



Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

Tender Document for the Work of:

Upgradation of AHU chilled water system for PV AC plant

at

BHEL, Electronics Division,
Mysore Road
Bangalore – 560 026.

Opening Date: 21.06.2013

This Tender document contains **30** pages

I. Technical Bid : Pages from 1- 28 (part-I)

- Instructions to tenderers
- Scope of Work
- Questionnaire (Annexure-1)
- Annexures
- General conditions of contract (GCC)

II. Price Bid: Pages no : 29-30 (part-II)

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**Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.**

Phone: 26998403 / 26998416/ 26998404

NOTICE INVITING TENDERS

01. Tender Number : BHEL/EDN/FS/AML/PS-50/EC/13 dt:28.05.2013
02. Name of work : Upgradation of AHU chilled water system for PV AC Plant.
03. Completion Time : 2 Months
04. Estimated Cost : Rs.2.5 Lakhs
05. Earnest Money Deposit : Rs.10000.00
06. Tender Document Fees : NIL
07. Last Date & Time for the Receipt of Completed Tender. : 21.06.2013, 2:30 PM
08. Date & Time for Tender Opening : 21.06.2013, 2:45 PM
09. Place of submission of Tender : Tender Box marked as “Factory Services “and located at Reception Area of Electronics Division, BHEL Mysore Road, Bangalore – 560 026

This tender document contains 30 Pages including the following.

01. Technical cum Commercial bid (Part – I)
02. Instructions to Tenderers
03. Schedule of Work / Price bid (Part – II)

- Note:**
1. The tenderer shall read the tender documents carefully and fill all the columns neatly. Incomplete tenders may be rejected.
 2. The tenderer shall return the duly filled in tender document after affixing signature on all pages.
 3. The Tenderers shall ensure and put “Technical cum Commercial bid (Part – I)” & “Instructions to Tenderers” together in one cover and “Schedule of Work / Price bid (Part – II)” in a separate cover. Both these covers shall be separately sealed and then put together in a single cover and sealed. All the sealed covers shall be properly identified with necessary information such as Tender reference, type of document put inside, date of tender opening to enable to open the correct document cover only.

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PART-1

**TECHNICAL-CUM-COMMERCIAL BID
(To be furnished by the Bidder)**

Name of work : Upgradation of AHU chilled water system for PV AC Plant.

Tender Ref : BHEL/EDN/FS/AML/PS-69/EC/13 dt :28.05.2013

Completion Period : 02 months.

A) : Information Part :

S.N.	Particulars	To be filled by Bidder
1.0	Name of the Contractor	
2.0	Address (Office)	
3.0	Telephone Number	
	Office	
	Mobile No.	
4.0	Email id.	
5.0	Technical Staff Details (Use separate sheet if reqd.)	Furnished/ Not Furnished
6.0	Working Staff Details (Use separate sheet if reqd.)	Furnished/ Not Furnished
7.0	Plant & Equipment details (Use separate sheet if reqd.)	Furnished/ Not Furnished

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B) : Essential Criteria for Techno-Commercial Acceptance of Bid

S.N	Particulars	To be filled by Bidder
1.0	Experience Certificate for having successfully carried out Air conditioning/chilled water system/air line/water supply system works during immediate last 7 years from the date of notification of tender as mentioned below: 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 Completion certificate/s. from the organization where the work is executed is to be enclosed. Submission of Work Order copy is not adequate)	
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 30% of 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	Security Deposit Clause as per NIT	Acceptable/ Not Acceptable

Note : If any of the above mentioned criteria is not met the bid will be rejected

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C): Other Conditions:

1.0	Has the cost of Tender document fee been 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”)	NOT APPLICABLE
2.0	Form of EMD furnished (Cheque is not acceptable)	DD/ Pay Order/Cash Document no. to be mentioned
3.0	Has the Tenderer read General Conditions of Contract & NIT	Tender Conditions Acceptable/ Not Acceptable
4.0	Completion period mentioned in NIT	Acceptable/ Not Acceptable
5.0	Payment Terms defined in NIT	Acceptable/ Not Acceptable
6.0	PAN No. of Tenderer (Copy of the same to be enclosed)	Enclosed/Not enclosed
7.0	Service Tax registration No. of Tenderer (Copy of the same to be enclosed)	Enclosed/Not enclosed

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Mysore Road, Bangalore – 560 026.
INSTRUCTIONS TO TENDERERS

Name of work : Upgradation of AHU Chilled water system for PV AC Plant.

