RD:DP:MPX:F-04

BHARAT HEAVY ELECTRICALS LIMITED PHONES: 23774494 (EXCHANGE)

CORPORATE RESEARCH & DEVELOPMENT DIVISION VIKASNAGAR, HYDERABAD - 500 093, INDIA

ENOUIRY

23778474/23776772

DIRECT: 23882104/23882204/

91 40 23770698 FAX:

Enquiry No: Enq Date: Due Date: Delivery By: To 980702781 27-JUL-07 30-AUG-07 31-DEC-07 PLEASE SUBMIT YOUR QUOTATION IN SEALED COVER **SUPERSCRIBED** ENOUIRY NO. ENOUIRY 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 Pin DATE BY 12 NOON. THE TENDERS WILL BE Email: OPENED AT 2 PM ON THE SAME DAY Attn. .

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	MODEL BASED DIAGNOSTIC SOFTWARE (MDF) WITH BEARINGS	NO	1
1	MODULE FOR FAULTS IN POWER PLANT ROTATING MACHINERY.	110	-
	ENCLOSED TECHNICAL SPECIFICATIONS.		
	PLEASE QUOTE FOR SINGLE USER LECENCE		
	2. ALSO QUOTE THE PRICE FOR EACH ADDITIONAL LICENSES.		
	3. THE SUPPLIER TO INDICATE HOW FUTURE UPGRADES WILL BE		
	INCORPORATED IN THE SUPPLIED SOFTWARE.		
	4. SUPPLIER TO QUOTE FOR TRAINING CHARGES OF ANY		
	5. SUPPLIER TO MENTION MADE OF DELEVERY IN THE OFFER.		

NOTE: PLEASE SUBMIT YOUR OFFER IN TWO PARTS AS PER THE ENCLOSED ANNEXURE "AA" IN SEPARATE SEALED COVERS AS DETAILED BELOW:

- 1) FIRST COVER SHALLCONTAIN THE FOLLOWING:
- a) TECHNICAL COMMERCIAL BID ALONG WITH COMPLIANCE STATEMENT, MENTIONING APPLICABLE DUTIES, TAXES etc., AND DELIVERY TIME CLEARLY, (TERMS, CONDITIONS, AND COMPLIANCE FORM ENCLOSED)
- b) A COPY OF THE PRICE BID WITHOUT THE PRICES (UNPRICED PRICE BID)
- 2) SECOND COVER CONTAINING PRICE BID
- 3) IF THE PRICE BID IS FOUND TO BE DIFFERENT FROM THE UNPRICED PRICE BID IN ANY WAY, YOUR OFFER WILL BE REJECTED



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ENQUIRY

DIRECT: 23882104/23882204/ 23778474/23776772

FAX: 91 40 23770698

Important:

Taxes & Duties quoted by you will be taken for cost evaluation and order placement and no change will be entertained later except in the case of changes made by the Government. Changes in Taxes and Duties because of the changes in Turnover etc. also be to the supplier's account. In case no tax/duty is included, a self declaration for the exemPtion may be attached along with the offer.

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

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)

Yours faithfully for

BHARAT HEAVY ELECTRICALS LTD

BA Udai Shanker Manager

Email: udai@bhelrnd.co.in

Technical specification of Model based Diagnostic of Faults for rotating machinery (MDF).

TECHNICAL DESCRIPTION

The fault identification software herein after called as **MDF** is based on the models of the faults, of the rotor system and on shaft vibrations recorded during a run down/steady state. The faults which are to be identified are: unbalance, coupling misalignment, local bow due to rubs, extended thermal or permanent bows, transverse cracks, axial unsymmetries, and journal ovalizations.

Modelling: the model of the rotors to be made with the help of an user friendly preprocessor, the models of the bearings (stiffness and damping coefficients) are produced by the dedicated software module, introducing the geometry of the bearings and oil characteristics, load and speed. The models of the supporting structure could be simple 1 dof systems or reduced modal models where applicable.

I. Scope of the MDF

1. Pre-processing:

- 1.1 MDF should take input data of the vibrations measured in different measuring stations along the shaftline (generally near the bearings and in 2 different directions 90° apart) obtained by a monitoring system, preferably during a run down transient, splitted in its first three harmonic components, as amplitude and phase (or real and imaginary parts).
- **1.2** Rotor bearing dynamic analysis capability of multi-shaft system based on finite element method with the models of the oil film bearings (as 4 stiffness and 4 damping linearized coefficients for each rotating speed). The model of the supporting structure with mass, stiffness and damping coefficients at each bearing location and in two directions.

