEPHONE NOS.:</b>	<b>TELEPHONE NOS.:</b>
<b>FAX NOS.:</b>	<b>FAX NOS.:</b>
<b>CONTACT PERSON:</b>	<b>CONTACT PERSON:</b>
<b>E-MAIL ADDRESS :</b>	<b>E-MAIL ADDRESS :</b>

**SCOPE:** Design, manufacturing, pre-despatch testing, supply, installation at site and commissioning of AC TEST Transformer(Frequency =50 Hz) for GIS application and related accessories complying with following specifications and training of BHEL staff.

**Quantity:** ONE (1) Set

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
1.0	EQUIPMENT: 1000 kV(RMS), 1.0 Amp AC test transformer (Frequency =50 Hz) with controls and associated accessories, hereinafter referred as transformer.	Our requirement			

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
1.1	<b>Intended Use:</b> The transformer will primarily be used for developmental tests viz., power frequency over-voltage and partial discharge tests on metal clad power equipment like Gas Insulated Sub-stations (GIS) rated up to 765 kV and solid insulations in gaseous insulating medium. It will also be used for power frequency testing of other UHV power equipment and components. The maximum capacitive load of the GIS under test will be 1500 pF excluding the transformer, voltage divider capacitance and coupling capacitor.	Vendor to conform			
1.2	The equipment shall be designed to operate in a shielded High Voltage Laboratory (Maximum size: <b>24000 mm diameter x 20000 mm</b> clear height).	Vendor to note			
1.3	Input Voltage 440v, 3 Phase, 50 Hz, 4 wire system	Vendor to conform			
1.4	Input Power, kVA	Vendor to specify			
2.0	<b>Operating Principle :</b> The HV transformer is required to impress a 50 Hz voltage upon a capacitive load. A reactor compensation is provided at the input side to reduce the total power requirement.	Vendor to conform			
3.0	<b>MAIN HIGH VOLTAGE TRANSFORMER</b>				
3.1	Rated Output Voltage, kV RMS (maximum)	1000 kV			
3.2	<b>DUTY 1-Power frequency test: Voltage application</b> Max 1000 kV on a total load which includes object under test (maximum 1500 pF) plus transformer and voltage divider capacitance. Rated current requirement at this voltage for one minutes duration excluding voltage rise and fall time	Vendor to conform			
3.3	<b>DUTY 2-Partial Discharge test:</b> Initial pre-stressing voltage at 960 kV for one minute, bring down the voltage to 554 kV and maintained for a maximum duration of 5 minutes for a total load which includes object under test (maximum 1500 pF) plus transformer, voltage divider and coupling capacitor capacitance.	Vendor to conform			
3.4	<b>DUTY-3</b> Continuous rated current	Vendor to specify			
3.5	Operating frequency	50 Hz			
3.6	ON/OFF duty cycle with respect to clauses 3.2 and 3.3	Vendor to specify.			

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
3.7	Overload factor ( current and time)	Vendor to specify.			
3.8	<b>Construction of transformer</b> :Complete earthed metal clad type preferably with aluminum/stainless steel body.	Vendor to conform			
3.9	<b>Insulation</b> : Primarily SF6 gas.	Vendor to conform			
3.10	<b>Termination</b> : Two types of terminations shall be available 1)Gas to Gas ; The HV terminal can be terminated with a GIS spacer (Insulator) so that the transformer can be directly connected to a GIS system. 2) <b>Gas to air</b> ; The HV terminal can also be terminated with a SF6 – Air bushing. The testing can be done with only one termination at a time depending upon the requirement. Normally the former arrangement is employed and whenever necessary the bushing is connected to the transformer. Vendor must give details of connection and disconnection of the bushing to the transformer. Vendor to indicate the details of the flange dimensions at the terminal. Details of current limiter if any shall be indicated	Vendor to conform			
3.11	<b>Constructional features</b> : (i) It must be possible to top up the transformer SF6 gas by a gas handling unit (identical to DILO system). (ii)The LV terminals are brought out in a terminal box.	Vendor to specify			
3.12	SF6 Gas pressure in the transformer preferably should be less than or equal to 5 bar	Vendor to conform			
3.13	<b>Protection features: 1)</b> A temperature monitoring device shall be provided to indicate the transformer temperature and also to trip the system in case of overloading of the windings and 2) Pressure monitoring controls to protect the transformer during situations of lower pressures.	Vendor to conform			
4.00	<b>Coupling Capacitor</b> : A suitable partial discharge free gas insulated coupling capacitor rated up to 1000 kV, able to get sensitivity level of 3 pC or less with test object, shall be part of equipment. The capacitor must be provided in a separate metal clad housing and connected to the transformer by a suitable junction filled with SF6 gas. This capacitor will be used for partial discharge measurements. This can be demonstrated during the acceptance. The test procedure has to meet IEC 62271-203 and IEC 60271.The vendor should provide all the technical details about achieving sensitivity level of 3 pC or less in technical bid incase the coupling capacitor capacitance is less than the load capacitance.	Vendor to conform			
5.00	<b>High Voltage divider</b> : Measurement of high voltage is through a high voltage capacitor divider. The voltage measurement is directly read on the control panel. The measurement of voltage must conform to IEC 60060-1.Total measurement error is +/- 1 %.	Vendor to conform			

