



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: KPCL: 10MW: 01

Dtd: **01/07/2014**

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

Ref: RFQ No. EDN: PVE: KPCL: 10MW: 01

Dear Sir,

BHEL is executing 10 MW PV power plants at KPCL, Shivanasamudram, Mandya Dist, Karnataka. 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: Shivanasamudram, Mallavalli (Taluk), Mandya District, Karnataka.

The site for 10 MW Solar PV Power Plant and is approximately 50 acres.

Following important information to be noted and offer given accordingly:

The site for 10 MW Mandya location as cited above will be available to commence Survey/Testing works immediately.

You are requested to submit your techno commercial offer in a sealed cover on or before 15th 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: KPCL: 10MW: 01 Dtd: 01/07/2014 DUE ON 16.07.2014 AT 13:00 HRS**"

and shall reach the undersigned before the due date and time:

DGM , SC&PV (PVSE) Dept., NEB 5th Floor, BHEL, Electronics Division (EDN), Mysore Road, BANGALORE -560 026, Karnataka.

Tenders shall be opened on the same day at 14:00 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): Not applicable



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

Tender Enquiry / RFQ No: EDN: KPCL: 10MW: 01

Date: 01/07/2014

01. NAME OF THE WORK : **Topographical Survey, 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 **4 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 In-charge
04. NAME OF CONTRACTOR :
05. Office address :
.....
.....
- TEL.PH NO :
06. QUALIFICATION :
07. STAFF STRENGTH :
 - (A) TECHNICAL :
 - (B) GENERAL :
08. List of equipment's :
(List to be enclosed)
09. 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
10. EXPERIENCE CERTIFICATE SUCCESSFULLY :
COMPLETED SIMILAR CONSULTANCY WORKS
(Copy of completion certificate to be enclosed)



BHEL

CONTRACTOR (SIGN & SEAL)



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

सुनिल राहारे, मॅनेजर, सिविल & इन्फ्रस्ट्रक्चर
सुनिल राहारे, मॅनेजर, सिविल & इन्फ्रस्ट्रक्चर
SUNIL RAHAJE, MANAGER/SCSPV-CIVIL
BHEL-EDN, MYSORE ROAD, BANGALORE - 560 026

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Bharat Heavy Electricals Limited (Electronics Division)

Mysore Road, Bangalore -560026.

NOTICE INVITING TENDER

1. TENDER NUMBER (RFQ) : EDN:PVE: KPCL: 10MW: 01 dated 01.07.2014
2. NAME OF THE WORK : Topographical Survey, Soil testing & investigation
10 MW Solar PV Power Project at KPCL MANDYA,
KARNATAKA
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) : Not applicable
6. LAST DATE AND TIME FOR THE
SUBMISSION OF DULY FILLED IN : ON **16/07/2014** BEFORE **13:00 hrs**
TENDER DOCUMENT

PLACE OF SUBMISSION : DGM SC&PV (PVSE),
OF TENDER DOCUMENT 5TH FLOOR, NEB, BHEL, Electronics Division, Mysore
Road, Bangalore -560026. (Karnataka)
7. DATE AND TIME FOR : ON **16/07/2014** AT 13:30 Hrs.
TECHNICAL BID OPENING

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



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The Techno-commercial offer shall contain following details:

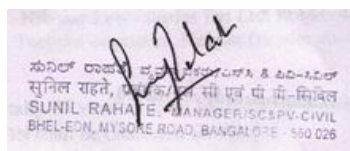
1. Technical compliance to the Scope of work listed in the schedule of this RFQ
2. BHEL Tender Terms and Conditions attached vide Annexure I shall be duly signed and sealed by the vendor and submitted along with Part 1 as a sign of acceptance.
3. Work completion schedule – the Work is required to be completed and report submitted in 4 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 **4 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,



BHEL

CONTRACTOR (SIGN & SEAL)

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.



