



ISO 9001-2000,ISO 14001
and OHSAS 18001 certified
company
SubContract and Purchase
Deptt.

Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)
Power Sector – Northern Region,
Plot No. 25 , Sector - 16A , Distt. Gautam Budh Nagar,
NOIDA – 2 01301 (INDIA)
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TENDER NOTICE

BHEL Power Sector, Northern Region invites bids for the following item required at BHEL PSNR,PLOT 25,SECTOR 16-A,NOIDA-201301 in India as follow: -

TSX/ BHEL PSNR AT NOIDA

Enquiry No.	Item Description	Last Date of Tender Submission & Opening
BHEL/PSNR/SCP/VKS/ E-1432	THREE PHASE RELAY INJECTION KIT AS PER SPECIFICATION ENCLOSED IN ANNEXURE-I QTY REQUIRED 01 NOS	20.09.2007 3.30PM (IST)

Notes:

1. For detailed tender enquiry, please visit BHEL web site www.bhel.com
2. Purchase Preference will be given to CPSUs as per Indian Govt. Guidelines.
3. **Consignees shall be as given below**

SDGM/TSX/BHEL-PSNR AT NOIDA

AGM/SCP



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TENDER ENQUIRY NO :PSNR/SCP/VKS/E-1432

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DESTINATION FOR SUPPLY IS AS FOLLOW:

TSX/BHEL-PSNR AT NOIDA

QUALIFYING REQUIREMENTS / PAST EXPERIENCE:-

THE OFFERED MODEL SHOULD BE FROM CURRENT MANUFACTURING RANGE. OFFER FROM ONLY THOSE MANUFACTURERS (DIRECTLY OR THROUGH THEIR AUTHORISED DEALER) WILL BE CONSIDERED WHO HAVE BEEN MANUFACTURING SIMILAR OR HIGHER CAPACITY OF THREE PHASE RELAY INJECTION KIT AND SHOULD HAVE SUPPLIED TO SOME REPUTATED ORGANIZATIONS. LIST OF CUSTOMERS SHALL BE ENCLOSED WITH TECHNICAL BIDS .BIDDERS SHALL PROVIDE THE DOCUMENTARY PROOF OF AUTHORISED SERVICE CENTERS WITH AVAILABILITY OF SPARES IN INDIA.

NOTES:-

- (i) The Tender Document comprise of following;
 - (1) Tender Notification
 - (2) Tender Invitation
 - (3) Annexure-1(Technical Specifications)
 - (4) Special Terms & Conditions.
 - (5) General Terms & Conditions.
 - (6) Rate Schedule
- (ii) Tender Documents with complete details are hosted in this web page. Bidder(s) intending to participate may download the tender document from the web site.
- (iii) Bidder(s) can also collect hard copy of tender documents from this office. Tender documents (non transferable) will be issued **free of cost on** all working days between 09.30 Hrs. to 15.30 Hrs within the period i.e **upto 19.09.2007**. Request for issue of tender document should clearly indicate Tender No. and work.
- (iii) Tenders must be submitted to the undersigned **latest by 20.09.2007** before opening of technical bids commences. Technical bids shall **be opened at 15.30 Hrs. (IST) on 20.09.2007**.(In case of holiday on 20.09.2007 opening of tenders shall take place on the next working day)
- (iv) The present destination for supply of elevators is as per given above, However, the destination is subject to change as per deployment plan at the time of delivery

- (v) All corrigenda, addenda, amendments and clarifications to this Tender will be hosted in this web page and not in the newspaper. Bidders shall keep themselves updated with all such amendments.
- (vi) BHEL takes no responsibility for any delay/loss of documents or correspondences sent by courier/post.
- (vii) Purchase Preference will be given to CPSUs as per Govt. Guidelines.

AGM/SCP

ANNEXURE-1

SPECIFICATIONS FOR SECONDARY INJECTION RELAY TEST KIT

Portable three phase secondary injection relay test kit for testing of static, numerical and electromagnetic type protection relays based on impedance, voltage, current, frequency, harmonics and synchronization with facility to stimulate all waveforms and transients. Facility for frequency variation with respect to time. Three nos. of additional current generators should be available for differential relay testing.

The relay test kit must be capable of operating with PC and without PC as a stand alone device. On board display of test parameters and measurement data.

Four phase voltage output : 4 x (0-150 V), 80 VA
2 x (0-300 V), 140 VA

Three phase current output : 3 x (0-30 A), 200 VA

Accuracy : $\pm 0.5\%$

Distortion : 0.2%

All voltages and current generators should be independently adjustable in amplitudes and phase angles. Out put should be fully overload and short circuit proof and protected against external high voltage transients.