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
6.0	<b>HV Bushing:</b> Composite insulation system consists of a suitable housing, compatible to SF6 gas with silicon rubber sheds. The insulation between the metal conductor and the housing is SF6 gas at suitable pressure (preferably 5 bar). The bushing must also have a corona shield at the top so that at the test voltage level no corona takes place. The PD level of the bushing should be 5 pC up to the voltage level of 1000 kV. The bushing along with the corona shield must be able to perform PD test and other AC tests within the available laboratory space as specified in clause 1.2. Suitable creepage length is provided so that no external flash over will occur in a normal laboratory conditions. The vendor should indicate the weight of the bushing and the handling methods.	This is an optional item and is to be quoted separately. The indenter has an option to procure this item separately at a later date with in two years at the prevailing market price. However, the vendor must commit to supply this item.			
7.0	<b>Connectors:</b> These are to be metal clad type with SF6 gas insulation and used for connecting the load (GIS), HV bushing, coupling capacitor, to the test transformer. The design configuration shall be specified by the vendor.	Vendor to conform			
8.0	<b>Regulating transformer:</b> Regulating transformer should be of indoor type. The variation of voltage should be smooth. The cubicle must also have a zero-start interlock. The input and output voltages have to be specified by the vendor. Necessary protection against high voltage surges shall be provided as per requirement.	Vendor to conform.			
9.0	<b>Compensating reactor:</b> A compensating reactor has to be provided between the regulating transformer and the test transformer. This compensates the capacitive load of the GIS (maximum 1500 pF), the capacitor divider, the coupling capacitor and the transformer. The compensation is required for a total load. The vendor must indicate the number of windings and methods of compensation	Vendor to specify			
10.0	<b>Power Line filter :</b> Power line filter of appropriate rating for feeding the SF6 insulated HV test transformer for sensitive PD measurement shall be provided by vendor.	vendor to conform			
11.0	<b>Control Circuit:.</b> The control unit with state of art design for all the components, subsystems operation and the safety of the system with the aid of a computer, provided with software. This unit must be electromagnetically shielded. Protection from dust and dirt. EMC/EMI Shielding as per the relevant standard should be available.	Vendor to conform			
12.0	<b>Various Features of the control required:</b> Operation of the total test system including compensation automatic and manual modes Switching on/off of primary circuit breaker of regulating transformer and HV on/off Zero- interlocking indication and HV current indication Increase and decrease of voltage Setting test voltage level and rate of rise of voltage. Status of protection system Emergency trip	Vendor should specify the details so that the entire testing is automatic, user-friendly and possible report generation.			