Tender Ref: BHEL/EDN/FS/AML/PS-69/EC/13 dt:28.05.2013

1. Sealed Tenders for the above noted work are hereby invited from Contractors experienced in works of similar kind and magnitude.
2. Tenders should be addressed to AGM (FS-E&S), Electronics Division, Bharat Heavy Electricals Limited, Mysore Road, Bangalore – 560 026. The full name and address of the tenderer, name of the work and the date of opening should be indicated on the cover.
- 2.1 The local address of the Contractor, the name of the person to whom all the correspondence are to be addressed should be indicated with telephone number (both office and residence), FAX /e-mail address, Mobile phone No. etc..
3. All entries in the tender documents should be in the same ink. Erasures and over writing are not permitted. The tenderer concerned with proper indication of the name, designation and address of the person signing should duly sign all cancellations and insertions.
4. Tenderers shall fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of the tender document including the drawings (wherever applicable) attached there to before submitting tender.
5. Unit rates should be quoted in figures as well as in words in Indian Currency only i.e. Rupees and Paise with reference to each item and for all the items shown in the attached schedule. The rates shall include all taxes and duties payable on account of Service Tax, Sales Tax etc., and also expenses towards PF and ESI contributions (see clauses 8, 39 and Annexure 'C'). Amount of each item and the total on each sheet as also the grand total amount of the whole contract shall be filled by the tenderers.
6. In case the rate quoted in figures differ from those quoted in words, the lower of the rates will be taken as tendered rate and shall be binding to tenderers.
7. In quoting their rates, the tenderers are advised to take into account all factors including any fluctuations in market rates. No claim for enhanced rates will be entertained on this account after acceptance of the tender or during the currency of the contract.
8. The rates to be quoted by the tenderer shall be firm and shall cover and include all statutory levies arising from Acts, passed by Parliament or by State legislature and rules framed there under. The rates shall further be deemed to include statutory levies arising from such Acts, Central or State, which may come into force, subsequent to submission of tenders. The tenderer shall note that no claim for enhancement of rates, on the ground that existing statutory levies have been increased, or that new statutory levies

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Electronics Division
Mysore Road, Bangalore – 560 026.

have come into effect after tender, or on any other ground, will be entertained on any account.

9. (a) The rates quoted in the tender shall remain valid for a period of 'THREE MONTHS' from the date of opening of tender.

(b) Tenderer shall not increase their quoted rates, once the tenderer has submitted his quotation and during execution of the contract in case his tender is accepted.
10. Quantities shown in the attached schedule are only approximate and are liable to variation without entitling the Contractor to any compensation, provided the total value of the contract does not vary by more than 20 % (twenty percent).
11. **Before tendering, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevailing conditions, position of materials and labour. They should be well versed with BHEL General Conditions of Contract, Instructions to tenderers, drawing wherever applicable and specifications and all other documents which form part of the agreement to be entered into subsequent to award of work. The tenderers shall specially note that it is the tenderer's responsibility to provide any item which is not specially mentioned in the specification or drawing, but which is necessary to complete the work.**
12. Details and quantities of each item of work shown in the "Bill of Quantities" attached here to are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration at the discretion of the competent authority. The work under each item as executed shall be measured and priced at the corresponding rates to be quoted by the contractor in the Bill of Quantities attached here to.
13. Should a tenderer find discrepancies or omissions in the drawings wherever applicable / Specifications / Scope of work / Terms & Conditions attached to the tender documents or should be in doubt as to their meaning, he should at once address to the authority inviting the tender for clarifications.

Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently discovered and shall make no subsequent claim on account thereof.
14. In the event of tender being submitted by a firm, the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of Attorney on behalf of the firm concerned. In the latter case, a copy of the power of attorney duly attested by a Gazetted officer must accompany the tender.
15. In case, the date of tender opening falls on Holiday, the tender will be opened on the next working day.

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Electronics Division
Mysore Road, Bangalore – 560 026.

16. Every tender must be accompanied by deposit receipt for the amount mentioned as Earnest Money Deposit. This earnest money will be refunded to the unsuccessful tenderers after finalisation of the award of work. In the case of successful tenderer, the earnest money will be retained as part of the Security Deposit for satisfactory completion of the work in accordance with Clause – 16 of the BHEL General Conditions of the Contract. Tenders without Earnest Money Deposit receipts are liable to be rejected. No interest will be paid on the earnest money deposits.
17. The Earnest Money Deposit shall be submitted along with Technical bid and may be furnished in any of the following forms :
 - (a) Cash (as payable under Income Tax Rules)
 - (b) Pay Order / Demand Draft
18. Unless the Contractor whose tender is accepted signs the contract agreement within fifteen days (15 days) of the date of the order directing him to do so, the amount of Earnest Money already deposited by him may be forfeited and acceptance of his tender withdrawn.
19. If, after opening of tenders, a tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instructions of Engineer-in-charge, the Earnest Money Deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.
20. BHARAT HEAVY ELECTRICALS LIMITED reserves the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason thereof. In the case of acceptance of a part of tender, the time for completion may also be reduced to the extent considered appropriate by the accepting authority.
21. Conditional and unsigned tenders, tenders containing absurd rates and amounts, tenders which are incomplete or otherwise considered defective, tenders which are not in accordance with the tender conditions laid down by the Accepting Officer and tenders not submitted in the prescribed forms are liable to be rejected.
22. The contractors who are not on the approved list of contractors of this organisation must submit the following testimonials simultaneously with their tenders. These testimonials shall be signed by the person (s) issuing the same indicating their name, designation and full address.
 - i) A certificate to establish that the tenderer is an independent contractor working on his own.
 - ii) At least 2 certificates from responsible officers of Government or firms of repute, regarding the tenderer's capacity to undertake and carryout the work tendered for / similar work satisfactorily.
 - iii) A certificate from a Bank of standing or magistrate regarding the tenderer's financial position.