Power supply requirement : 220 V \pm 10% AC single phase

Minimum 10 binary inputs in 2 galvanically separated groups of min 5 contacts in each group with minimum voltage 220V AC and DC.

Measuring time : 0 - 1 Hr.

Resolution : 1 ms

One auxiliary DC voltage output of 210 V DC, 70 Watts for feeding numerical relays should be provided.

Analog high and low inputs for measurement of AC/DC current and voltages as per following specifications.

DC current measuring inputs (low)

Measuring range : ± 20 mA

Accuracy : 0.03% or better

DC voltage measuring inputs (low)

Measuring range : ± 10 V

Accuracy : 0.03% or better

AC/DC current measuring inputs (High)

Measuring range : ± 10 A DC, 150 V, AC

Accuracy : 0.3% or better

AC/DC voltage measuring inputs(High)

Measuring range : ± 220 V DC, 150 V AC

Accuracy : 0.3% or better

Phase angle meas. Range : 0 -360 degree

Phase resolution : 0.1 degree

Phase accuracy : ± 0.2 degree

Generator frequency range

Continuous signals : DC - 2 KHz

Transient signals : DC - 3 KHz

Frequency accuracy : 0.01% or better

Frequency resolution : 1 mHz

Software should be windows based. Facility to automatically create the IEC and IEEE standard waveforms and/or to create other characteristics using the standard lens and linear elements.

Kit should have capability to accept transient fault data recorded by disturbance recorder and replay. Simulation software should have minimum support for following disturbance recorder like formats:

COMTRADE
EMTP INCLUDING EMTP PC
INDACTIC
REOR

Facility for self calibration through software (built in) and independent calibration box as an independent external means of verifying the calibration of relevant parameters.

Kit should be able to withstand external electromagnetic interference/noise and input voltage/frequency variations without affecting its performance.

Laptop with preloaded window based software should be provided. All standard accessories to be supplied with the kit. Instrument should be housed in a rugged/hard case for preventing damage during frequent transportation.

SPECIAL TERMS AND CONDITIONS

Sealed tenders in two part bid system i.e. Part-I – Techno-Commercial bid and Part-II - Price bid are invited for supply and testing/Demonstration of **ONE NO THREE PHASE RELAY INJECTION KIT WITH ACESSARIES**, as per detailed specifications so as to reach us before the date of opening. The tenders (Part I only) will be opened at 3.30 PM (IST) on **20.09.2007**.

Tender should not be addressed to any Individual's name but only by designation to:

**ADDITIONAL GENERAL MANAER/SCP
BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. of India Undertaking)
Power Sector-Northern Region,
Plot no.25, Sector 16 A PB NO. 55,
NOIDA –201301 (INDIA)**

The tenderers are advised to submit the bid in conformity with the following: -

1. Offer should be submitted in two part bid system as under;

1.1 Part - I Techno-Commercial bid. It should include the following: -

- i) Technical specifications along with necessary catalogues, drawings, and technical literatures for the offered **THREE PHASE RELAY INJECTION KIT** in line with the technical specifications enclosed with this tender.
- ii) Documentary evidence of **THREE PHASE RELAY INJECTION KIT** manufactured /supplied and their performance report.
- iii) Details of service facilities available in India for 'After Sales Service'.
- iv) Acceptance to commercial terms and conditions.
- v) **Normally no deviations are allowed (Techno-Commercial). However, If there are any deviations, the same should be clearly specified.** Deviation, if any, will be subject to suitable loading by BHEL and for which BHEL's decision shall be final and binding.
- (vi) In case of foreign bidder offer, the Principal's technical offer only should be enclosed, and the price should be on F.O.R.
- (vii) Prices quoted in foreign currencies shall be evaluated in INR values, conversion shall be based on the foreign exchange rates of SBI or any other national bank as on the date of price bid opening.
- (ix) Commercial
This part shall include / indicate the following :
 - a) Station of dispatch
 - b) Terms of payment
 - c) Taxes & duties applicable.
 - d) Delivery Schedule
 - e) Offer validity
 - f) A copy of "Un-Priced Part II" i.e., a copy of the Price Bid without the price details to be enclosed.

1.2 Part II (Price bid) :-

- i) As per Rate Schedule format enclosed.
- ii) The bidders should fully understand scope of supply and their responsibilities under the tender specifications before quoting. **The bidders are required to quote for all the items as per rate schedule, in part-II price bid. Conditional price bid or price bid with any deviation are liable to be rejected.** No cutting / erasing /overwriting shall be done in the price bid.