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
13.0	<b>Tripping of the circuit :</b> The fast tripping of the input supply to the system is operational when a breakdown, or flashover occurs. The tripping to be effected when the voltage is applied beyond the set limit and also when the winding is heated up beyond the designed set limit and low pressure inside the transformer.	Vendor to conform			
14.0	<b>Protection circuit at LV side:</b> This circuit protects the regulating transformer by suppressing the transients that arise out of the breakdown/ flashover in the HV side.	Vendor to conform			
15.0	<b>Partial Discharge Measurement system:</b> The PD measurement, analysis and diagnosis system shall be supplied along with measuring system according to IEC 60270 with noise reduction filter for the total load capacitance. Sensitivity of PD measurements is 3 pC or less. A separate standard calibrator should also be supplied for calibration of the PD system. This PD detector must be a stand alone and manufactured by an internationally reputed manufacturer.	Vendor to conform			
15.1	<b>PD signal processing:</b> The signal shall be captured in digital form. Subsequently the PD signals have to be processed by a computer .	Vendor to conform			
15.2	<b>Partial Discharge display:</b> Software output display- 3 D phase resolved plot viz. -q-N (Phase angle, discharge magnitude and number of discharges) shall be provided with possible measurement and indication of discharges. Measurement of other 2 D plots like PD magnitude with Phase, PD magnitude with time and stastical parameters. Further Elliptical/straight display and window gating should also be provided.	Vendor to specify			
16.0	<b>Digital processor and other specifications: No. of channels =1 or above</b> Sampling Rate – upto 120 M Samples /sec Resolution – 10 to 14 Bit PD measurement range - Auto-ranging, upto 1,00,000 pC Reference voltage signal can be derived directly or by a separate channel.	Vendor			
17.0	<b>Specification of the computer:</b> A computer with standard specification can be used to integrate both high voltage control and PD measurements so that both data can be seen simultaneously. Both softwares should be accommodated in the same computer. The operation and measurement procedures must be user friendly using a colour monitor.. Also necessary handshake cable for transfer of the data from the digital processor to the computer must be available.	Vendor to specify			
18.0	<b>CONNECTING CONTROL CABLES</b>				

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
18.1	Minimum Length, Meters	50			
18.2	Type : Shielding/ fibre optic	YES			
18.3	Termination	Suitable connectors			
<b>19.0</b>	<b>AMBIENT CONDITIONS &amp; THERMAL STABILITY :</b>				
19.1	The equipment including all supplied items should work trouble free and efficiently under following operating conditions and should give specified performance.				
19.2	Ambient temperature in which the equipment will work (range to meet)	10-40° C			
19.3	Relative Humidity: With out HV bushing (Gas to Gas) - 95% maximum, with HV bushing (Gas to Air) - 90% maximum without condensation.	Vendor to conform			
<b>20.0</b>	<b>PRE-DESPATCH INSPECTION (PDI)</b>				
20.1	All routine and type tests shall be performed at supplier's works on the system before despatch in presence of BHEL representatives. List of tests proposed shall be furnished along with the technical offer. The test schedule will be provided by the supplier with technical offer.	Vendor to conform			
20.2	Calibration certificate for voltage measurement as per IEC standards has to be provided by the supplier	Vendor to conform			
<b>21.0</b>	<b>DOCUMENTATION :</b>				
21.1	Four sets of following documents (Hard Copies ) in English should be supplied along with the machine.				
21.2	Operating manuals for the testing transformer and related Accessories.	Vendor			
21.3	Detailed Maintenance manual, circuit diagrams, including assembly / sub assembly Drawings shall also be supplied including part list.	Vendor			
21.4	Test and Guarantee certificates	Vendor			
21.50	Catalogues of all bought out items including drawings where ever applicable.	Vendor			
21.6	Complete Master List of parts used in the machine shall be supplied by the vendor.	Vendor			
21.7	SOFT COPY of all above documentation on CD ROM, wherever applicable	Vendor			
<b>22.0</b>	<b>TRAINING:</b>				