ಸೂನಿಲ್ ರಾಹಾತೆ, ಮುಖ್ಯ ಮೇಲ್ವಿಚಾರಣಾ ಅಧಿಕಾರಿ & ಎಂ-ಇಂಜಿನಿಯರ್
ಸೂನಿಲ್ ರಾಹಾತೆ, ಮುಖ್ಯ ಮೇಲ್ವಿಚಾರಣಾ ಅಧಿಕಾರಿ & ಎಂ-ಇಂಜಿನಿಯರ್
SUNIL RAHA TE, MANAGER/SCSPV-CIVIL
BHEL-EDN, MYSORE ROAD, BANGAL ORE - 560 026

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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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SUNIL RAHA TE, MANAGER/SCSPV-CIVIL
BHEL-EDN, MYSORE ROAD, BANGAL ORE - 560 026



**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:	
Company Name :	
Permanent Account Number(PAN):	
Address	

City: _____	PINCODE	_____	STATE	_____
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Contact Person(s)	
Telephone No:	
Fax No:	
e-mail id:	

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

- 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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CONTRACTOR (SIGN & SEAL)

BHEL EDN RFQ REFERENCE: EDN: PVE: KPCL: 10MW: 01
DATED: 01/07/2014 DUE ON : 16/07/2014

PART-II (4 SHEETS)

PRICE BID

GEO-TECHNICAL INVESTIGATION AT SITE FOR ESTABLISHING
10 MW SOLAR PV POWER PLANT AT KPCL
SHIVANASAMUDRAM, MANDYA (DIST), KARNATAKA.

NAME OF BIDDER:

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

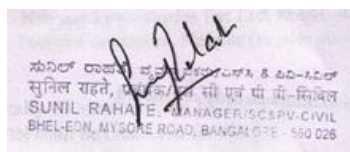


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SL. No.	ITEM DESCRIPTION	UNIT	QTY.	RATE IN RS	AMOUNT IN RS
1	Topographical survey shall have to be done of the proposed site at suitable grid interval (5M×5M) by total station equipment. All necessary levels as entered in the field book have to be 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 drainage, existing electrical Tower/ poles, and other structures detailing with elevation along with Bore hole detailing with Co-ordinates, Establishing(Setting out) the TBM points (min 6 pillars) on plant area / periphery. 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 version 10 at least, Survey details also shall be made available in CDs with GPS points of the key points as instructed by BHEL.(Approx. 50 acres)	Acres	50		
2	Mobilization of necessary equipment, men & materials to the project site for carrying out the geotechnical investigation and demobilization of the same after completion of all the field works etc.	LS	1		
3(a)	Location and making 150mm nominal diameter bore hole at various location upto required depth as per site condition maximum of 8 meter below ground level in all type of the soil including laterite/weathered soft rock using suitable approved method of boring including chiseling, cleaning, providing casing pipes as required or as directed; performing 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	54		
3(b)	Performing standard penetration test and collecting of disturbed samples at every 1.5m interval down to 8 meter depth below ground level and at change of strata at depths wherever 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	36		

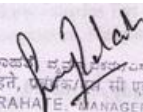


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3(c)	Core drilling (N X size) in rock upto a required depth of maximum of 6 meter to required depth below ground level using hydraulic feed rotary drill and double tube core barrel with diamond bit including collection of core samples.	Running Meter (if required only)	60		
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. Location shall be identified and shown by BHEL prior to commencement.	Each (if required only)	30		
4(a)	Collection of undisturbed samples from bore holes are required	Each	36		
4(b)	Collection of disturbed samples from bore holes are required	Each	36		
5	Conducting electrical Resistivity Test(ERT) at various locations complete as per specification, drawings and as directed by the engineer- In-charge.	Each	9		
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.				
6(a)	Atterberg limits	Each	36		
6(b)	Dry and Bulk Density	Each	36		
6(c)	Moisture Content	Each	36		
6(d)	Sieve analysis	Each	36		
6(e)	Specific Gravity and Void ratio	Each	36		
6(f)	Direct Shear Test or Tri-axial Test as applicable	Each	36		
6(g)	CBR Test	Each	8		
6(h)	Shrinkage Limit Test	Each	18		
6(i)	Swell pressure test	Each	18		
6(j)	Unconfined Compressive strength	Each	36		



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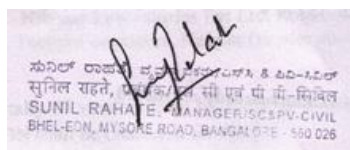
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7	Conducting Laboratory test on rock samples (if rock encountered including preparation of soil samples to determine the following properties etc. All complete as per specification.				
7(a)	Determination of RQD	Each	36		
7(b)	UCC test	Each	36		
7(c)	Specific gravity test	Each	36		
7(d)	Water absorption test	Each	36		
8	Preparation and submission of draft report in two copies and final report in five 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		
9	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		
10	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 sites 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 Shivanasamudram, Mallavalli (Taluk), Mandya District, Karnataka 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



BHEL

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