2. Following should be super scribed on the envelopes of the two parts of the Bid.**Part I: Techno-Commercial Bid:-**

Tender for:

Tender No.:

Due on :

Part II (Price bid)

Tender for:

Tender No.:

3 Both Part I and Part II should be individually sealed and super scribed as indicated above and shall be enclosed in one main envelope duly sealed and super scribed as :**Tender for :****Tender No.:****Due on:****Containing Part I and Part II of the offer.****4 The tenders should be sent sufficiently in advance so as to reach before the due date and time. BHEL shall not be responsible in case of delay in receipt of tenders.****5 Inspection, Testing & Commissioning : -**

The supplier shall offer the **THREE PHASE RELAY INJECTION KIT** and accessories for inspection & demo at destination as per international norms. Inspection shall be carried out in presence of BHEL engineers or its nominated representative.

Testing shall be carried out on receipt of THREE PHASE RELAY INJECTION KIT and shall be accepted **at destination.**

6. The delivery required is within one month from date of P.O. However, tenderers should indicate the best possible delivery period.**7. Offers should be valid for a period of 180 days from the date of Techno-Commercial bid (Part-I) opening.****8. Service support of the equipment under purchase is of utmost concern.** Tenderers shall elaborate on the service network and spare parts availability, which are to be ensured to maintain the equipment after initial commissioning and completion of warranty period. In case service/spare parts facilities are not available in India, tenderers shall indicate the maximum possible time in making such services available from places outside India.**9. The equipment being offered should be of robust design and suitable for operations in Indian climatic conditions such as saline atmosphere, ambient temperature upto 50⁰ C. The electrical and controls should be tropicalised to withstand such climatic conditions.****10. Payment Terms: Tenderer shall adhere to the following payment terms :-**

- a) 90% of Ex-Works value of **THREE PHASE RELAY INJECTION KIT** and accessories with 100% taxes, duties, freight, packing & forwarding and insurance against despatch documents.
- b) 10% of Ex-Works value of **THREE PHASE RELAY INJECTION KIT** and accessories within 30 days of acceptance of the material at destination..

The set of despatch documents for 90% payment shall be as follows

- Three Original of tax Invoices (Cenvat / Modvat Invoice)
- One original and one copy of Packing List
- Warranty Certificate for the goods
- Catalogue of model supplied
- Certificate confirming, "Goods supplied are new".

NOTES:-

- (i) Tenderers are required to specifically confirm acceptance of these payment terms in their techno-commercial offer.
- (ii) **No advance shall be paid.**

11. Warranty: -

The **THREE PHASE RELAY INJECTION KIT** offered shall carry a warranty for a period of 12 months from the date of commissioning or 18 months from dt of dispatch of **THREE PHASE RELAY INJECTION KIT** at site which ever is early. **Rectification / replacement required during the warranty period will be arranged by the supplier free of cost including to and fro transport charges and import duty/excise duty/other taxes/insurance etc payable on replacement items.**

12. On acceptance of techno-commercial and price bids, **BHEL reserves the right to conclude the contract either on Ex- works/CIF or FOR site basis at its sole discretion.**
13. All sheets of the offer should be duly signed and stamped by the tenderers.
14. In case of any contradiction between General Terms & Conditions (GTC) and Special Terms & Conditions of Contract (STC), the latter shall prevail.
15. All lubricants / consumables (except fuel), if required for successful commissioning of the **THREE PHASE RELAY INJECTION KIT** shall be supplied along with the supplies.

AGM./SCP

GENERAL TERMS & CONDITIONS

1. Manufacturer's name, their trade mark and brand, if any should invariably be mentioned in the tender and illustrative leaflets in duplicate giving technical particulars etc. should be attached to the tender, to facilitate consideration of the offer.
2. Materials should be of best quality and correct to specifications, relevant DIN/ISO/ANSI standard or any other equivalent INTERNATIONAL standard specification.
3. Correct date of affecting supplies in the event of an order from this office should be recorded in the tender.
4. Please note that our terms of payment are as per **clause 10** of "**SPECIAL TERMS AND CONDITIONS**" (enclosed).

No advance shall be paid.

In case of payment through , Bank all incidental charges will be to the Beneficiary's account.