Serial No.	DESCRIPTION OF REQUIREMENT	DESIRED TECH. SPECIFICATION	OFFERED	DEVIATIONS (IF ANY, ELSE PRINT NONE)	REMARKS( Only on deviations)
22.1	BHEL staff to be trained for acquaintance on operation and maintenance of supplied equipment <b>at the indenter's premises</b> , after commissioning, in area of use of all features, operating instructions, warnings and precautions, location and functions of control instrumentation, interlocks, preventive and periodic maintenance, operating limitations, any unique or potentially hazardous condition which could affect safe operation, etc.	Vendor			
<b>23.0</b>	<b>COMMISSIONING/ DEMONSTRATION :</b>				
23.1	Any items required for the commissioning of equipment shall be brought by supplier at the time of commissioning.	Vendor			
23.2	Demonstration of all features of the machine, control system and the accessories	vendor			
<b>24.0</b>	<b>SAFETY ASPECTS:</b> The supplier must take care of all safety aspects regarding the equipment and operating personnel. The transformer should have adequate and reliable interlocks to avoid any system damage and ensure personnel safety.	Vendor to conform			
<b>25.0</b>	<b>PACKING :</b> Air / Sea worthy rigid packing for all items of complete equipment, all accessories and other supplied items to avoid any loss / damage in transit. When equipment is dispatched in containers, all small loose items shall be suitably packed in boxes.	Vendor			
<b>26.0</b>	<b>PERFORMANCE GUARANTEE :</b> 12 months from the date of commissioning and acceptance of equipment.	Vendor to conform			
<b>27.0</b>	<b>QUALITY:</b> The transformer must comply to all relevant IEC standards and basically meet IEC 60060				
<b>28.0</b>	<b>GENERAL :</b> The vendor must supply the following information about the proposed equipment along with the offer :				
28.1	<b>Machine Model No.</b>	Vendor			
28.2	Total weight of machine.	Vendor			
28.3	<b>Detailed catalogue, sketch / photographs of the machine and accessories / attachments should be submitted with the offer</b>	Vendor			
<b>29.0</b>	<b>Qualification Requirements:</b>				
	The supplier should be of International repute and should have supplied testing transformer of similar rating or higher capacity. The supplier must have an agent in India to support the maintenance of equipment as and when required by BHEL. <b>The design adopted must be a proven one and should have been deployed for a period of three years with trouble free operation.</b> The supplier must submit along with his quotation a reference list of customers. This is minimum qualifying criterion for a supplier to qualify for this bid.	Vendor to confirm			



**AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS**

(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ONLY)

1	Type of Request (Tick One)	NEW / CHANGE
2	BHEL Vendor Code	
3	Company's Name	
4	Address	
5	City with Pin Code	
6	State	
7	PAN NUMBER	
8	Name of Contact Person	
9	Phone No with STD Code	
10	Fax No with STD Code	
11	Email Id	
12	Web Site (URL)	

**BANK DETAILS FOR EFT / RTGS**

1	Bank Name	
2	Branch	
3	Branch Code	
4	Address	
5	PHONE No.	
6	Account No.	
7	MICR/ IFSC Code	
8	Bank Swift Code	
8	NEFT/ RTGS enabled	Yes / No
10	Cancelled Cheque	Enclosed / Not Enclosed

1. I, as representative / owner of the above named company, hereby authorise BHEL R&D Hyderabad, to electronically make payments to the designated bank account. I hereby certify that the particulars given above are true, complete and correct.
2. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
3. This authority remains in full force until BHEL receives and acknowledge written notification requesting a change or cancellation.

Date:

Authorised Signatory  
Designation :

COMPANY SEAL



**BHARAT HEAVY ELECTRICALS LIMITED**  
**CORPORATE R&D DIVISION, VIKAS NAGAR, HYDERABAD – 500 093, AP, India**  
Ph: 0091-40 – 23778474, FAX: 0091-40 – 23770698