2. Analysis:

Based on Vibration data and rotordynamic modelling, the software should be able to simulate and identify the most probable type of fault, its position along the shaftline, its severity and its angular position. The possible faults which should be identified are:

- 2.1 unbalance.
- 2.2 coupling misalignment,
- 2.3 local bow due to rubs,
- 2.4 extended thermal bows,
- 2.5 transverse cracks,
- 2.6 axial asymmetries,
- 2.7 journal ovalizations.

3. Post processing:

The results could be given by furnishing graphs for each hypothetic fault among the possible faults and are listed below:

- 3.1 Graph with the value of the residual along the shaftline: the position where the minimum of the residual occurs is the "most likely" position of the fault; the minimum among all minima obtained for the different faults, identifies the "most likely" type of fault.
- 3.2 A graph with the values of the severity of the fault (e.g. amount of unbalance, amount of angular misalignment, depth of a transverse crack, and so on): the value in correspondence of the most likely position of the fault indicates the severity of the fault.
- 3.3 A graph with the values of the angular phase of the fault: the value in correspondence of the most likely position of the fault indicates the phase of the fault.

4. Vibration Data Management & interface with online data acquisition system:

The reference vibration data could be that of a new machine, recorded in the first few months of operation, or that one of an older machine after a successful overhaul, recorded in the first few months of operation. The reference vibrations should be stored directly in the MDF, along with the model of the machine. As soon as the actual vibration data have been transferred from monitoring system to MDF; the vector differences are to be calculated directly by MDF.

The software to be installed on a computer (portable or fixed). Once the data during steady state or during run down have been collected by a monitoring system, they should be written in an ASCII file and fed to the computer in which MDF is installed, by means of a diskette or any other connection.

The system should be activated after each run down of the machine and , in steady state situation, whenever the operator wants or when the monitoring system indicates a significant change in the vibration behaviour of the machine.

The interconnection with experienced based rules is preferable.

Supplier to mention connectivity with other rotor dynamic and diagnostic softwares which may enhance the capability of the present software. Wider connectivity will be preferable.

5. Modelling

- 5.1 The models of the rotors can be standard Timoshenko finite beam element models, with 4 degrees of freedom per node excluding the axial and the torsional degree of freedom.
- 5.2 User friendly pre-processing routine should be included for facilitating the introduction of the geometrical and material properties of the shaftline.
- 5.3 The models of the bearings (4 stiffness and 4 damping linearized coefficients for each rotating speed) have to be introduced by the user or could be produced by a dedicated software (bearing software) for which the input data are bearing load, bearing geometry and oil characteristics and speed or speeds, and output data are stiffness and damping coefficients at the selected speeds.
- 5.4 The models of the supporting structure could be simple 1 dof mass, stiffness and damping systems, one for each bearing and for each direction (horizontal and vertical). Default values should be suggested by MDF if field data are not available.
- 5.5 MDF should allow also the use of a modal model of the supporting structure, when available from field measurements or from a separate FEM analysis.

One FEM model for one BHEL selected rotor train and bearing model to be made by BHEL engineers using the software being supplied and to be checked by the supplier. This could be done during the training program in supplier's works. This will also be utilized for verification, familiarization and inspection of the software.

II. Further technical details the MDF software should handle:

1. Faults Diagnosis in steady state conditions:

The use of MDF at rated speed should also be possible though with limited accuracy as generally several faults may have similar symptoms (such as unbalance, local bow, extended bow), but the severity and the position of the different possible faults could be roughly identified by MDF. The software should also give some indication of possible corrective actions: e.g. the vibrations due to an identified unbalance in a location where no balancing plane is available can be reduced by applying in the closest balancing plane the unbalance which has been identified in this position (rotated by an angle of 180°). Or also the effect of an identified local bow can be reduced by applying the identified unbalance (rotated by an angle of 180°) in the closest balancing plane to guide a skilled operator to balance optimally with the accessible balancing planes.