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Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

- Note: (a) Copies of testimonials unless attested by a Gazetted Officer will not be accepted.
- (b) Non – submission of the above testimonials simultaneously with the tenders may result in the tenders being rejected.
23. The tenders should be accompanied by a list of contracts already held by the Contractor at the time of submitting the tender and giving the following particulars:
- (a) Name of work, value and address.
- (b) The balance work remaining to be done on the same.
24. Tenders submitted by post should be sent by “Registered Post with Acknowledgement due”. These should be posted with due consideration for any delay in postal delivery. Tenders received after the due date of opening of tenders are liable to be rejected.
25. The Contractor’s responsibility under this contract shall commence from the date of receipt of the order or acceptance of his tender.
26. If a tenderer expires after the submission of his tender or after the acceptance of his tender, BHEL may, at their discretion, cancel such tender.
- If a partner of the firm expires after the submission of the Tender, after the acceptance of the Tender, BHEL may cancel such Tender at the discretion unless the firm retains its character (s).
27. BHARAT HEAVY ELECTRICALS LIMITED will not be bound by any power of Attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. They may however, recognise such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
28. If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage. Further the tenderer will be liable for any damage caused.
29. Words imparting the singular number shall be deemed to include the plural number and vice-versa where the context so requires.
30. The General and Special Conditions of Contract are complementary to each other and where they are in conflict, the special condition shall prevail.

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Electronics Division
Mysore Road, Bangalore – 560 026.

- 31 The expenses for completing the stamping the agreement shall be paid by the contractor.
- 32 Unless and otherwise stated all tendered work includes supply, erection, testing and commissioning of equipment as agreed to in the contract.
- 33 After completion of the job, the contractor has to furnish actual drawings of work done in consultation with Engineer-in-charge.
- 34 Any covering letter and comments of the Contractor should be submitted in duplicate along with the offer.
- 35 The Contractor shall provide all the materials needed for trial run, testing including chemicals, consumables etc. In quoting their rates, the Contractors are advised to take into account the cost of the above materials.
- 36 Should a tenderer or a contractor on the list of approved contractors have a relative or in the case of firm or Company of Contractors any of its share holder's relative is employed in a Gazetted Capacity in the Electronics Division of Bharat Heavy Electricals Limited, Bangalore – 26, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender may be disqualified or if such a fact subsequently come to light, the relevant provisions of the General Conditions of Contract will apply.
- 37 These 'INSTRUCTIONS TO TENDERERS' & 'GENERAL CONDITIONS OF CONTRACT OF BHEL' shall be deemed to form an integral part of the contract agreement for the work to be entered into. In cases of variation between the two in any matter, the conditions in the 'THE INSTRUCTIONS TO TENDERERS' shall prevail. Extracts of some of the important clauses of BHEL G.C.C are enclosed (Annexures containing extracts of clauses 20, 38 and 58 of BHEL GCC). The contractor has to obtain, at his cost, a copy of the BHEL GCC, scrutinise the same, and when submitting his tender, indicate his acceptance of BHEL GCC in the proforma enclosed at Annexure B.
- 38 All operations to be carried out by the Contractor during the execution of the contract such as drilling, welding etc., shall be done with proper equipment brought by the tenderer. Suitable power point will be provided and tapping from the power point to equipment shall be done using proper size of cable ,equipment and after getting approval of connections from our Engineer-in-charge.
- 39 The Contractor shall comply with the provision of Employees Provident Fund and Miscellaneous Provisions Act 1952 and rules, regulations and other orders issued thereunder. He, as an employer, shall be liable to pay employer's contribution/deductions towards PF under the PF Act in respect of all labour employed by him, for the execution of the contract in accordance with the provisions of the

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Electronics Division
Mysore Road, Bangalore – 560 026.

Employees Provident Funds and Miscellaneous Provisions Act, 1952 as amended from time to time. For this purpose he shall indicate the code number obtained from the Regional Provident Fund Commissioner or he should obtain a code number if he has not and produce the Photostat copy of the challan / receipt of monthly remittance of the contribution made by him to the PF Commissioner. Final payments due to him will be released only on production of a “No due certificate” from the Regional Provident Fund Commissioner wherever applicable. He shall also furnish such returns as are due, under the Act, to be sent to the appropriate authorities through the Principal Employer”.