RD:MPX:F-20

**General Terms and Conditions of Enquiry & Contract for the Purchase of Goods/ Services**

1. The quotation and any order resulting from this enquiry shall be governed by these General Terms and Conditions of enquiry and contract for the supply of goods and the supplier quoting against this enquiry shall, unless specifically stipulates any different terms or conditions, be deemed to have read and agreed to the same.
2. Sealed quotations in double cover with tenderer's distinctive seal, superscribing enquiry number, date and due date are to be submitted so as to reach on or before due date & time, addressed to **Additional General Manager(MM) and Head, Bharat Heavy Electricals Limited, Corporate Research & Development Division, Vikasnagar, Hyderabad, Andhra Pradesh, India – PIN-500 093, India.**  
In the case of **Two-part bid**, each inner cover shall clearly be labeled as a) **Technical & Commercial Bid** containing technical data/ drawings/ catalogues/ quality plans along with commercial terms and conditions & copy of the price bid with the price columns left blank (unpriced price bid), b) **Price bid** containing prices quotes. Installation and/or Commissioning charges shall be spelt out in absolutely lucid terms, taking into account total charges, rather than quoting vaguely, such as charges per man-day or charges per engineer per day etc. **If the price bid was found later to be different from the unpriced price bid in any way, the offer will be rejected summarily.**
3. **Tender/ Technical bid Opening:** Unless specified otherwise, tenders/ technical bids will be opened on appointed date and time as mentioned in the enquiry or as communicated changed date/time, if any, in the presence of such of those tenderers who may be present.
4. **Delayed/ Late Tender:** Tenders, which have been posted by registered post through the postal department in time before opening date but received after tender opening, shall be treated as regular tenders. Other tenders received after tender opening time shall be treated as late tenders and normally they may be rejected.
5. The Quotation should be free from overwriting and erasures. Corrections and additions, if any, must be attested. Supplier should indicate in the quotation dimensions (Size), weight, rate etc., in the metric system unless the enquiry calls for different unit.
6. **Validity of Quotation:** All quotations shall be kept open for acceptance for a period of ninety days from the date of opening of Tenders/ Technical bid and this shall be deemed to be an express condition of all quotations. The rate shall be quoted in both figures and in words.
7. In the case of Two-part bid, the vendor should furnish technical clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
8. **Revision of Pricebid:** In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise and submit their latest price bid, then BHEL reserves the right to open their original / previous price bid also while evaluating revised bid.
9. **Pricebid Opening:** Unless specified otherwise in the enquiry, the Price bids of technically qualified vendors shall be opened with prior intimation in the presence of such of those tenderers who may be present.
10. **Conformity to Specifications:** The material should be of the best quality and shall be conforming to our specification given in our enquiry. Unless otherwise agreed upon by BHEL, no payment shall be due by BHEL in respect of any sample. Offers without details of specifications/ applicable catalogues will not be considered and are liable to be rejected.
11. **Terms of Delivery:** All suppliers shall quote the lowest prices on ex-works and FOB/FCA basis. Foreign suppliers will also indicate their Indian agent's name and address with percentage of agency commission out of the quoted price, if any. Name and Address of the supplier's Bankers address should also be given. Indian suppliers for the indigenously manufactured/ imported stock shall quote on Ex-works /Free-on-Rail/Road /FOR-destination basis, indicating packing & forwarding charges, if any, separately.
12. **Taxes and Duties:** Unless specified otherwise in the enquiry, BHEL do not provide "C" or "D" Form as it is engaged in R&D. All Indian suppliers shall clearly mention current Sales Tax/ VAT, Excise Duty, and Service Tax etc, if any, payable in addition to the quoted price and indicate applicable rates/ percentage, item-wise clearly. It will be paid only if Registration Number under State(TIN)/ Central Sales Tax or Service Tax is specifically mentioned in the Bill/Invoice. Vendors without a Sales Tax/VAT registration and applicable Service Tax registration will not be considered.
13. **Insurance:** Insurance will be arranged by BHEL in case of Ex-Works as well as FOB basis supplies.
14. **Terms of Payment:** Full payment will be made within 30 days after receipt, inspection and acceptance of the material (and where involved, Erection and commissioning of the material/ equipment at BHEL/Destination) though Electronic Fund transfer (RTGS/NEFT/SEFT) with bank charges to the supplier's account. For foreign suppliers, the preferred payment term will be on Sight Draft basis and bank charges inside India will be to BHEL account and outside India will be to supplier's account.
15. Suppliers shall quote competitive price and best delivery for all the items mentioned in the enquiry. BHEL reserves the right to reject partial quotations and to place order on overall landed cost basis. Correct date of effecting supplies in the event of an order should be indicated in the offer. If the supplier's quoted terms are different from BHEL standard payment terms (Refer #14 above), interest @11% per annum (or as indicated in the enquiry) will be loaded to the quoted prices for difference of payment period.
16. **Packing:** The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit and indicate packing charges, if any, separately.
17. **Part/ Split Ordering:** BHEL reserves right to Order part of the item/ quantity of the enquiry and split the order among qualified vendors.
18. In case the goods enquired are on Rate Contract basis with any other unit of BHEL, such fact should be clearly indicated in the quotation giving full particulars of Rate Contract number, validity and price and also your willingness to comply with order if placed against such Rate Contract. A true copy of Rate contract signed by the supplier should be sent with the quotation.
19. **Inspection:** On receipt, the goods shall be subjected to inspection and also test, if necessary, and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.
20. **Penalty for late delivery:** The time stipulated for delivery of goods shall be deemed to be the essence of the contract and delivery must be completed within the stipulated date/s. In the event of supplier's failure to supply the goods by the stipulated date/s, a penalty of ½% per week for the delayed no of weeks or part thereof for the undelivered portion of PO subject to a maximum of 10% of total order value shall be levied at the discretion of BHEL.
21. **Withdrawal from the Contract:** In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
22. **Guarantee/ Warranty certificate and Manufacturer's Test report:** Invariably in all cases where it is so stipulated, the supplier should furnish Guarantee/ Warranty certificate valid for a period of 18 months from date of supply or 1 year from the date of receipt, acceptance and commissioning(or more, if provide by oem) whichever earlier and manufacturer's Test report along with the goods, failing which, BHEL shall have the right to reject the goods.
23. All ferrous/ non-ferrous items shall be colour coded as per bureau of Indian standards/ or IS standards/ BHEL Standards.
24. **Recovery of Dues:** BHEL shall recover any amount due from the supplier or any amount outstanding to the credit of the supplier with BHEL R&D unit or any other BHEL unit(s) and/or by legal action.
25. **Arbitration & Forum for Legal Proceedings:** All disputes arising in connection with indigenous/ foreign supplies shall be settled through arbitration held at Hyderabad, AP, India and arbitration shall be appointed by Arbitration Tribunal of the Federation of Andhra Pradesh Chambers of Commerce and Industry, Hyderabad, AP, India. The Courts at Secunderabad/ Hyderabad, AP, India shall have jurisdiction in respect of any suit or other legal proceeding arising from or relating to this contract

