



NOTICE INVITING TENDER (NIT)

TENDER REF NO : INS ENGG/ 02/2013-14

TENDER REF NO: 5000 HOURS ACCELERATED AGEING TEST (Multiple Stress Test) on Composite Long Rod Insulators Sample.

GENERAL TERMS AND CONDITIONS OF TENDER

BHEL EPD (A GOVT. OF INDIA ENTERPRISE) DESIRES TO CONDUCT **5000 Hours Accelerated Ageing test (Multiple Stress test) on Composite Long Rod Insulators** AS PER THE DETAILS MENTIONED IN PAGES **1 to 9**.

Sealed Bids are invited from eligible TESTING LABORATORIES for conducting **5000 Hours Accelerated Ageing test (Multiple Stress test) On Composite Long Rod Insulators** under TWO PART Bids:

- 1. Techno-Commercial Bid**
- 2. Price Bid**

The Tender Document may be obtained from DGM / Insl. Engg BHEL EPD Bangalore-12 and also may be downloaded from BHEL website <http://bhelceramics.com> or <http://www.bhel.com>.

Interested and eligible TESTING LABORATORIES may study the Tender document carefully and offer their bids as Techno-Commercial bid and Price bid in two separate sealed covers duly subscribing the tender name, tender ref. no & due date. Please write '**Techno-Commercial bid**' & '**Price Bid**' on the respective covers.

If the offer is found in open condition, the same will be liable for rejection.

The PRICE BID of the parties who qualify TECHNO COMMERCIALY shall be opened and net cost will be computed. The exchange rate of RBI on the date of Techno Commercial bid opening shall be taken for currency conversion.

The salient features of the Tender Document are as follows:

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|--|------------------------|
| 1. Format of Techno- Commercial Bid – Annexure 'A' | Page No. 2 |
| 2. General requirements, scope of work, Technical details | Page No. 3 to 6 |
| 3. Price Bid Format - Annexure 'B' | Page No. 7 |
| 4. Technical Specification , Scope of work of BHEL
& Testing Laboratory | Page No. 8 |
| 5. Composite Long Rod Insulators Drawing | Page No. 9 |

DGM/Ins Engg

**TECHNO COMMERCIAL BID – ANNEXUIRE ‘A’****TENDER REF NO: INS ENGG/02/2013-14****TENDER NAME: 5000 HOURS ACCELERATED AGEING TEST(Multiple Stress Test) on Composite Long Rod Insulators Sample.****DATE OF ISSUE: 10.08.2013****LAST DATE FOR RECEIPT OF TENDER: 24.08.2013 BY 2: 00 PM (IST)****OPENING OF TECHNO COMMERCIAL BID: 24.08.2013 BY 2:30 PM (IST)****ESSENTIAL QUALIFICATIONS OF TECHNO - COMMERCIAL OFFER:****ADDRESS OF TEST LABORATORY:**

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Sl. No	PARAMETER	BHEL SPEC REQUIREMENT	LAB OFFER
1	Name of Contact Person	To be mentioned	
2	Email ID	To be mentioned	
3	Mobile No.	To be mentioned	
4	Land Line No.	To be mentioned	
5	Fax No.	To be mentioned	
6	Payment Terms	Through Letter of Credit as per Cl.10 of general terms & conditions	
7	Lead Time for testing	From order date	
8	Tentative Test dates	Sept/Oct - 2013	
9	Offer Validity	120 days from tender opening	
10	Tax & duty structure	Service Tax(VAT) , Duty %	
11	Any other charges		

NOTE: Filled forms to be submitted along with Techno Commercial Bid Sealed in a separate cover duly addressed to DGM/ Insl Engg along with tender name, tender Ref. No. and Date. Tender box available at BHEL-EPD Premises (Main Gate Reception) or Sent through E-Mail to : ageingtest@bhelepd.com

SIGNATURE OF TENDERER



GENERAL TERMS AND CONDITIONS OF TENDER

TENDER REF NO : INS ENGG/02/2013-14

TENDER NAME: 5000 HOURS ACCELERATED AGEING TEST(Multiple Stress Test) on Composite Long Rod Insulators Sample

1. The Techno-Commercial Bid and the Price Bid offer shall be put in two separate sealed covers and the cover should have corresponding TECHNO - COMMERCIAL BID, PRICE BID, TENDER NAME, TENDER REF NO. AND DUE DATE WRITTEN ON IT. The sealed covers should be addressed to :

**DGM / INSULATOR ENGINEERING DEPT.
BHARAT HEAVY ELECTRICAL LS TD.,
ELECTRO - PORCELAINS DIVISION
P.B No. 1245 , SCIENCE INSTITUTE POST
Bangalore – 560012, INDIA.**

So as to reach within 2:00 pm on the due date (24.08.2013) and the tenders will be opened at 2:30 pm on the same date in presence of Vendors or their authorised representatives who wish to attend the opening of Techno Commercial bids.