2. Scope for further developments:

MDF should be suitable for further developments like:

- a) A diagnosis of faults (cracks, loss of stiffness) in the supporting structure should be able to get incorporated in MDF.
- b) A diagnosis of additional faults such as bearing looseness, electrical faults, oil film non linearity effects, could also be incorporated into the MDF.
- c) Modifications or additions according to be introduced by the supplier if required in future at extra cost.

III. Training & User Licenses

1. Training and User manuals: A user manual for MDF and a training course about using the MDF in modelling several faults should be provided.

A training programme for two BHEL engineers at Supplier works to be arranged. During training the modelling of one selected train of rotors with bearings to be checked by the supplier and finalised. This exercise will also establish the validity of the code and familiarisation of the software .

Supplier may quote for the training charges for five days for two engineers at supplier works.

2. User Licenses: The supplier should quote for one single user perpetual license and also the cost for each additional license.

Technical specification of a software for the simulation of the static and dynamical behaviour of oil film bearings. (BRGS bearing software)

Scope:

- a) BRGS to use as input data:
 - 1) the geometry of the bearing
 - 2) the oil characteristics
 - 3) the rotational speed of the shaft
 - 4) the vertical load on the bearing
- b) BRGS to calculate as output data:
 - 1) the linearized 4 stiffness and 4 damping coefficients

Bearing types are:

Cylindrical with 2 axial grooves

Cylindrical with 4 axial grooves

Partial arc

- 2 lobes
- 3 lobes
- 4 lobes
- 4 tilting pads load on pad
- 4 tilting pads load between pads
- 5 tilting pads load on pad
- 5 tilting pads load between pads

The values of length to diameter ratio are considered for each type and a third value of preload are considered where ever applicable.

Output is in tabular form or in graphical form: 4 stiffness and 4 damping coefficients for each rotating speed.

An user manual for BRGS, should be furnished.

BHARAT HEAVY ELECTRICALS LIMITED



CORPORATE R&D DIVISION, VIKAS NAGAR, HYDERABAD - 500 093, AP, India

Ph: 0091-40 - 23778474, FAX: 0091-40 - 23770698

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.
- 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),
 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 & <u>copy</u> 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. <u>If the price bid was found later to be different from the unpriced price bid in any way, the offer will be rejected summarily.</u>

- 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 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. 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) by Crossed cheque and no Bank commission charges are admissible. The Cheque will be sent by registered post and BHEL is in no way responsible if loss occurs due to delay by postal authorities and cheques falling into improper hands or through forgery or fraud. Suppliers having RBI-SEFT-enabled accounts can seek payment though Electronic Fund transfer. 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, interest @10.5% 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. **Consequences of Failure To Deliver**: 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, BHEL shall be entitled to levy 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% total order value.
- 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 incidental to the breach of contract on the part of the supplier.
- 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.

हालाइक्त संभूता

ANNEXURE "AA BHARAT HEAVY ELECTRICALS LIMITED CORPORATE RESEARCH & DEVELOPMENT DIVISION VIKASNAGAR, HYDERABAD – 500 093. INDIA

MATERIALS MANAGEMENT DEPARTMENT (Information for Technical & Commercial bids with general terms)

ENCLOSURE TO ENQ No:

DATE:

- a) Please indicate($_/$) for applicable or (X) for not applicable against each clause of the enquiry
- b) Vendor shall confirm their compliance for applicable clauses (_/) in their offer without deviation.

1) Technical offer:-

- a) Vendors to confirm compliance to all points of specifications, attached if any. Deviations if any should be specified in the offer.
- b) Vendors shall furnish relevant technical Documents / Catalogues. Drawings and Quality plan duly taking care of Purchase Specification and Quality requirements along with their offer in duplicate for Purchaser's review / Verification.

2) Two Part Bid:-

Vendor shall submit their offer in 2 parts.

- 2.1 <u>Technical Bid:-</u> Containing relevant technical data, drawings, catalogues, Quality Plan etc, along with Commercial Terms and Conditions and a <u>copy of the price bid with the price columns left blank (unpriced price bid). If the price bid was found later to be different from the unpriced price bid in any way, the <u>offer will be rejected.</u></u>
- 2.2 <u>Price Bid:</u> Containing the Price(s) quoted. Installation and or commissioning charges shall be spelt out in absolutely lucid terms taking into account the total charges rather than quoting vaguely such as charges as per man day or charges per Engineer per day etc.,

Technical bids will be opened on the due date of the enquiry or any other date fixed by BHEL. Further, vendor should furnish clarifications, if any, required within seven days after the same is sought by Purchaser. If no clarifications/reply received within 7 days, it will be construed that vendor is not interested in the tender and Purchaser will finalise tender accordingly. Price bids received on due date along with technical offers will be recorded and opened subsequently with due intimation to vendors after finalising of technical scope of supply.