The rights and remedies of BHEL stated in these General terms and conditions shall be in addition and supplemental to its rights and remedies under law and custom or usage of trade or business and shall in no way be deemed to limit, curtail, supercede or derogate from its said rights and remedies.



RD:MPX:F-18

**BHARAT HEAVY ELECTRICALS LIMITED**  
**CORPORATE R&D Division**  
**Vikasnagar, Hyderabad, Andhra Pradesh, India – 500093.,**

**IMPORTED**

**Suppliers' compliance statement to basic conditions of enquiry** (to be submitted along with Technical & Commercial bid)  
**Enquiry number:** **Enquiry dt:**

**(In case Order to be placed on the Principal and foreign currency)**

Condition	BHEL R & D's terms	Supplier's compliance (indicate Yes/No. if 'No', state terms desired)
1. Validity of offer	90 days from the tender opening date ( or as per enquiry)	
2. Delivery requirements	FCA – Nearest International Airport (or as indicated in the enquiry)	
3. Warranty	Unless specifically mentioned in the enquiry, all supplied items to be provided with warrantee for one year (or more, if provided by the OEM) from the date of acceptance/ commissioning. In case of equipment involving erection and commissioning, warrantee shall be for 18 months from the date of dispatch or 12 months from the date of commissioning, whichever is earlier	
4. Terms of payment	Sight draft. All bank charges inside India will be to BHEL R&D account and outside India will be to the supplier's account. Documents through State Bank of India, Trade Finance Central processing Cell (TFCPC), Opp. Anand Theatre, Secunderabad, Andhra Pradesh, India-500003. SWIFT Code: SBININBB602, Phone: 91-40-27816795, FAX: 91-40-27720459	
5. Agency commission	Pl specify Indian agency commission charges, if any, in percentage of quotation. The same shall be paid to the agency in Indian Currency only.	
6. Erection/ Commission	As per enquiry	
7. Documentation	As per enquiry	
8. Insurance	BHEL will arrange Insurance based on intimation to our Insurance agency. Address of the agency will be mentioned in the Purchase Order.	
9. Penalty for late delivery	0.5% per week beyond the delivery date on undelivered portion subject to a maximum of 10% of the total order value.	