- 40 The Contractor should get himself registered with the E.S.I. Authorities as an independent Employer, obtain a separate code number and remit the dues in respect of the labour employed by him for the work and produce the Challans / Receipts of remittance of the ESI contributions due under the E.S.I. Act to the Company authorities. He shall also furnish such returns, as are due, under the Act, to be sent to the appropriate authorities through the Principal Employer.
- 40.1 If any action is brought in by P.F. Commissioner/ESI authorities on BHEL for the work done by the Contractor for his labourers regarding PF/ESI amount due, short remittances, non remittances etc., the Contractor shall defend the case on behalf of BHEL and/or reimburse BHEL the expenses so incurred.
- 40.2 If applicable, the Contractor shall apply and obtain license under Contract labour (R&A) Act 1970 and comply with the relevant provisions of this Act in respect of the labour employed by him for executing this contract. The Contractor shall furnish necessary returns to the authority through the Principal Employer.
- 41 If applicable, the Contractor shall insure all his labourers and materials. Any claim by his employees for the damages shall be settled by the contractor even action is against BHEL or to reimburse the legal expenses incurred by BHEL
- 42 Any action brought in by anybody on BHEL regarding patent, right etc., used by contractor in execution of work shall be defended by the contractor and / or reimburse to BHEL the cost of the same.
- 43 Contractor shall produce necessary records, documents, explanation whenever he is called upon to do, by any Government. Agencies like ESI, PF, VIGILANCE etc.,
- 44 TERMS OF PAYMENT :
- a) 56.25% of total contract value will be paid against the supply of materials at site and acceptance on prorata basis.
 - b) 33.75 % of the contract value will be paid on completion of erection on prorata basis.
 - c) Balance 10 % of the contract value will be paid after ;
 - i) satisfactory commissioning and handing over the entire system and

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Electronics Division**

Mysore Road, Bangalore – 560 026.

- ii) On your submitting a Bank Guarantee for a value of 50 % of the Security Deposit towards performance guarantee to the extent required to cover the warrantee period.
- iii) For the works which do not involve supply of materials, erection and commissioning, the terms of payment will be as per discretion of Executive in charge of BHEL.

45 SECURITY DEPOSIT

45.1 The successful tenderer shall deposit the Security deposit before start of the work. The rate of Security deposit will be as below.

Upto Rs. 10 Lakhs	10 %
Above Rs. 10 Lakhs upto Rs. 50 Lakhs	Rs. 1 Lakh + 7.5% of the amount exceeding Rs. 10 Lakhs
Above Rs. 50 Lakhs	Rs. 4 Lakhs + 5 % of the amount exceeding Rs. 50 Lakhs

45.2 Security deposit may be furnished in any one of the following forms

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL
- iii) Local Cheques of scheduled banks, subject to realization.
- iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back)
- v) Bank Guarantee from scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- vi) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/C. BHEL, duly discharged on the back.
- vii) Security Deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of Security Deposit shall be deposited before start of the work and the balance 50% may be recovered from the running bills.
- viii) EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- ix) The Security deposit shall not carry any interest.

NOTE: Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will subject to hypothecation or endorsement on the document in favour of BHEL. However, BHEL will

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Electronics Division
Mysore Road, Bangalore – 560 026.

not be liable or responsible in any matter for the collection of interest or renewal of the documents or in any other matter connected therewith.

46 RUNNING ACCOUNT PAYMENTS

During execution of work, payments of all works in place will be made on the basis of measurements recorded in measurement sheet / book in respect of items executed but no claim on the account will be entertained, if for any reason payments are not so made.

47 The work shall be carried out as per detailed specifications enclosed with the tender. The items for which there is no mention in the drawings, detailed specifications to relevant IS specifications (latest edition) shall be followed.

48 CLEANING OF SITE:

After completion of the work, the contractor shall remove all debris, take away left over construction materials, machine, equipment, temporary offices, stores, work shop etc. and make the area neat and clean. The cost of this work shall be included in the quoted rate.

49 COMPLETION OF WORK AND MEASUREMENT

- a) On completion of the work, the contractor must submit to the Engineer the following documents for passing of works.
- b) A copy of the working drawing showing thereon all addition and alterations in the process of execution and.
- c) The authorised Contractor's representative and a representative of the Employer shall jointly sign a certificate of handing over of any completed work and the date of signature of that certificate will be that the date from which the maintenance period of that unit will be reckoned.

50 MAINTENANCE OF WORKS

The contractor will be responsible for the maintenance of works during the period of execution until the various items are taken over, and for a further period of one year, from the date of taking over.

51 EXTRA ITEMS :

No extra items of work shall be carried out by the contractor other than those authorised to do so in writing by the Engineer. For any such items of work executed as per instructions of Engineer. The rates will be fixed on the basis indicated under clause 50 of BHEL GCC.

52 SUPPLY OF MATERIALS BY CONTRACTOR :

- i) The work is for a completed job including labour and supply of all except those otherwise specified in the bid document.
- ii) All materials supplied by the contractor according to the contract conditions shall be subject to inspection and passing by the Engineer or his representatives from time to time, the contractor shall provide all facilities for such inspection free cost. BHEL officers connected with the contract shall have the power at any time to inspect and examine any stores or materials intended to be used in or on the

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Electronics Division
Mysore Road, Bangalore – 560 026.

work, whether on the site or at any factory or workshop or other place the same are laying and the contractor shall give necessary facilities for such inspection and examination.

- iii) The contractor shall submit necessary Test Certificate / Calibration certificate for the critical items wherever necessary.

53 INTERRUPTION TO WORKS :

- i) In quoting the rates / prices the contractor should take in to account the fact that due to the design or other stipulations at site, or the necessity to follow a particular sequence of overall construction operation, or non – supply of particular drawings, or the connected work or other reasons, interruptions are likely to be encountered in a work of this nature and magnitude. No claims for such interruption will be entertained on any account.
- ii) Extension of time or penalty / liquidated damages as the case may be will be determined as stipulated in clause 7, 9 and 41 of BHEL General Conditions of Contract.