These bids shall be submitted in separate sealed covers superscribing the nature of the offer (technical bid or price bid). BHEL Eng No. Due date etc.

Note: In case of non-compliance with the TWO_-PART-BID ie.. clause number 2 and subclauses 2.1 and 2.2. Purchaser reserves the right to summarily reject all such offers.

3) Delivery:-

Vendor shall confirm supply of materials as per the delivery schedule indicated in the enquiry.

4) Negotiations:-

Vendor shall quote competitive price and best delivery to avoid negotiations.

5) Commercial Terms & Conditions:-

Terms of Delivery:

- a) Vendors shall clearly indicate terms of delivery Viz: Ex-Works/FOR Despatching station/FOR Despatching station FOR Destination/FOB port of loading/FAS Port of loading in their offer. If the terms of delivery is Ex-Works, then vendors shall clearly indicate the following:
 - 1. Packing and forwarding charges.
 - 2. Documentation / Handling charges if any
 - 3. FOB FAS charges (Inland Freight & Insurance charges from vendor works to port of Loading).
- All Indian Vendors shall clearly specify the Excise Duty in percentage applicable for their supplies. Offers containing expressions such as "Extra as applicable" or "As applicable at the time of Delivery" will be summarily rejected.
- c) CST/Local Sales Tax in percentage shall be clearly indicated.

6) Validity of Quotation:-

Validity of offer should be 90 days after the opening of price bid.

7) Part or split ordering:-

Purchaser reserves the right to order part of item / quantity of the enquiry.

- 8) For clauses not mentioned in this document see the enclosed "GENERAL TERMS AND CONDITIOINS OF ENQUIRY AND CONTRACT FOR THE PURCHASE OF GOODS"
- 9) In case your terms of payment are different from our standard payment terms, interest at the rate of 10.5% per annum (or BHEL's standard rate of interest) will be loaded to your prices for the difference of period of payment.



BHARAT HEAVY ELECTRICALS LIMITED CORPORATE R&D Division

Vikasnagar, Hyderabad – 500093, India.

Suppliers' compliance statement to basic conditions of enquiry

(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	90 days from the tender opening date	
2) Delivery requirements	Free delivery at our stores or FOR destination (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	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 Crossed Cheque and no Bank commission charges are admissible.	
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.	
6) Penalty for late delivery	0.5% per week beyond the delivery date as mentioned in the Purchase order 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

(Signature and Stamp/Seal of Vendor)

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



BHARAT HEAVY ELECTRICALS LIMITED CORPORATE R&D Division Vikasnagar, Hyderbad – 500093.

IMPORTED

Suppliers' compliance statement to basic conditions of enquiry

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

BHEL R& D's terms	Supplier's compliance (indicate Yes/No. if 'No', state terms desired)
90 days from the tender opening date (or as per enquiry)	
FCA – Nearest International Airport (or as indicated in the enquiry)	
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	
Sight draft. All bank charges inside India will be to BHEL R&D account and out side India will be to suppliers account. Documents through State Bank of India, HAL Complex, Balanagar, Hyderabad, AP, India-500 042.	
Pl specify percentage charges, if any. Indian agency/agent commission will be in Indian Currency only.	
As per enquiry	
As per enquiry	
BHEL will arrange Insurance based on intimation to our Insurance agency, United India Insurance Co., DO-2, Secunderabad, AP, India.	
0.5% per week beyond the delivery date as mentioned in the Purchase order on undelivered portion subject to a maximum of 10% of the total order value	
	90 days from the tender opening date (or as per enquiry) FCA – Nearest International Airport (or as indicated in the enquiry) 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 Sight draft. All bank charges inside India will be to BHEL R&D account and out side India will be to suppliers account. Documents through State Bank of India, HAL Complex, Balanagar, Hyderabad, AP, India-500 042. Pl specify percentage charges, if any. Indian agency/agent commission will be in Indian Currency only. As per enquiry BHEL will arrange Insurance based on intimation to our Insurance agency, United India Insurance Co., DO-2, Secunderabad, AP, India. 0.5% per week beyond the delivery date as mentioned in the Purchase order on

