

Bharat Heavy Electricals Limited

Electronics Division
Mysore Road, Bangalore – 560 026

Tender Document for the work of:

PROVIDING CONSULTANCY SERVICES FOR CIVIL,
ELECTRICAL, AIR CONDITIONING AND OTHER ALLIED
SERVICES FOR PROPOSED NEW PROJECTS AT
FACTORY PREMISES

TENDER ENQUIRY NO: BHE/315/07/2452/16 Dt: 27/03/2008

Technical Bid opening Date: 02/05/2008

Part – A Technical cum commercial bid ...7... Pages

Part – B Price Bid ...10... Pages

Note: Part – A: To be submitted in a separate sealed cover
Along with Caution Money Deposit .

Part – B: To be submitted in a separate sealed cover.

Part-A & Part-B sealed covers should be put in outer
envelop and superscribing the Name of work and
Name & Address of the tenderer.

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Bharat Heavy Electricals Limited
ELECTRONICS DIVISION
MYSORE ROAD, BANGALORE - 560 026.

FS & T CIVIL ENGG. DEPT

NOTICE INVITING TENDERS

1. TENDER NUMBER : BHE/904/07/2452/16 dt : 27/03/2008
2. NAME OF WORK : PROVIDING CONSULTANCY SERVICES
FOR CIVIL, ELECTRICAL, AIR CONDITIONING
AND OTHER ALLIED SERVICES FOR
PROPOSED NEW PROJECT AT FACTORY
PREMISES
3. COMPLETION TIME : As per the discretion of the BHEL
4. PROJECT COST : RS. 500.00 Lakhs: (APPROXIMATE)
5. CAUTION MONEY DEPOSIT : Rs.1.00 Lakh
6. LAST DATE AND TIME FOR THE SUBMISSION OF DULY FILLED IN TENDER DOCUMENT : BEFORE 3.00 PM ON 02/05/2008
7. PLACE OF SUBMISSION OF TENDER DOCUMENT : AT THE RECEPTION
TENDER BOX / FACTORY SERVICE
BHEL / ELECTRONICS DIVISION
MYSORE ROAD,
BANGALORE - 560 026.
8. DATE AND TIME FOR TECHNICAL BID OPENING : AT 3.15 P.M ON 02/05/2008

CONSULTANT

EMPLOYER

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

ISSUED TO CONSULTANT :

Dt: 27/03/2008

Sub: Providing consultancy services for Civil, Electrical, Air conditioning and other allied services for proposed New project at Factory premises.

1. Approximate Project Cost : Rs. 500.00 lakhs
2. Proposed project : As per the Annexure – I (Enclosed)
3. Stipulation time Period : Time cycle as per the discretion of the BHEL.
(As specified in the respective work orders)
4. Details to be furnished :
 - (a) Name of Agency / Firm
 - (b) Nationality Indian ☐ Other ☐
 - (c) Address i) Regd Office
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ii) Head Office
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5. i) Telephone Number : Office :

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Residence :

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Mobile No:

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ii) Fax No. :

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iii) E-Mail Address :

EMPLOYER

6. Constitution : Individual ☐ Sole Proprietorship Concern ☐
Partnership Firm ☐ Public Ltd. Company ☐
Private Ltd. Company ☐

7. If partnership firm, names of the partners/ If Company, name of directors

1	2
3	4
5	6

8. Is the Individual/ sole Proprietor/ any partner /Director of company:

- | | |
|--|--|
| (a) Dismissed Government Servant. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (b) Removed from approved list of contractors. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (c) Demoted to a lower class of contractors. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (d) Having business banned/suspended by
any Government in the past. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (e) Convicted by a court of law. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (f) Retired Engineer/official from Engineering
Dept. of Govt. of India within last Two years. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (g) Director or partner of any other
Company/firm enlisted with any department | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (h) Member of Parliament or any State
Legislative Assembly | Yes <input type="checkbox"/> No <input type="checkbox"/> |