\* BHEL R&D reserves the right to reject any offer due to non-compliance with the above conditions and/or non-receipt of this form in duly filled condition

\* Any other elements of cost in addition to the above may please be specified in detail

(Signature and Stamp/ Seal of Vendor)



RD:MPX:F-17

**BHARAT HEAVY ELECTRICALS LIMITED**  
**CORPORATE R&D Division**  
**Vikasnagar, Hyderabad – 500093, India.**

**Suppliers' compliance statement to basic conditions of enquiry** (to be submitted along with Technical & Commercial bid)  
**Enquiry number::** **Enquiry date::**

**(In case Order to be placed on Indian supplier in Indian currency)**

Condition	BHEL R& D's terms	Supplier's compliance (indicate Yes/No. if 'No', state terms desired)
1) Validity of offer	Unless specifically mentioned in the enquiry, 90 days from the tender opening date	
2) Delivery requirements	Free delivery at our stores or FOR destination (or as indicated in the enquiry)	
3) Warranty	Unless specifically mentioned in the enquiry, all supplied items to be provided with warrantee for one year (or more, if provided by the OEM) from the date of acceptance/commissioning. In case of equipment involving erection and commissioning, warrantee shall be for 18 months from the date of despatch or 12 months from the date of commissioning, whichever is earlier	
4) Terms of payment	Unless specifically mentioned, full payment will be made within thirty days after receipt, inspection and acceptance of the material at BHEL R&D (and where involved, erection and commissioning of the material/equipment at BHEL/destination), by EFT/RTGS with bank charges, if any, to supplier's account.	
5) Taxes & Duties	Unless specifically mentioned in the enquiry, we do not provide 'C' or 'D' form. Supplier to specify rates of taxes and duties element wise and related percentages. Terms like "inclusive" or "extra" are not acceptable. Please mention "NIL" if taxes/ duties are exempted/ not applicable.	
6) Penalty for late delivery	0.5% per week beyond the delivery date on undelivered portion subject to a maximum of 10% of the total order value	

\* BHEL R&D reserves the right to reject any offer due to non-compliance with the above conditions and/or non-receipt of this form in duly filled condition

\* Any other elements of cost in addition to the above may please be specified in detail

**(Signature and Stamp/Seal of Vendor)**



RD:DP:MPX:F-14

**BHARAT HEAVY ELECTRICALS LTD.**  
**Corp. R&D DIVISION**  
**VIKAS NAGAR,**  
**HYDERABAD- 500 093 (INDIA)**

**SUPPLIER REGISTRATION FORM**

**(FOREIGN SUPPLIER)**

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR.  
WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE".  
INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

**1.0 GENERAL INFORMATION:**

1.1 ....NAME OF COMPANY

1.2 ....DETAILS OF HEAD OFFICE:

ADDRESS :  
TELEPHONE :  
FAX :  
.EMAIL :  
.WEB SITE :

1.3 ....DETAILS OF FACTORY/WORKS:

ADDRESS :  
TELEPHONE :  
FAX :  
.EMAIL :  
.WEB SITE :

1.4 ....DETAILS OF MARKETING AGENT

ADDRESS :  
TELEPHONE :  
.FAX :  
.EMAIL :  
.WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S)  
FOR PRODUCT OFFERED  
NAME(S)  
OFFICIAL CPACITY  
ADDRESS:  
TELEPHONE  
FAX  
E-MAIL

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING  
SPECIFICATION AND RANGE OFFERED  
FOR REGISTRTION  
(ATTACH BROUCHERS AND CATALOGUE)