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Scope of Work

1) ERECTION OF CONTROL and BALANCING VALVES:

- a. Cutting of existing chilled waterline after removing insulation at the location of fixing the control and balancing valves as directed by Engineer Incharge. All fittings and flanges used shall be heavy duty 'C' class only conforming to relevant and all fittings shall be MS 'C' class. All incidentals and fittings have to be borne by contractor. All joints in the piping system shall generally be by welding, unless otherwise mentioned or directed at site.
- b. The supply of flanges, bends, reducers, tees etc. shall form part of piping (Not separately identified in schedule of quantities) and shall also include supply of bolts, washers, nuts and suitable asbestos fiber/rubber insertion gaskets(minimum 3 mm thick).
- c. The piping supports to be provided at suitable distance and also suitable structures to be built with channels wherever required for pipe routing.
- d. All the structures, piping supports to be painted with one coat of primer and two coats of smoke grey synthetic enamel paint.
- e. The scaffolding etc. as required for installation, erection and commissioning has to be provided by the contractor. No separate payments will be made for the same.
- f. The assembly of the piping has to be done as per instructions of EIC and care should be taken that the existing or any other equipments/piping is not damaged.
- g. All chilled water piping and fittings shall be pressure tested, flushed and insulated as described under the section "INSULATION".
- h. The vendor has to provide as built drawings after the erection work is completed.

2) PIPING INSULATION:

1. The scope of this section comprises the supply and application of insulation to chilled water piping including flanges, bends, balancing valves, three way control valves etc, using 50mm thickness rigid PUF insulation pipe sections for various pipe sizes with density 37 TO 40 Kg/cu.m .
2. Before applying insulation for chilled water pipings and fittings shall be wire brushed and cleaned to remove dust, dirt, mortar and etc. All MS pipes shall be provided with primer followed by a coat of cold setting adhesive compound. After insulation work aluminium cladding work has to be carried out with Aluminium sheet (26G) and fixing has to be done with self tapping screws. The insulation shall be continuous over the entire run of piping, fittings and valves.

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Mysore Road, Bangalore – 560 026.

ACCEPTABLE MAKES OF MATERIALS

S.N	Material description	Approved makes
1	MS 'C' class pipe(Heavy duty)	TATA/JINDAL
2	Butterfly valves	AUDCO/ADVANCE
3	Ball valves	AUDCO/BDK/LEGRIS
4	Pressure Gauges	H GURU /FIEBIG
5	PUF insulated pipe sections	ARKC, BEARDSELL
6	ISMA/ISMC & structural Steel for pipe supports	TATA/SAIL/VIZAG STEEL
7	Aluminium sheets for cladding	INDAL/JINDAL/HINDALCO

- Note:** 1. The contractors shall use only standard/ISI marked items after approval Engineer-In-charge of BHEL, for items not listed above.
2. Contractors intending to supply of materials other than those makes as listed above shall indicate the MAKES considered in their offers with the catalogues
3. The right to accepting such alternate makes rests with the BHEL.

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Mysore Road, Bangalore – 560 026.**

ANNEXURE: 'B'

GENERAL CONDITIONS OF CONTRACT

It is hereby agreed by me/us that the BHEL General Conditions of Contract including subsequent amendments/ additions/ deletions to clauses if any, and conditions pertaining to the settlement of disputes by Arbitration form an integral part of the tender documents and that the tender submitted by me / us is subject to the aforesaid BHEL General Conditions of Contract which has been read and accepted by me/us.

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ANNEXURE ‘C’

CLAUSE 20 OF GENERAL CONDITIONS OF CONTRACT

LABOUR

The Contractor shall employ labour in sufficient numbers either directly or through sub-contractors to maintain the required date of progress and of quality to ensure workmanship to the degree specified in the contract and to the satisfaction of the Engineer-in-charge. The contractor shall not employ, in connection with the works, any person who has not completed eighteen years of age.

The Contractor shall furnish to the Engineer-in-charge, at the intervals specified by him, a distribution return of the number and description by trades of the work people employed on the works. The Contractor shall also submit on the 4th and 19th of every month to the Engineer-in-charge a true statement showing in respect of the second half of the preceding month and the first half of the current month (i) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (ii) the number of female workers who have been allowed maternity benefits as provided in the Maternity Benefit Act, 1961 or Rules made there under and the amount paid to them.

The Contractor shall pay to labour employed by him, either directly or through sub-contractors, wages not less than fair wages, as defined in the Contractor's Labour Regulations.

The Contractor shall in respect of labour employed by him, either directly or through sub-contractors, comply with or cause to be complied with contractor's labour Regulations in regard to all matters provided therein.

The Contractor shall comply with the provisions of the payment of Wages Act, 1936, Minimum Wages Act, 1948, Workmen's Compensation Act 1923, Industrial Disputes Act, 1947, Maternity Benefit Act 1961, or any modifications thereof or any other law relating there to and rules made thereunder from time to time.

