



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Fax : +91-80-26989219, 26989217
Phone : +91-80-26998489
E-mail : sreenath@bheledn.co.in
Mob: 9845605037

Bharat Heavy Electricals Limited

(A Government of India Undertaking)

ELECTRONICS DIVISION

P.B. No 2606, Mysore Road, Bangalore - 560 026

An ISO 9001, ISO 14001, OHSAS 18001 & ISO/IEC 27001-2005 Company

EDN:PVE:BAP:01

DATED 15.03.13

To:

Sub: Tender enquiry for Topographical Survey, Soil testing & investigation

Ref : RFQ No. EDN:PVE:BAP:01 DATED 15.03.13 DUE 29.03.2013 1300 HRS

Dear Sir,

BHEL is executing a 5 MW PV power plant at BHEL Boiler Auxiliaries Plant (BAP), Ranipet, Tamil Nadu. The work involves construction of civil foundations for mounting Solar PV modules on support structures and construction of control room building and HT Yard for power evacuation to grid. Before commencing these works it is essential to carry out soil test as per the schedule / specification enclosed.

Address of site : BHEL Boiler Auxiliaries Plant, Indira Gandhi Industrial Complex, Ranipet, Vellore District, Tamil Nadu. Pin : 632406.

You are requested submit your techno commercial offer in a sealed cover on or before 29th March 2013. The offer shall be submitted in two parts, each in a separate Sealed Cover;

- Part 1 : containing the unpriced techno-commercial offer with details required as below
- Part 2 : containing the Price bid with tax details.

The Offers in sealed envelope containing the above covers shall be superscribed with words **“OFFER AGAINST RFQ : EDN:PVE:BAP:01 DATED 15.03.13 DUE ON 29.03.2013 AT 1300 HOURS”** and shall reach the undersigned before the due date and time:

DGM (PV SYS.ENGINEERING), SC&PV Dept., BHEL , Electronics Division (EDN), Mysore road, BANGALORE -560 026. KARNATAKA.

The Techno-commercial offer shall contain following details:

1. Technical compliance to the Scope of work listed in the schedule of this RFQ
2. Work completion schedule – the Work is required to be completed and report submitted in 5 to 6 weeks' time from placement of LOI/Work order. Vendor shall submit the schedule in his offer covering time line from mobilization at site to Report submission as per this RFQ duration.



3. General Information of the vendor viz. Registered office address, Contact details and Personnel, years of operation, email id, PAN no., TIN no., VAT and CST registration nos., etc.
4. Vendor's details with respect to Laboratory & Machinery facilities
5. Information regarding similar works completed (List & two recent Work order copies)
6. Vendor's Commercial offer shall comply with regard to payment terms and details to be furnished with respect to Tax registration, work duration period.
7. The offer shall be valid for 60 days.
8. Vendor shall make his own arrangements for the transport of personnel and equipment to the site and for the stay and boarding facilities of their team at Ranipet during the course of work.

In case of any need for clarifications, queries if any may be sent by email or by mail to the above address well in time. Request for extension in tender due date shall not be considered.

Payment terms:

- 1) 100% payment within 45 days after the submission of all the reports.
- 2) Completion of works & submission of report – within 5-6 weeks from placement of LOI/Order
- 3) No advance will be paid
- 4) Details of payee shall be furnished for effecting payment through EFT (format attached)

Thanking You,

Yours faithfully,
For BHEL – Electronics Division

M.SREENATH
DGM (PVSE - SC&PV)



**Electronic Funds Transfer (EFT) OR
Paylink Direct Credit Form**

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): _____ CREATE _____ CHANGE

BHEL Vendor / Supplier Code:	<input type="text"/>
Company Name :	<input type="text"/>
Permanent Account Number(PAN):	<input type="text"/>
Address	<input type="text"/>
	<input type="text"/>

City: <input type="text"/>	PINCODE <input type="text"/>	STATE <input type="text"/>
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Contact Person(s)	<input type="text"/>
Telephone No:	<input type="text"/>
Fax No:	<input type="text"/>
e-mail id:	<input type="text"/>

1 Bank Name:	<input type="text"/>
2 Bank Address:	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
3 Bank Telephone No:	<input type="text"/>
4 Bank Account No:	<input type="text"/>
5 Account Type: Savings/Cash Credit	<input type="text"/>
6 9 Digit Code Number of Bank and branch appearing on MICR cheque issued by Bank	<input type="text"/>
7 Bank swift Code(applicable for EFT only)	<input type="text"/>
8 Bank IFSC code(applicable for RTGS)	<input type="text"/>
9 Bank IFSC code(applicable for NEFT)	<input type="text"/>

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B 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.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone NO. with STD Code

Company Seal

Bank Certificate

We certify that _____ has an Account No _____ with us and we confirm that the bank details given above are correct as per our records.

