



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

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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: NLC: 01

Dtd: 28/06/2014

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

Ref: RFQ No. EDN: PVE: NLC: 01

Dear Sir,

BHEL is executing a 10 MW PV power plant at NLC, Neyveli, Cuddalore Dist, 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 and Topographical Survey as per the schedule/specification enclosed.

**Address of site: Neyveli Lignite Corporation Ltd, Neyveli, Cuddalore District,
Tamil Nadu.**

The site for 10 MW Solar PV Power Plant and is approximately 55 acres.

Following important information to be noted and offer given accordingly:

The site for 10 MW Neyveli location as cited above will be available to commence Soil Testing works immediately.

You are requested to submit your techno commercial offer in a sealed cover on or before 14th July 2014. 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 super scribed with words **"OFFER AGAINST RFQ: EDN: PVE: NLC: 01 Dtd: 28/06/2014 DUE ON 14.07.2014 AT 1300 HOURS"** and shall reach the undersigned before the due date and time:

Manager Civil, SC&PV Dept., NEB 5th Floor, BHEL, Electronics Division (EDN), Mysore Road, BANGALORE -560 026. KARNATAKA.

Tenders shall be opened on the same day at 1400 hrs. Bidders desiring to be present for the opening shall depute their representatives with due letter of authorization presented well in advance.

Security Deposit (SD): SD shall be collected from the successful tenderer and the amount shall be equivalent to 10% of the Contract value. The SD shall be refunded after a period of 3 months after completion of the works (submission and acceptance of the Final report).



PART-I (2 SHEETS)
TECHNICAL-CUM-COMMERCIAL BID

Tender Enquiry / RFQ No: EDN: PVE: NLC: 01

Date: 28/06/2014

01. NAME OF THE WORK **Soil testing & investigation**

As mentioned in the schedule of works as enclosed in ANNEXURE-PRICE BID.

02. **WORK PERIOD:** Work shall commence immediately after receipt of LOI/work order and completed within 5 to 6 weeks of the date of the LOI/work order.

03. **PAYMENT TERMS:**

(1) No advance payment

(2) 100% upon completion of work at site as certified by our Engineer Incharge

04. NAME OF CONTRACTOR :

05. Office address :

.....
.....

TEL.PH NO :

07. QUALIFICATION :

08. STAFF STRENGTH :

(A) TECHNICAL :

(B) GENERAL :

09. List of equipment's :
(List to be enclosed)

10. a) SCOPE OF WORK : UNDERSTOOD / NOT UNDERSTOOD
(As per schedule of works)

b) ACCEPT TO EXECUTE IN TOTAL : YES / NO
Within time-frame

c) BAR CHART to be submitted indicating : SUBMITTED YES / NO
Schedule of works

11. EXPERIENCE CERTIFICATE SUCCESSFULLY :
COMPLETED FOR SIMILAR CONSULTANCY



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WORKS (Copy of completion certificate to be enclosed)

12. EMD PARTICULARS : **Not applicable**
13. Security Deposit : **As Applicable mentioned in tender document**
14. a) WHETHER REGISTERED WITH BHEL UNITS OR
POWER SECTORS AND EXECUTED WORKS
(Please enclose copies of order)
- b) VALIDITY OF REGISTRATION, if any :
15. Service tax certificate enclosed : YES / NO
16. PAN CARD enclosed : YES / NO
17. TIN NO :
18. BHEL PAYMENT TERMS : ACCEPTABLE / NOT ACCEPTABLE

ಕುರಿತು ಉಪಕರಣಗಳ ವಿತರಣೆ ಮತ್ತು ಸೇವೆಗಳನ್ನು ಒದಗಿಸುವುದರಲ್ಲಿ
ಸುನಿಲ್ ರಾಹು, ಮುಖ್ಯ ನಿರ್ದೇಶಕರು, ಸಿ.ಇ.ಎಂ.ಸಿ.ವಿ.ಲಿಂಗ
SUNIL RAHA, MANAGER/SCSPV-CIVIL
BHEL-EDN, MYSORE ROAD, BANGALORE - 550 026

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NOTICE INVITING TENDER

1. TENDER NUMBER (RFQ) : END:PVE:NLC:01
2. NAME OF THE WORK : Soil testing &
Investigation 10 MW Solar PV Power
Project at NLC (NEYVELI
LIGNITE CORPORATION) Cuddalore
TamilNadu
3. STIPULATION PERIOD/
PENALTY : As per work completion schedule

Penalty for delayed completion of work:

Penalty of 0.5% per week of delay on the balance Value of works subject to ceiling of 10% of balance of work.

Price variation Clause is NOT applicable.

4. EARNEST MONEY DEPOSIT : Not applicable
5. SECURITY DEPOSIT (SD) : 50% of SD shall be submitted before start of the
Work; Balance will be recovered from running
Bills at a rate of 10% of work order value. 50% of SD
Will be released along with final bill and
Remaining 50% after 6 months from the date of
Completion of all the works.