The Contractor shall be liable to pay his contribution and the employees' contribution of the State Insurance Scheme in respect of all labour employed by him for the execution of the contract, in accordance with the provision of "The Employees' State Insurance Act, 1948," as amended from time to time. The Contractor shall apply to the ESI Authorities, get himself registered with them and obtain a code Number. He shall pay the remittances under his Code Number only.

The Contractor shall be liable to his contribution and the employees contribution towards PF as per Provident Fund Rules and Regulations, in respect of all labour employed by him for the execution of the contract. The Contractor shall apply to the PF Authorities, get himself registered and obtain a code number from them. He shall pay the remittances towards PF under his code number only.

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Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

The Engineer-in-charge shall, on a report having been made by an Inspecting Officer as defined in the Contractor's Labour Regulations, have the power to deduct from the moneys due to the contractor any sum required or estimated to be required, for making good the loss suffered by a worker or workers by reason of non fulfillment of the conditions of the contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract of non observance of the said Contractor's Labour Regulations.

The Contractor shall indemnify BHEL against any payment to be made under and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.

In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid contractor's Labour Regulations, as amended from time to time or furnishing any information or submitting or filling any form / Register / Slip under the provisions of these Regulations which is materially incorrect, then, on the report of the Inspecting Officers as defined in the Contractors Labour Regulations, the Contractor shall without prejudice to any other liability pay to BHEL a sum not exceeding Rs. 50/- as liquidated damages for every default, breach, or furnishing, making, submitting, filling materially incorrect statements as may be fixed by the Engineer – In – Charge and in the event of the contractor's default continuing in this respect, the liquidated damages may be enhanced to Rs. 50/- per day for each day of default subject to a maximum percent of the estimated cost of works put to tender. The Contractor shall defend the case by himself any action brought in by such Government Agencies for non-compliance of any Labour Regulations and / or reimburse the expenses incurred by BHEL in this regard.

The Engineer-in-charge shall deduct such amount from bills or security deposit of the Contractor and credit the same to the welfare fund constituted under Regulations. The decisions of the Engineer-in-charge in this respect shall be final and binding.

MODEL RULES FOR LABOUR WELFARE

The Contractor shall, at his own expense, comply with or cause to be complied with Model Rules for Labour Welfare as appended to these conditions or rules framed by Government from time to time, for the protection of health and for making sanitary arrangements for workers employed directly or indirectly on the works. In case the Contractor fails to make arrangements as aforesaid, the Engineer-in-charge shall be entitled to do so and recover the cost thereof from the contractor.

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SAFETY CODE

**RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF
SAFETY OF MEN, EQUIPMENT, MATERIAL AND ENVIRONMENT**

1. Before commencing the work, the contractor is required to submit a “SAFETY PLAN” to the authorised BHEL Official. The ‘Safety Plan’ shall indicate, in detail, the measure that would be taken by the contractor to ensure safety of men, equipment, material and environment during execution of the work. The plan shall take care to satisfy all requirements specified hereunder. The contractor shall submit safety plan along with his offer. During negotiations before placing of work order and during execution of the contract, BHEL shall have right to review and suggest modification in the Safety Plan. The contractor shall abide by BHEL’s decision in this respect.
2. The contractor shall take all necessary safety precautions and arrange for appropriate appliances as per direction of BHEL, or its authorised officials, to prevent loss of human lives, injuries to personnel engaged, and damage to property and environment.
3. The contractor shall provide to its work force and ensure the use of the following personal protective equipment as found necessary and as directed by the authorised BHEL officials:-
 - (i) Safety Helmets conforming to IS – 2925: 1984.
 - (ii) Safety Belts conforming to IS – 3521: 1983.
 - (iii) Safety Shoes conforming to IS – 1989: 1978.
 - (iv) Eye and Face Protection devices conforming to IS – 8520: 1977 and IS – 8940: 1978.
 - (V) Hand and body protection devices conforming to:
 - IS – 2573: 1975
 - IS – 6994: 1973
 - IS – 8807: 1978
 - IS – 8519: 1977.

All tools, tackles, lifting appliances, material handling equipment, scaffolds, cradles, safety nets, ladders, equipment etc. used by the contractor shall be of safe design and construction. These shall be tested and certificate of fitness obtained, before putting them to use and from time to time as instructed by authorised BHEL official who shall have the right to ban the use of any item.

All electrical equipment, connections and wiring for constructions, power, its Distribution and use shall conform to the requirement of Indian Electricity Act and Rules. Only electricians licensed by the appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works. All electrical appliances including portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed.

The Contractor shall not use any hand – lamp energised by electric power with supply voltage of more than 24 Volts. For work in confined spaces, lighting shall be arranged with power source of not more than 24 Volts.

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Mysore Road, Bangalore – 560 026.

The contractor shall adopt all fire safety measures as laid down in the “Code for Fire Safety at Construction sites” issued by the Safety Department of the Construction management (HQ) of BHEL and as per the directions of the authorised BHEL official. A copy of the above referred

“Code of Fire Safety at Construction Sites” shall be made available by BHEL to the contractor for reference, on demand by the contractor, during tendering stage itself.