The offer sent through E - mail is also acceptable. The e-mail should be addressed to ageingtest@bhelepd.com

If the offer is found in open condition, the same will be liable for rejection. The Techno Commercial offer will be opened on the due date. The Tenders meeting our Techno Commercial requirements will be considered for opening the price bid at a later stage and the eligible Testing laboratory will be intimated about the date and place of Price Bid opening. BHEL will decide on placing order based on overall L1 (Net Testing Cost).

- 1. Scope of Work of the Testing Lab:** The test lab shall arrange for the following.
 - a. Opening of the packing & arrangement of samples in the test chamber.
 - b. Carry out the test for a total duration of 5000 Hours in accordance with Annexure -B of IEC:62217:2005 & IEC TR/62730:2012
 - c. The Test Lab shall report results of the test periodically through email/fax/on line. In case of failure of any pair of samples to complete 5000 Hours, it shall be removed from the test chamber & testing shall be continued on the other pair of samples.
 - d. After the completion of the test the samples shall be repacked and handed over to our shipping agent.
 - e. Issue of 3 sets of test reports in English Language. The report shall contain complete details of test results along with photographs, Oscillograms ..etc.
- 2. Validity:** The rates finalized for contract shall be valid for SIX MONTHS from the release of work order for Testing.
- 3. Price Evaluation:** The rates quoted shall be on basis of Ex-works of testing laboratory, it shall be inclusive of unloading charges but exclusive of freight and insurance. Duties and Taxes on the date shall be explicitly mentioned. The taxes and duties will be paid extra as applicable on the date of dispatch of material from BHEL EPD Bangalore. Composite insulators will be packed in Boxes and the Boxes shall be palletized suitable to air/ ship transport. Unloading of insulators will be Testing laboratory's scope. Testing dates indicated in work orders shall be adhered unless and otherwise changes are made and communicated to BHEL by the Testing laboratory 30 days in advance.
- 4. Testing laboratory Capability & Process Requirement:** The Testing Laboratory shall have adequate facility for testing. All equipments and measuring instruments used shall be duly calibrated. The laboratory shall have personnel / process qualification and shall maintain a valid record of the same. The Lab should have sufficient trained crew to ensure smooth flow of work in addition to requisite handling facilities.
- 5. Handling Capacity:** The testing Laboratory should have minimum handling facilities for handling and mounting of Insulators.
- 6. Lead Time:** Offers shall indicate minimum and maximum lead time required to execute the orders for the tests indicated.



7. The order will be placed on the testing laboratory depending on their position in comparative statement of the original offer and subject to their acceptance.

8. Price Comparison: Prices shall be considered on TOTAL COST BASIS (COST TO BHEL). Total cost shall be worked out on price quoted including freight, excise duty, sales tax after taking out CENVAT and VAT benefits as applicable. The comparative statement prepared on the reference date shall remain firm throughout the execution period.

The Foreign Exchange rate taken for reference shall be of Reserve Bank of India on the date of Techno - Commercial Bid Opening.

A) The lowest price received against BHEL Tender need not be the commercially lowest price (L1) and BHEL reserves the right to NEGOTIATE the same.

B) BHEL reserves the right/opinion to REFLOAT the tender if L1 price is not the lowest acceptable price to BHEL.

9. Ranking Price: For ranking the vendor L1, L2, L3 etc the basis will be lowest tender value arrived at with quoted price as the basis. As far as possible overall L1 price will be considered for award of contract.

10. Payments Terms: BHEL shall open an irrevocable Letter of Credit in the name of the concerned Lab. The L/C will be opened before commencement of testing. After the completion of tests, the representative of BHEL witnessing the tests shall certify the same and 100% amount shall be payable after the submission of 3 sets of original reports in English Language.

11. Selection Criteria: The lowest bidder meeting all the technical and commercial requirements shall be awarded the contract. The bidder shall also send the details of the testing facilities including the rating of test equipments.