^{*} 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



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

VENDOR REGISTRATION FORM

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

	_	-
		Before filling please refer to instructions on page-4
1.0	<u>VEN</u>	DOR PROFILE:
	1.1	& 1.2 Name and address of the vender:
		Phone Nos.:
		Fax No.: Email:
	1.4	Local representative of the vender in India/ Hyderabad:
		Phone Nos.: Fax No.:
		Email: Contact person: Mobile No.:

2.0 & 2.1 <u>Type of Organisation:</u>

PROPRIETORSHIP	COMPANY	SISTER CONCERN	ANY OTHER (Please specify)
PARTNERSHIP	CORPORATION	Small Scale Industry	

3.0 <u>Annual Turn Over:</u> Name and address of the Banker:

Sr.No.	Bank	Address

4.0 <u>REGISTRATION PARTICULARS</u>

- 4.1 IT Permanent Account No.(PAN):
- 4.2 & 4.3 State and central sales tax Registration No.:
- 4.4 ED/ Service Tax Registration No.:

PF Account No.:

Labour Licence No.:

ESI Account No.:

5.2 Contact person:

Mobile No. :

5.3 Total Number of employees:

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

6.0 Wish to register for supplies/ services other than one bidding for :

Sr.No.	Service/Supplies	Capacity
<u>1</u>		
2		
3		
4		
<u>5</u>		
<u>6</u>		
7		

6.1 Reference list:

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

Sr.No.	Customer	Volume / Year
<u>1</u>		
<u>2</u>		
<u>3</u>		
<u>4</u>		
<u>5</u>		
<u>6</u>		
7		

7.0 & 8.0 <u>Infrastructure / facilities :</u>

Sr.No.	Facility (with specifications)	Age/ Year procured
<u>1</u>		
<u>2</u>		
<u>2</u> <u>3</u>		
<u>4</u>		
<u>5</u>		
<u>6</u>		
<u>7</u>		
<u>8</u>		
<u>9</u>		
<u>10</u>		

9.0 Registration with other BHEL Unit/Units:

Sr.No.	9.1.1 <u>Unit</u>	9.1.2 Registration No.
<u>1</u>		
<u>2</u>		
3		
4		

Any Other information:

Declaration:

The information furnished above is true and authentic.

(CEO / Propritor)

SEAL:

Date:

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

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

Instructions

- 1. Answer all items, use NA for items not applicable.
- 2. BHEL units do not require this registration.
- 3. Submit the form in duplicate.
- 4. Use additional sheets for want of space if required.
- 5. Attach copies of latest document s in respect of items 4.0 (Registration no.s)
- 6. Photographs of registered office and the chief executive/proprietor shall be furnished.
- 7. Use A4 sheets for this document and the enclosures.

^{*} REGISTERED BIDDERS, HAVING BHEL (R&D) REGISTRATION NO./ HAVE SUBMITTED THIS FORMAT EARLIER, NEED NOT FURNISH THIS INFORMATION SECOND TIME (UNLESS DESIRE TO UPDATE IT).

जन्म स मधुरा

BHEL CORPORATE R & D VIKAS NAGAR- HYDERABAD - 500 093 <u>ANDHRA PRADESH - INDIA</u> 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

NOTE: PLEASE ATTACH SEPARATE SHEETS, IF SPACE FOUND IS INADEQUATE

AUTHORISED SIGNATORY

मानुस्य स्थापन

BHEL CORPORATE R & D VIKAS NAGAR – HYDERABAD – 500 093 ANDHRA PRADESH – INDIA

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

1.6	CONTACT PERSON(S) FOR PRODUCT OFFERED NAME(S) OFFICIAL CAPACITY 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 REGISTRATION (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
1.15	ANY OTHER INFORMATION:
AUTHO	PRISED SIGNATORY

BHEL CORPORATE R & D VIKAS NAGAR – HYDERABAD – 500 093 ANDHRA PRADESH – INDIA

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

2.	U	FINA	NCI	AT.	INFO	RMA	TION
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- 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 SUPPIER NAME
DESIGNATION
DATE
.....OFFICIAL SEAL

AUTHORISED SIGNATORY