Where it becomes necessary to provide and/or store Petroleum Products, explosives, chemicals and liquid or gaseous fuel or any other substance that may cause fire or explosion, the contractor shall be responsible for carrying out such provisions and/or storage in accordance with the rules and regulations laid down in the relevant government acts, such as Petroleum Act, Petroleum and Carbides of Calcium Manual of the Chief Controller of Explosives, Govt. of India etc., Prior approval of the authorised BHEL official at the site shall also be taken by the contractor in all such matters.

The contractor shall arrange at his cost (wherever not specified), appropriate illumination at all work spots for safe working when natural daylight may not be adequate for clear visibility.

The contractor shall be held responsible for any violation of statutory regulations local, state or central and BHEL instructions, that may endanger safety of men, equipment, material and environment in his scope of work or another contractor’s or agency’s. Cost of damages if any, to life and property arising out of such violation of statutory regulations and BHEL instructions, shall be borne by the contractor.

In case of a fatal or disabling injury / accident to any person at construction sites due to lapses by the contractor, the victim and/or his/her dependents shall be compensated by the contractor as per statutory requirements. However, if considered necessary, BHEL have the right to impose appropriate financial penalty on the contractor and recover the same from payments due to the contractor for suitably compensating the victim and/or his/her dependents. Before imposing any such penalty, appropriate enquiry shall be held by BHEL giving opportunity to the contractor to present his case.

In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover cost of such damages from payments due to the contractor after holding an appropriate enquiry.

In case of any delay in the completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have right to recover cost of such delay from payments due to the contractor, after notifying the contractor suitably and giving him opportunity to present his case.

If the contractor fails to improve the standards of safety in its operation, to the satisfaction of BHEL, after being given a reasonable opportunity to do so and / or / if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorised BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor, after giving a notice of not less than seven days, indicating the steps that would be taken by BHEL.

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Electronics Division
Mysore Road, Bangalore – 560 026.

The contractor shall submit report of all accidents, fires and property damage, dangerous occurrence to the authorised BHEL official immediately after such occurrence, but in any case not later than twelve hours of the occurrence. Such reports shall be furnished in the manner prescribed by the contractor to the authorised BHEL official from time to time as prescribed.

Before commencing the work, the contractor shall appoint/nominate a responsible officer to supervise implementation of all safety measures and liaison with his counterpart of BHEL.

If the Safety record of the contractor is to the satisfaction of Safety Department of BHEL, issue of an appropriate certificate to recognise the safety performance of the contractor may be considered by BHEL after completion of the job.

CONTRACTOR

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**Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.**

ANNEXURE: 'D'

CLAUSE 38 OF BHEL GENERAL CONDITIONS OF CONTRACT

INSURANCE OF WORKS AGAINST DAMAGE AND LOSS DUE TO FIRE, STRIKE, TEMPEST, FLOODS, EARTHQUAKE, RIOT AND AGAINST DAMAGE BY AIRCRAFT

The contractor shall, within one month after the date of acceptance of the contract, insure the work against loss and damage by fire, tempest, floods, earthquake, riots, strike and against damage by aircraft with an insurance office approved by the accepting officer, from the date of acceptance of work or actual commencement of work whichever is earlier. Such insurance shall be effected in the name of BHEL and shall be for the full value of the contract sum. The contractor shall lodge with BHEL the policies and receipts of the premiums for such insurance and shall maintain such policies in force until the entire completion of the work as certified by the Engineer – In - Charge.

If the contractor fails to comply with the terms of this condition, the accepting officer may insure the work and may deduct the amount of premiums from any money that may become payable to the contractor or may at his discretion refuse payment of any advance/payment to the contractor until the contractor shall have complied with the terms of this condition.

Such insurance whether effected by the Accepting officer or the Contractor shall not be a limit or bar to the liability and obligation of the contractor to complete the entire work in all respects as certified by the Engineer – In – Charge.

In case of such a loss or damage as aforesaid, the money payable under any such insurance shall be received and may be retained by BHEL until the work is finally completed and shall then be credited to the contractor in the final statement of accounts in the event of the contract not having been previously cancelled under these conditions, after taking into account the delay in completion, settlement to his workers for damages, damage to BHEL's Property etc.

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Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

ANNEXURE 'E'

CLAUSE 58 OF GENERAL CONDITIONS OF CONTRACT

ARBITRATION:

Except where otherwise provided for in the contract, all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Executive Director/General Manager of BHEL and if the Executive Director/General Manager is unable or unwilling to act to the sole arbitration, some other person appointed by the Executive Director/General Manager, willing to act as such Arbitrator. There will be no objection if the arbitrator so appointed is an employee of BHEL-EDN or an employee of any other unit of BHEL and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference. The Arbitration to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such Executive Director/General Manager as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as Arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. It is also a term of this contract that no person other than a person appointed by such Executive Director/General Manager or an employee appointed as Arbitrator as aforesaid should act as Arbitrator and the Arbitrator shall give reasons for the award.

Subject as aforesaid the provision of the Arbitration Act, 1940 or any statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause.

It is a term of the contract that the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under this clause, together with the amount or amounts claimed in respect of each such dispute.

The arbitrator (s) may from time to time with consent of the parties extend the time, for making and publishing the award.