Date:

(.....)

Place:

Signature

Please return completed form along with a blank cancelled cheque or photocopy thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Query, please call : 080-26998xxx / 2674xxxx or fax no. 080-2674xxxx



BHEL EDN RFQ REFERENCE : EDN:PVE:BAP:01 DATED
15.03.13 DUE ON 29.03.2013

PRICE BID

GEO- TECHNICAL INVESTIGATION AT BHEL - BOILER
AUXILIARIES PLANT, RANIPET PREMISES FOR
ESTABLISHING 5 MW SOLAR PV GRID CONNECTED
POWER PLANT

NAME OF BIDDER :

(AFFIX SEAL & SIGNATURE ON ALL 4 PAGES OF PRICE BID)

SL. No.	ITEM DESCRIPTION	UNIT	QTY.	RATE IN RS	AMOUNT IN RS
1	Topographical survey shall have to be done of the proposed site at suitable interval by Total station equipment. All necessary levels as entered in the Field Book have to be submitted along with pre contour layout of the total site. Based on the above survey work a general layout drawing with clear demarcation showing boundary pillars, location of control room, array yard, approach road and general drainage etc. has to be prepared. Two sets of drawings and survey reports along with all relevant documents to be submitted in hard copy. Soft copy of the drawings in ACAD, survey details also shall be made available in CDs.	Lumpsum (LS) Approximate area 25 acres	1		
2	Mobilisation of necessary equipments , men and materials to the project site for carrying out the geotechnical investigation and demobilisation of the same after completion of all the field works etc.	LS	1		
3(a)	Locating and making 150mm nominal diameter bore hole at various locations upto a maximum depth of 10m below ground level in all types of soil including laterite using suitable approved method of boring including chiselling, cleaning, providing casing pipes as required or as directed; performing standard penetration test at every 1.5m interval down to 10m depth below ground level and at change of strata and at depths wherever undisturbed soil samples could not be collected; Bore hole locations shall be identified and shown by BHEL prior to commencement	Each(Bore of 10 metres depth)	8		
3(b)	Performing standard penetration test at every 1.5m interval down to 10m depth below ground level and at change of strata and at depths wherever undisturbed soil samples could not be collected; and back filling of boreholes with sand on completion of the same etc all complete as per specification	Each(Bore of 10 metres depth)	20		

3(c)	Core drilling (Nx size) in rock up to a maximum of 10 m depth below ground level using hydraulic feed rotary drill and double tube core barrel with diamond bit including collection of core samples,	Each(If Required)	2		
3(d)	Performing SPT at locations where core recovery is less than 20%, maintaining continuous record of core recovery and RQD, keeping the cores in wooden core boxes, transporting the cores to laboratory. Locations shall be identified and shown by BHEL prior to commencement	Each(If Required)	2		
4(a)	Collection of undisturbed samples from bore holes as required	Each	20		
4(b)	Collection of disturbed samples from bore holes as required	Each	40		
5	Conducting electrical resistivity test (ERT) at various locations complete as per specification, drawings and as directed by the engineer-in-charge.	Each	6		
6	Conducting Laboratory Test on soil samples at an approved laboratory including preparation of soil samples to determine the following properties etc all complete as per specification.				
a	Atterberg Limits	Each	20		
b	Dry and Bulk density	Each	20		
c	Moisture content		20		
d	Sieve analysis	Each	20		
e	Specific Gravity and Voids Ratio		20		
f	Chemical analysis - Soil and water	Each	20		
g	Direct shear test		20		
h	CBR Test		20		
i	Shrinkage limit test	Each	20		
j	Swell pressure test	Each	20		

k	Unconfined compressive strength	Each	20		
7	Conducting Laboratory Test on rock samples (If Rock encountered) including preparation of the samples to determine the following properties etc all complete as per specification.				
a	Determination of RQD	Each	20		
b	UCC Test	Each	20		
c	Specific Gravity Test	Each	20		
d	Water Absorption test	Each	20		
8	Preparation and submission of draft report in 2 copies and final report in 5 hard copies and 2 soft copies on CDs after the approval of draft report including all field records, laboratory test results, graphs, analysis of test results and recommendation etc all complete as per specification.	LS	1		
	Total				
	Taxes on the above				
	NET TOTAL				

Total In words :