12. Risk Purchase Clause: If the testing Laboratory is not able to carry out the tests as per terms of contract, BHEL has the option to terminate the contract and get the tests done in different lab at the risk and cost of the awarded Testing laboratory.



13. Arbitration: Settlement of disputes, if any arises, at any time between BHEL and testing laboratory upon or in relation to or in connection with the Testing laboratory, the same shall be referred to the HEAD of BHEL unit or to a person appointed by him. The award of the arbiter shall be final and binding on both BHEL and the testing Laboratory.

14. Legal Jurisdiction: In case of any proceedings, area of Jurisdiction shall be Bangalore Court only.

15. The Tender not meeting any of the above conditions may not be entertained.

16. Clarification sought by BHEL during Technical & Commercial Evaluation: In case BHEL asks for any clarification, the Testing Laboratory has to submit the same within specified date otherwise the offer will be evaluated considering the clarifications, if any received as on specified date. No grace period or late submission is allowed.

17. Contact Person for Information :

General Contract Related queries:	
Name:	B M HIREMANI
Designation:	DGM / INSULATOR ENGG
Tel. No.:	+91 080-22182204
Email ID:	hiremani@bhelepd.com
Mobile:	+91 9449837065

ALL TESTING LABORATORIES SHOULD QUOTE FOR TOTAL COST ONLY AS PER ENCLOSED FORMAT (PRICE BID FORMAT ANEEXURE - B) IN PAGE NO. 7.

**PRICE BID – ANNEXURE ‘B’****TENDER REF NO: INS ENGG/ 02/2013-14****TENDER NAME: 5000 HOURS ACCELERATED AGEING TEST(Multiple Stress Test) on Composite Long Rod Insulators Sample**

<u>GUIDELINES TO CALCULATE COST TO BHEL EPD BANGALORE</u>			
SL NO	DESCRIPTION	RATE/STRING	
		IN FIGURES	IN WORDS
A)	<u>5000 HOURS ACCELERATED AGEING TEST(Multiple Stress Test) on Composite Long Rod Insulators Sample (one pair all the samples are identical design and manufactured during same time) as per IEC:62217/2005 and IEC TR/62730:2012</u>		
B)	TAXES IF ANY(%age VAT)		
	TOTAL COST		

NOTE: Filled Forms to be submitted along with Techno-Commercial Bid Sealed in a separate cover Duly Addressed to DGM / Insulator Engg. The Cover May Be Put in Tender Box available at BHEL or Sent through E-Mail To ageingtest@bhelepd.com

SIGNATURE WITH COMPANY SEAL:

NAME:

DESIGNATION WITHIN COMPANY / ORGANISATION:

ADDRESS OF COMPANY / ORGANIZATION:



TENDER NAME: 5000 HOURS ACCELERATED AGEING TEST(Multiple Stress Test) on Composite Long Rod Insulators Sample

TECHNICAL SPECIFICATION

- 1. TEST OBJECT : Composite Long Rod Insulators Sample**
- 2. DRAWING No : 3 SK 2355 Rev 01 (Drg enclosed)**
- 2. TESTS : 5000 HOURS ACCELERATED AGEING TEST (Multiple Stress Test) on Composite Long Rod Insulators Sample** The test shall be performed on the sample in accordance with IEC 62217 / 2005 and IEC TR : 62730:2012.
- 3. TEST REPORT:** The report of test carried out shall include details of the test object, test procedure, test results including photographs etc. The report shall be in English language.
- 4. TEST SCHEDULE:** It is required to commence the above tests during September-2013. The laboratory shall inform BHEL in advance regarding the following activities:
 - 4.1 Date of delivery of Test objects at the test laboratory.
 - 4.2 Date of commencement of test cycles
 - 4.3 Periodical inspection schedule
 - 4.4 Probable date of completion of the test
 - 4.5 Delivery of test reports.
- 5. OTHER SCOPE OF WORK:** The test lab shall arrange the following:
 - i. Opening the packing and assembling insulators in accordance with the drawings submitted by BHEL.
 - ii. Installation of samples for carrying out tests in accordance with the Specification.
 - iii. Dismantling the tested objects & repacking them in case the samples are re imported.
 - iv. Submission of test report.
 - v. Assistance for obtaining Visa for our engineers witnessing the tests.
- 6. DISPOSAL:** The samples may be taken back or may have to be disposed off in the testing lab.
- 7. BHEL's SCOPE:** BHEL will arrange to dispatch the required number of test samples & deliver the same at the test laboratory before the commencement of testing at our cost.