1.10 NAME(S) OF BANKERS

1.11 BANKER'S CERTIFICATE

1.12 PORT OF LOADING

1.13 NEAREST AIRPORT

1.14 NAME OF THE INDIAN AGENT, IF ANY  
WITH AUTHORISATION LETTER

**2.0 FINANCIAL INFORMATION**

2.1 ...TOTAL CAPACITY

2.2 ...ANNUAL TURN OVER FOR LAST 3 YEARS

2.3 ...WHEHER CREDIT LICENSE ACCEPTABLE YES/NO

**3.0 QUALITY MANAGEMENT SYSTEMS**  
ENCLOSED FORMAT PART-B

3.1 EXPERIENCE LIST FOR SAME/SIMILAR ITEMS  
TO BE ENCLOSED

**4.0 .....FUTURE EXPANSION PLANS:**  
(GIVE DETAILS)

**5.0 LIST OF ENCLOSURES:**  
INCLUDING BROUCHERS, CATALOGUES, TECHNICAL  
LITERATURE ETC.

**6.0 ANY OTHER INFORMATION**

SIGNATURE OF SUPPLIER ( AUTHORIZED SIGNATORY)

NAME

DESIGNATION

DATE

.....OFFICIAL SEAL

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Note: Please attach separate sheets, if space found is inadequate



# BHARAT HEAVY ELECTRICALS LTD.

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

Ph: 040 – 23778474, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

RD:DP:MPX:F-13

## VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED\* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

### 1.0 VENDOR PROFILE:

#### 1.1 Name and address of the vendor:

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Phone Nos.:

Fax No.:

Email: 1.

2.

#### 1.2 Local representative name & address in Hyderabad/ Secunderabad:

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Phone Nos.:

Fax No.:

Email:

Contact person:

Mobile No.:

### 2.0. TYPE OF ORGANIZATION:

PROPRIETORSHIP	COMPANY	SISTER CONCERN ( mention vendor registration number of main organization)	
PARTNERSHIP	CORPORATION	Small Scale Industry	ANY OTHER (Please specify)

In case of SSI unit, copy of registration to be enclosed.

**3.0 ANNUAL TURN OVER:**

#	Year	Turn-Over
1	Current Year(budgeted)	
2	Previous year ( 200 - 0 )	
3	Prior Year ( 200 - 0 )	

**4.0 NAME AND ADDRESS OF THE BANKER:**

1. Bank Name
2. Branch name
3. Account number
4. Account Type
5. MICR Code:
6. IFSC Code(RTGS/NEFT):
7. Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

**5.0 REGISTRATION PARTICULARS ( relevant copies to be enclosed)**

- 5.1 IT Permanent Account No.(PAN):
- 5.2 State sales tax/VAT Registration No.:
- 5.3 Central Sales Tax Registration No.
- 5.4 ED Registration No.
- 5.5 Service Tax Registration No.:
- 5.6 PF Account No.:
- 5.7 Labour Licence No.:
- 5.8 ESI Account No.:

**6.0 CONTACT PERSON: S/Sri**

Designation:::

Phone/ Mobile No. :

**7.0 TOTAL NUMBER OF EMPLOYEES:**

Graduates (Engr./Scientists/ Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

**8.0 WISH TO REGISTER FOR SUPPLIES/SERVICES:**

#	Service/Supplies	Capacity
1		
2		
3		
4		
5		
6		
7		



## 9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		
3		
4		
5		
6		
7		

## 10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

## 11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No.	Year
1			
2			
3			
4			

## 12.0 ANY OTHER INFORMATION :

### DECLARATION:

The information furnished above is true and authentic.

**(CEO / PROPRIETOR)**

**SEAL:**

**DATE:**

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The competent authority reserves the right to accept or reject the registration. Registered vendors will be informed by mail / email, as convenient. Contact AGM (MM) for clarification/ additional information on registration.

A separate communication will be sent to you in case of non-registration, citing reasons thereof.

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### Instructions

1. Answer all items; use NA for items not applicable.
2. BHEL units do not require this registration.
3. Use additional sheets for want of space if required.
4. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
5. Photographs of registered office and the chief executive/proprietor shall be furnished.
6. Use A4 sheets for this document and the enclosures.

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\* REGISTERED BIDDERS, HAVING BHEL (R&D) REGISTRATION NO. OR HAVE SUBMITTED THIS FORMAT FOR REGISTRATION, NEED NOT FURNISH THIS INFORMATION AGAIN