If answer to any of the above is 'Yes', furnish details on a separate sheet

- 9 (a) Name of person holding power of attorney
- (b) Nationality Indian ☐ Other ☐
- (c) Liabilities

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EMPLOYER

10 Name of Bankers with full address

11 Place of business

12 Full time technical staff in Applicant's employment Nos.

(a) Graduate Engineers with minimum 10 years experience ☐

(b) Graduate Engineers with minimum 5 years experience
(excluding (a) above) ☐

(c) Diploma Engineers with minimum 5 years experience ☐

(d) Estimators ☐

(e) Valuers ☐

(f) Architects ☐

(g) Interior Decorators ☐

13. (a) Whether already enlisted with BHEL or any other
Department. Yes ☐ No ☐

(b) If Yes, give details:

(i) Name of Department

(ii) Class & Category

(iii) Enlistment Authority & address

(iv) Enlistment No. & date

(v) Date of validity ☐☐ ☐☐ ☐☐☐☐

14. Is any person working with the agency is a near relative of the
officer/official of BHEL.
If Yes, give detail Yes ☐ No ☐

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II. EVALUATION CRITERION :

S.N.	Particulars	To be filled by Bidder
1.0	Experience Certificate for successfully completed similar works during immediate last 7 years as mentioned below: <i>(Similar work means : Comprehensive and Integrated Consultancy services which includes Architecture, Civil, Electrical, Telephone, LAN Networking, Fire Alarm and Air Conditioning for Industrial Buildings/ Multistoried buildings/ Offices)</i> One work not less than 80% of the estimated cost of this NIT or Two works of not less than 50 % of the estimated cost of this NIT or Three works of not less than 40 % of the estimated cost of this NIT (copy of Certificate from client in original/ attested shall be furnished)	
2.0	Average Turn Over of the last three years (not less than 30 % of the estimated cost of the NIT)	
2.1	Turn over - Previous financial year	Rs.
2.2	Turn over - 1 year before previous financial year	Rs.
2.3	Turn over- 2 years before previous financial year	Rs.
3	Solvency : (not less than the estimated cost of the NIT, Certificate from the Bank not older than one year to be furnished)	Furnished/ Not Furnished
4.0	Whether Registered with ESI / PF Authority	Yes/ No
4.1	If Yes, indicate PF Registration No. (Copy of last month contribution paid receipt to be enclosed)	Enclosed / Not enclosed
4.2	If Yes, indicate ESI Registration No. (Copy of last month contribution paid receipt to be enclosed)	Enclosed / Not enclosed
4.3	If No, Is the tenderer willing to pay the ESI and PF contribution for the subject work under BHEL Sub code, subject to BHEL Terms and conditions.	Yes/No
5.0	Whether the agency/ firm possess valid License from state Authorities/ Registration If Yes please furnish Details	Yes/ No
6.0	Is the cost of Tender document fee paid. (If the Tender document is downloaded from BHEL Website, Is the Tender document fee enclosed with the Techno Commercial Bid in the form of DD drawn in favour of "BHEL EDN, Bangalore")	Yes/ No

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7.0	Form of EMD furnished (Cheque is not acceptable)	Cash/ DD/ Pay Order
7.1	Cash (receipt No. and Date)	
7.2	DD Particulars	
8.0	Caution Money Deposit : Rs.1.00 lakh shall be payable in the form of DD along with tender (successful tenderer's amount will be retained till the completion of project).	
8.1	Draft No./ Date	
8.2	Amount	
8.3	Issuing Bank and Branch	
8.4	Branch drawn upon	
8.5	In whose favour drawn	
9.0	General Conditions of Contract & NIT	Acceptable/ Not Acceptable
10.0	Payment Terms defined in NIT	Acceptable/ Not Acceptable

Instructions: Technical Bids found deficient in any respect are liable to be rejected without further correspondence.