6. LAST DATE AND TIME FOR THE
SUBMISSION OF DULY FILLED INTENDER DOCUMENT: **ON 14/07/2014 BEFORE 1300 Hr**

PLACE OF SUBMISSION : MANAGER-CIVIL, (SC&PV-ENGG),
OF TENDER DOCUMENT 5TH FLOOR, NEB, BHEL, Electronics Division, Mysore
Road, Bangalore-560026. (Karnataka)

7. DATE AND TIME : ON 14/07/2014
FOR TECHNICAL AT 1330 Hrs.

BID OPENING

NOTE: The tenderer shall return the duly filled in tender document after affixing signature on all pages.

सुनिल राहारे, मॅनेजर/सी एच पी सी-सिविल
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The Techno-commercial offer shall contain following details:

1. Technical compliance to the Scope of work listed in the schedule of this RFQ
2. BHEL Tender Terms and Conditions attached vide Annexure I shall be duly signed and sealed by the vendor and submitted along with Part 1 as a sign of acceptance.
3. 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.
4. 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.
5. Vendor's details with respect to Laboratory & Machinery facilities
6. Information regarding similar works completed (List & two recent Work order copies) as per
7. Vendor's Commercial offer shall comply with regard to payment terms and details to be furnished with respect to Tax registration, work duration period.
8. The offer shall be valid for 60 days.
9. 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 site during the course of work.
10. Vendor shall ensure safety of the operating team and personnel at site during the execution of work. To this extent vendor shall furnish certificate to BHEL as per enclosed format.

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 and acceptance by BHEL.
- 2) Completion of works & submission of report – within 5-6 weeks from placement of LOI/Order for each site.
- 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



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Annexure I

- i. Your responsibility, right and liabilities under this contract will commence from the date of acceptance of work order.
- ii. The work will have to be carried out in such a manner as not to cause any inconvenience to the other agencies working in premises.
- iii. All materials brought to the site as to have a proper check like DC, bills, etc... and duly checked and stamped at our official at site.
- iv. Please note that material brought to our site should have been approved by the engineer in charge before commencement of work and workmanship shall strictly confirm to the specification embodied on the BOQ.
- v. Some changes are likely in the quantity furnished as also the specification, the rates are a deemed to have included all such contingencies.
- vi. After the completion of the work, the entire site /area will be cleaned of debris etc. any other materials shall be handed over to concerned authorities in a neat and proper manner.
- vii. The material brought by you at site shall be taken care of by you and any loss/damage shall be to your account.
- viii. The rates quoted by you shall be firm and shall cover and include statutory levies, arising from acts of parliament or by the state legislature, the rate shall further be deemed to include statutory levies, arising from such acts, central or state which may come into force, subsequent to the submission of tender. the contractor shall note that no claim for enhancement of rates of machinery and fuel on the ground that existing statutory levies have come into effect after tender or any other ground, will be entertained on any account.
- ix. Any damage to building /structures/area made by your work men or by your agent will be made good at your own cost.
- x. The safety of your workman or your agent is your responsibility and risk and necessary insurance and the safety cover shall be taken care of by our company.
- xi. No child labour should be employed for executing the above work.
- xii. The work should strictly confirm to the standard specified in the NIT and the payment will be made as per actual site levels as jointly measured records after completion of work, certified by BHEL.
- xiii. In case, work is not completed as per the BHEL scope due to reasons arising out of material from BHEL end /your end, contractor has to complete the job at later stage without any extra changes. No overturn changes shall be paid in case of extension of work schedule.



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- xiv. Statutory obligation : you are required to meet the all the statutory obligation with regards to workers employed by you for the contractor such as a ESI, PF, minimum wage Act, workman compensation Act, Income tax Act, Employee Insurance Act etc.
- xv. The tools and tackles required shall be organized at site by you.
- xvi. Scaffolding: you have to employee scaffolding, belts/safety accessories for safety of your personal, as necessary.
- xvii. Work shall be carried out strictly as per the specification.
- xviii. You are required to adhere to provision of the EPF and prevailing Minimum wages Act in so far as they relate to the contract.

All corrigenda, addendum, amendments, time extension, clarification, etc. (if any) to above will be posted on BHEL websites www.bheledn.com & www.bhel.com. Bidders shall regularly visit website to keep themselves updated.