5. Bharat Heavy Electricals Limited does not bind itself to accept the lowest tender, but reserves to itself the right to accept or reject all or part of any tender at its discretion.
6. No enhancement of rate, whatsoever the cause, will be allowed once the offer is accepted and the order is placed. Withdrawal of the offer after it is accepted or failure to make the supply within the schedule period will entail cancellation of purchase order and purchase at the risk and cost of supplier.
7. The quantities of each item to be purchased may vary according to actual requirement at the time of placement of order.
8. Supply against orders will be subject to the General Conditions of Contract prevailing in **Bharat Heavy Electricals Limited**.
9. Where Sales Tax is payable extra it will only be paid if registration numbers both under local sales tax/VAT and Central Sales Tax are specifically mentioned on the invoice. Tenderers should invariably quote their sales tax Registration No. in the offer.
10. **Liquidated Damages:** It is clearly understood between the parties to the contract that the delivery of the goods specified in the purchase order should be made within the time limit prescribed. Where the seller supplies or dispatches the goods beyond the delivery period specified, the purchaser will have no obligation to accept the goods. If accepted, liquidated damages at the rate of ½% (half percent) of the value of goods in arrears per week subject to a maximum of 10% (ten percent) of order value, will be levied at the discretion of the purchaser, without prejudice to any other relief or compensation due to the purchaser under any other condition to the contract.
11. **Risk Purchase:-** Alternatively, the purchaser at his option, will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole or any part of the goods which the supplier fails to deliver or dispatch within the time stipulated as aforesaid, or if the same were not available, the best and the nearest available substitute therefore. The seller shall be liable for any loss, which the purchaser may sustain by reason of such risk purchase in addition to L.D. at the rate mentioned in clause 10 above.
12. **Inspection:** All goods and work are subject to our inspection either at manufacture's works or after delivery as may be agreed. The decision of BHEL shall be final.

Rejected goods will be returned to the supplier at his cost including freight on original shipment. The tenderers shall also offer load test/over load test of the crane at manufacturers works in presence of engineers from BHEL. Load test shall also be carried out with available load at site as per load chart of the crane.

13. **Insurance:** - Wherever specifically agreed to, the supplier will insure at his cost the goods for all transit risks.

In all other cases, supplier must furnish particulars of despatch i.e. station of despatch and destination, name of the goods, number of cases and their weights, value of the goods including all taxes, duties, levies and freight etc. for each consignment immediately after the despatch of goods. Failure to do this will make the supplier responsible for making good any loss which might have otherwise been recovered from insurers.

Note : However, the supplier shall still remain responsible for defective parts or short supply and defective packing.

14. **Metric System:-** Suppliers are requested to give metric measurements while quoting.
15. **Arbitration :** All disputes between the parties to the contract arising out of or in relation to the contract, other than those for which the decision of the Engineer or any other person is by the contract expressed to be final and conclusive, shall after written notice by either party to the contract to the other party, be referred to sole arbitration of the General Manager or his nominee. The arbitration shall be conducted in accordance with the provisions of the Arbitration and Reconciliation Act, 1996 The place of Arbitration shall be New Delhi(India).
16. Any suites in respect of this contract shall have the jurisdiction of the courts of New Delhi (India) only.

AGM./SCP.

ANNEXURE-II**RATE SCHEDULE**

Sl.No.	DESCRIPTION	PRICE IN INR
1.	TOTAL PRICE FOR SUPPLY OF 1 (ONE) NUMBER THREE PHASE RELAY INJECTION KIT COMPLETE WITH ACESSARIES .AS PER DETAILED SPECIFICATIONS ENCLOSED WITH TENDER ENQUIRY INCLUDING TESTING & DEMO OF THREE PHASE RELAY INJECTION KIT AT DESTINATION.	
2	PACKING AND FORWARDING CHARGES	
3.	INSURANCE (MARINE) CHARGES FROM MANUFACTURING WORKS UPTO DESTINATION IN INDIA.	
4.	EXCISE DUTY, (CENVAT/MODVAT DETAILS) FOR CENVAT BENEFIT TO BHEL (CUSTOME DUTY IN CASE OF FOREGIEN SUPPLY)	
5	CST WITH AND WITHOUT C FORM	
6.	TRANSPORTATION / FREIGHT CHARGES FROM MANUFACTURER WORK PLACE TO BHEL SITE OFFICE , AS PER BELOW. TSX/BHEL-PSNR NOIDA,U.P (INDIA)	
7	TENTATIVE TOTAL	
8	CENVAT BENEFIT TO BHEL TO BE INDICATED	
	COST TO BHEL AFTER CENVAT BENEFIT	
	WARRANTY/GUARENTEE	
	DELIVERY PERIOD	
	VALIDITY OF PERIOD	
	ANY OTHER INFORMATION	

NOTES:

- Tenders will be evaluated based on the prices quoted upto FOR Site.** Bidders are requested to quote for each and every item from 1 to7 & 8 as indicated above. Please indicate NIL against items not applicable.
- CENVAT/MODVAT credit: The quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case charged to us. If the tenderer is availing **MODVAT** credit for this input materials, the effect of Performa credit should be passed on to the purchaser.
- Any other charges, if not specified above, may also be indicated.
- Incomplete offer received may not be considered.
- The Rate shall be entered in figures as well as in words. In case of difference in rates between words and figures THE LESSER OF THE TWO will be treated as valid rate.
- In case of omission in quoting any rate, the evaluation will be done considering the highest quoted rate obtained against that item but the order, if placed, will be on the lowest quoted rate obtained against that item.

(Signature and Seal of Tenderer)