No. of Documents attached

Date :

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<u>PROPOSED BUILDINGS</u>		
Sl.No	TITLE OF BUILDINGS	ACTIVITIES
1	Capacity Enhancement for production & Testing of Electronic Modules.	(i) Civil works (ii) Electrical works (iii) Air conditioning works
2	Proposed Buildings for Centre of Excellence for Power Electronics	(i) Civil works (ii) Electrical works
3	Expansion of New Engineering Building Sixth floor	(i) Civil works (ii) Electrical works
4	Proposed CE Assembly Block II	(i) Civil works (ii) Electrical works
5	Construction of New Block for HRM Group	(i) Civil works (ii) Electrical works

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PART B : PRICE BID

SCHEDULE

Sub: Providing Consultancy services for Civil, Electrical,
Air conditioning and other allied services inside the
BHEL, EDN Factory premises.

Description	Consultancy Fee in Percentage to be quoted
<p>Providing Consultancy services for proposed projects as per Annexure-I for Civil / Electrical / Air conditioning works at BHEL- EDN Premises.</p> <p>The scope of work involves rendering service for Civil, Electrical and Air conditioning services such as :</p>	
<p>a) preparation of preliminary drawing with Contour Map in respect of the existing ground levels & furnishing detailed layout / structural / Architectural design drawing and allied services as desired by BHEL time to time. Including visits by the Architect / consultant/ their representatives to the proposed site of constructions & discussion with concern authorities periodically for the total span of the contract.</p>	
<p>b) i. Design of Power Supply and Lighting system, Layout drawings for Lighting, power supply system, Telephone wiring, LAN Networking, Fire Alarm system, integrating with other services, Single line diagrams, Bill of Quantity with Detailed specifications, Price estimate, Rate analysis supported with Price lists/ Quotations, Product Catalogues wherever necessary.</p> <p>ii. Interact and coordinate with Employer representatives and submit stage-wise draft schemes for their approval.</p> <p>iii. Prepare separate Tender documents for Electrical work to include BHEL Terms and Conditions, BOQ and Drawings.</p> <p>iv. Periodic inspection of site and coordinate with Electrical contractor to resolve any clarifications arising during the course of execution of work, in consultation with the Employer representatives.</p> <p>v. Witness commissioning tests and certify conformance to standards and Tender requirement, provide as built drawings both (Hard copy and Soft copy)</p>	<p>..... %</p>

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<p>c) Site study, discussions with User & Executing Departments and making necessary Heat Load calculations to Design the Plant capacity including all accessories. Preparation of Estimate with necessary backups, specifications and Drawings including BOQ.</p> <p>Preparation of Final Revised documents, if required, like specifications, bill of Quantities, Estimates with necessary backups, Drawings and documents for tendering purposes as per the requirement of BHEL(3 sets)</p> <p>Assisting the Tender Committee in evaluation of tenderers and interacting with the tenderers, if and when required by BHEL, till the placement of order on the successful tenderer.</p> <p>Liaise with the successful contractor in executing the work, visit site periodically, verify test results obtained during the commissioning of the system and assist in taking over the system from the contractor.</p> <p>Liaise with the successful contractor in sorting out the problems, if any, during the guarantee period, visit site if required, verify test results obtained during the guarantee period and assist in taking over the system from the contractor after the guarantee period.</p>	
<p>The scope of consultancy services, scale of fees and mode of payment shall be as detailed in Annexure II & III enclosed. The competitive offer should be inclusive of all taxes and levies as applicable from time to time.</p>	

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SCOPE OF CONSULTANCY SERVICES

The architects / consultancy services shall include the following:

1. To interact and take the instructions from the representatives of the employer.
2. To prepare site plans and landscape design.
3. To prepare preliminary drawings and design, outline specifications and preliminary estimates of costs.
4. To prepare final plans, drawings and design, specifications, and also final estimates of cost by cubic measurement or otherwise (including carrying out necessary revisions, till receipt of approval by the employer) & submit reports to enable the employer to take necessary decisions.
5. To assist the employer to submit required applications, drawings etc., to the corporation and / or any other local authority to obtain approvals, licenses and /or sanctions.
6. To prepare and submit detailed working drawings and estimate supported with rate analysis and Price Lists/ Quotations, Product Catalogues where necessary for all works for which the services are rendered by the architects. The architect shall furnish the calculations for the above designs when called for in specific cases.
7. To prepare detailed specifications for various items of work mentioned above.
8. To prepare tender documents / tender specifications with bill of quantities and drawings for floating tender.

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9. Periodical supervision of the work to ensure that the work is being carried out as per the design and specifications till the completion of project in all respects, Coordinate with the contractor and resolve any clarifications arising during the course of execution of work and with the approval of the employer's representative.
10. To prepare and submit five complete sets of working drawings "as built and Instruction for the employer along with reproducible of all the drawings.
11. All the above scope of services mentioned for Civil and structural works shall also apply for the following services.
 - (a) Water supply, Sanitary, Drainage, Fire Fighting Services, Interior decoration and furnitures, roads and drainages, compound wall, lift facilities.
 - (b) Electrical works including Telephone wiring, LAN Networking, Fire Alarm system and Air conditioning works.
12. The architects shall give their design for the work and calculations for the designs and shall be fully responsible for both the design and calculations.
13. The architects shall provide bar bending schedules for all the RCC works.
14. The architects shall furnish the design calculations for all the structures. These designs shall be vetted by reputed institutions like Indian Institute of Science / Bangalore etc, to be nominated by BHEL for proof checking.
15. The architect/ consultant shall help BHEL in the concrete mix design and give necessary know how in the use of concrete admixtures if require.
16. The architects shall furnish a certificate about the satisfactory completion of the work.
17. Schedule for the issue of drawings should be mutually agreed to and a proper time table to be set. It is expected that the RCC framed structural drawings including foundations should be fully available at the time of start of work.

ANNEXURE-III

TERMS AND CONDITIONS

SCALE OF FEES

The employer will pay the remuneration for the services to be rendered by the architects for the above said work at the rates quoted by them on the “actual cost of the work” and finally accepted by the BHEL. The actual cost of the work” for this purpose shall exclude the cost of land and cost of such equipments and plants which the buildings is designed to house as well as all types of work with which the architects are not directly concerned or involved. The cost shall include the cost of all the material supplied by the employer for the construction but exclude the statutory increase of prices of material within the specified project period. The total remuneration payable for the services to be rendered by the architect under this contract however shall not exceed 1.3 times of the remuneration arrived at on multiplying the accepted rate by the bare estimated cost of the work as finally vetted and accepted by BHEL based on CPWD – DSR up dated rates.

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MODE OF PAYMENT

I. The Architect will be paid fees in stages as specified below for Civil and other allied services as specified below.

- a) Preliminary inspection at proposed area and to carry out preliminary survey in respect of existing ground levels, preparation of rough sketch, Block estimates for all services and furnishing of building Layout drawing of required floors including architectural view with alternatives as directed by concerned authorities of BHEL for the approval and clearance. 10%
- b) Preparation of detailed project/ Building layout, design drawings including architectural views, Power distribution and Lighting Layouts, Single line diagrams, and estimate & the field contour Map as directed by the concerned authorities of BHEL to submit the feasibility reports to the corporate office for approval and clearance 10%
- c) Preparation of Block level of the proposed project/ Building, layout, design and architectural drawings including sets of documentation for submission for BBMP approval in line with their norms & guidelines and coordinating with the authorities time to time till the approval is obtained by the BHEL 10%