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ಸುನಿಲ್ ರಾಹು, ಮ್ಯಾನೇಜರ್/ಸಿಸಿಪಿ-ಸಿವಿಲ್
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**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"/> |
|----------------------------|------------------------------|----------------------------|

| | |
|-------------------|----------------------|
| 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"/> |
| 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:

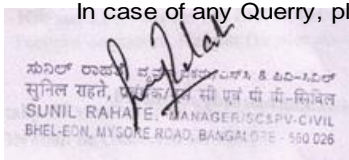
Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

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



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BHEL EDN RFQ REFERENCE: NLC:01

DATED: 28/06/2014

DUE ON : 14/07/2014

PRICE BID

GEO-TECHNICAL INVESTIGATION AT SITE FOR
ESTABLISHING SOLAR PV POWER PLANT:
10 MW AT NELVELI LIGNITE COPRN. (NLC),
NEYVELI,CUDDALORE,TAMIL NADU

NAME OF BIDDER:

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



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ಸುನಿಲ್ ರಾಹಾತೆ, ಮ್ಯಾನೇಜರ್ ಸಿ.ಸಿ.ಎಲ್-ಸಿವಿಲ್
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| SL. No. | ITEM DESCRIPTION | UNIT | QTY. | RATE IN RS | AMOUNT IN RS |
|---------|--|---------------|------|------------|--------------|
| 1 | Mobilisation of necessary equipment,men & materials to the project site for carrying out the geotechnical investigation and demobilisation of the same after completion of all the field works etc. | L.S | 1 | | |
| 2 | Location and making 150mm nominal diameter bore hole at various location upto a required depth of minimum 6 (with 1no: bore of 20m) meter below ground level in all type of the soil including laterite/weathered soft rock using suitable approved method of boring including chesiling,cleaning,providing casing pipes are required are as directed; perfoming standard penetration test at every 1.5m interval down to required depth below ground level and at change of strata and at the depth however undisturbed soil samples could not be collected; Bore hole location shall be identified and shown by BHEL prior to commencement | Running Meter | 80 | | |
| 2(b) | Perfoming standard penetration test and collecting of disturbed samples at every 1.5m interval down to required depth of minimum 6 meter to required depth below ground level and at change of strata and at depths however undisturbed soil samples could not be collected; and back filling of bore holes with sand on completion of the same etc., all complete as per specification. | No's | 53 | | |
| 3(a) | Collection of undisturbed samples from bore holes are required | Each | 30 | | |


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| | | | | | |
|------|---|------|----|--|--|
| 3(b) | Collection of disturbed samples from bore holes are required. | Each | 60 | | |
| 4(a) | Conducting electrical Resistivity Test(ERT) at various locations complete as per specification, drawings and as directed by the engineer- In-charge. | Each | 9 | | |
| 5 | 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 | 53 | | |
| b | Dry and Bulk Density | Each | 53 | | |
| c | Moisture Content | Each | 53 | | |
| d | Sieve analysis | Each | 53 | | |
| e | Specific Gravity and Void ratio | Each | 53 | | |
| f | Direct Shear Test or Triaxial Test as applicable | Each | 53 | | |
| g | CBR Test | Each | 20 | | |
| h | Shrinkage Limit Test | Each | 27 | | |
| i | Swell pressure test | Each | 27 | | |
| j | Unconfined Compressive strength | Each | 27 | | |
| 6 | Conducting Laboratory test on rock samples (if rock encountered including preparation of soil samples to determine the following properties etc. All complete as per specification. | | | | |
| a | Determination of RQD | Each | 30 | | |


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| | | | | | |
|---|---|------|----|--|--|
| b | UCC test | Each | 30 | | |
| c | Specific gravity test | Each | 30 | | |
| d | Water absorption test | Each | 30 | | |
| 7 | Preparation and submission of draft report in two copies and final report in Seven hard copies and two soft copies in CD's after the approval of draft report including all field records, laboratory test results,graphs,analysis of test results and suitable recommendation regarding type of foundation etc. all complete as per specification etc. | LS | 1 | | |
| 8 | Chemical analysis of water as per IS-456-Scope to cover organic, Inorganic,sulphates,Chlorides,PH values, suspended matter,acids,alkalies etc. to be done for two samples in the area as decided with BHEL site engineer | LS | 1 | | |
| 9 | Chemical Analysis -Soil As per relevant standard. Scope to cover content of sulphates,chlorides and PH value to be done for two samples in the area as decided with BHEL site engineer | LS | 1 | | |
| | Total | | | | |
| | Taxes on the above | | | | |
| | NET TOTAL | | | | |

Total In words:

NOTE: Quantities shown are approximate and may vary slightly as per site requirements during course investigation based on findings and accordingly the work value will vary pro-rata



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Declaration In Vendors Letter head

Subject: Certification of Work safety by Testing Agency during Topographical Survey and Soil Investigation work for Solar Power Plant at Solar Power Plant site mentioned below

This is to certify that, during the execution of the work of Topographical Survey and Soil testing at 10 MW Solar Power Plant site at NLC, Neyveli, Cuddalore district, Tamil Nadu undertaken by us, we shall be solely responsible for the Safety and health of our team consisting of site engineers, technicians and labour working at the site. Required statutory provisions governing Workmen safety and protection and accident compensation shall be our sole responsibility and entirely covered by us during the course of mobilization and execution of works.

For and on behalf of

M/s

सुनिल राहारे, मॅनेजर/सी ई व्ही पी-सिविल
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