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- d) After preparation of detailed project/building layout, structural, cross sectional details, Foundation and Architectural drawings, estimate cost, supported by Rate analysis and Price Lists/ Quotations, vetted by Finance and accepted by BHEL, to proceed with tender formalities. The cost is inclusive of preparation of tender documents as directed by the BHEL Authorities. 15%
- e) After award of work, Preparation of detailed Architectural and structural design & drawings including bar bending schedule, bar chart, working drawing to large scale if necessary during construction for all buildings and connected service work as required by the concerned Engineer-in-charge from time to time (6sets of Architectural and 10 sets of RCC structural drawings to be provided.) 20%
- f) Periodical supervision of work in coordination with the contractors and to resolve any clarifications which may arise during the course of execution of work, with the approval of Employer's representative, relating to design details to be mutually agreed to BHEL and the consultant during the execution of the work till the work is completed 15%
- g) Witness commissioning Tests, Certify conformance to standards and Tender requirement wherever applicable, Preparation and submission of as built layout and design drawings with architectural details for BHEL as directed by the Engineer-in-charge including original prints 10%

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- h) The final settlement of consultancy fees shall be arrived based on the actual bill value of the project / Building completed by the respective contractors and billed accordingly. 10%

Note: 1) Percentage of consultancy fees indicated above as per the contract agreement.

2) The total of the payment made in all the stages mentioned above shall be finally adjusted to the accepted rate on the actual cost of the work, subject to the ceiling prescribed in the Para “Scale of Fees”.

3) The Percentage of consultancy fee shall be applicable for each project defined in Annexure-I of Part-A and payment shall be made according to the progress of each project.

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1. If the project is abandoned or suspended or terminated under Para (Termination of Agreement) 2 the architects shall be paid their fees for the services already rendered by them. The provisions of SI No.12 of Page (4) (Scope of consultancy Services) and SI No (2) of Page (10) (Termination of Agreement), as regards the architects responsibility shall continue to apply in respect of the work for which they received remuneration, inspite of the abandonment, suspension or termination as aforesaid.
2. **SECRECY**

The architects shall not disclose any information furnished to them by the employer nor any drawings, reports and any other information prepared by them, without the prior written approval of the employer, except in so far as disclosure is necessary for the performance of the architects work and services there under. The architects shall however be subject to the provision of the official secret act 1923, pertaining to such information at all times.
3. **THE COPY RIGHT**

The design prepared by the architects shall be the copy right of the architects but the architects shall not disclose the contents of drawings and design prepared by them in respect of the said works to any person or authority without the prior written permission of the employer.
4. The architects hereby agree that the fees to be paid to them as provided herein will be for the full discharge of functions to be performed by them in accordance with a time schedule to be mutually agreed upon and no claim whatsoever, shall lie against the employer in respect of any proprietary or patent rights on the part of any other party, relating to formulae, plans, models, drawings or designs. The architects shall indemnify and keep indemnified the employer against any such claims and against all cost and expenses paid by the employer in defending himself against such claims. The architect shall always hold the employer indemnified against any claims arising out of this agreement. Or any claims arising from third parties in respect of formulae, design or drawings employed by the architects in their agreement / contract.

TERMINATION OF AGREEMENT

1. Either party may terminate this agreement at any time by giving to either of them sixty days previous notice in writing.
2. The financial and legal responsibility for the adequacy, correctness and justification of the quantities, design, drawings and specifications furnished by the architects shall be with the architects. All errors and omission in the design, drawings and quantities or specifications furnished by the architects/consultant shall be rectified by them at their own cost. The architect / consultant further indemnify the employer fully against any and all losses arising out of bad or defective drawings, designs and specifications.
3. After the completion of the project, the consultant has to submit BHEL all the reproducible of the drawings furnished in connection with this projects.

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PART B : PRICE BID
(To be submitted in a separate sealed cover)

Name of work

PROVIDING CONSULTANCY SERVICES FOR CIVIL, ELECTRICAL,
AIR CONDITIONING AND OTHER ALLIED SERVICES FOR PROPOSED
NEW PROJECTS AT FACTORY PREMISES.

Total No. of Pages 10