The work under the contract shall, if reasonably possible, continue during the arbitration proceedings and no payment due or payable to the contractor shall be withheld on account of such proceedings.

The arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing. The arbitrator shall give a separate speaking award in respect of each dispute or difference referred to him.

The venue of arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

CONTRACTOR

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Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

Annexure - F

BHARAT HEAVY ELECTRICALS LIMITED
ELECTRONICS DIVISION
&
ELECTRONICS SYSTEMS DIVISION
BANGALORE

HEALTH, SAFETY & ENVIRONMENTAL POLICY

The Management is committed to be an environmentally sound company in its activities, products, services and to provide safe and healthy working environment covering its employees, products & services as an integral part of business performance through :

- ★ Compliance with applicable Legislation and Regulations
- ★ Setting objectives and targets to eliminate / control / minimise environmental pollution, risks due to Occupational Health and Safety Hazards
- ★ Promotion of activities for conservation of resources by environmental management with focus on oil, electrical energy and chemicals
- ★ Enhancement of Environmental, Safety and Occupational Health awareness amongst employees, customers, suppliers, contractors by pro-active communication
- ★ Regular evaluation and pro-active measures for prevention & control of environmental pollution/accidents / occupational diseases
- ★ Appropriate training of employees and interested parties on Health, Safety & Environmental (HSE) aspects
- ★ Formulation and maintenance of HSE Management Programs for continual improvement
- ★ Periodic review & audit of HSE Management System to ensure its continuing suitability, adequacy and effectiveness
- ★ Communication of HSE Policy to all employees and interested parties
- ★ Co-operation with concerned agencies / regulatory bodies engaged in HSE activities.

Sd.
EXECUTIVE DIRECTOR
BHEL (EDN) BANGALORE

CONTRACTOR

ISSUING OFFICER



**Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.**

FORM OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

In CONSIDERATION of the Bharat Heavy Electricals Limited, Electronics Division, Mysore road, Bangalore – 26, (herein after called the company) having its Registered office (BHEL House, Siri Port, New Delhi – 110 049), having agreed to exempt M/s.....a proprietary concern/a partnership firm registered under the partnership ACT 1936, A Limited Company incorporated under the companies Act 1956, having its place of business at(hereinafter called the 'contractor' from furnishing Earnest Money Deposit in cash as specified in the Tender Notice No..... dated.....for the work of ----- (hereinafter called 'the said tender') on production of a Bank Guarantee for Rs._____only) . We _____ Bank (here in after referred to as the Bank/Guarantor) do hereby undertake to pay to the Company an amount not exceeding Rs._____ against any loss or damage caused to or suffered or would be caused to or suffered to by the company by reason of any breach or default or non compliance by the said Contractor (s) of any of the terms and conditions contained in the said Tender.

2. We, the _____ Bank do hereby undertake to pay to the Company on demand, without any demur, the amounts claimed is due by way or loss or damage caused to or suffered by the Company by reason of any breach or default or non-compliance by the said contractor(s) of any of the terms and conditions contained in the said Tender or by reasons of the Contractor's failure to perform the said Tender. Any such demand made on the Bank shall be conclusive and binding on the Bank as regards the amount due and guarantee shall be restricted to an amount not exceeding Rs.....(Rupees..... only). The decision of the company as to whether a default has been committed or not by the said contractor is final and binding on the bank.

Note: Amount to be indicated both in figures and words.

CONTRACTOR

ISSUING OFFICER



Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

3. We.....Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the finalization of the Tender, acceptance of the same by the company and commencement of the work by the contractor, as specified by the company or till the company certifies that the terms and conditions of the said tender have been fully properly carried out by the said contractor and accordingly discharge the guarantee. Unless a demand or claim under this guarantee is made on us in writing on/or before We shall be discharged all liability under this guarantee thereafter.

4. We..... Bank further agree that the Company shall have the fullest liberty, without our consent and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said tender or to extend the time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the power exercisable by the company against the said contractor and to forebear of enforce any of the terms our liability by reason of any such variation , or extension being granted to the said contractor (s).

5. We Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

Dated this day of Two thousand
..... For Bank.

GUARANTOR

WITNESS WITH ADDRESS :

- 1.

- 2.

Note: Indicate here date of expiry of four months from the date of opening of the tender.

CONTRACTOR

ISSUING OFFICER



**Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 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:	<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"/>

Bank Name:	<input type="text"/>
Bank Address:	<input type="text"/>
	<input type="text"/>
	<input type="text"/>

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

I hereby certify that the particulars given above are true, correct and complete and Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments the designated bank account. 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. This authority remains in full force until BHEL,EDN Bangalore receives

written notification requesting a change or cancellation.

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:
Company Seal

Telephone NO. with STD
Code

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, Electronics Division,
Mysore Road, Bangalore -26.

CONTRACTOR

ISSUING OFFICER



Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.

PART-II

PRICE BID

(To be furnished by the Bidder)

Name of work: Upgradation of AHU chilled water system for PV area.

Tender Ref : BHEL/EDN/FS/AML/PS-69/EC/13 dt:28.05.2013

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Bharat Heavy Electricals Limited
Electronics Division
Mysore Road, Bangalore – 560 026.
BILL OF QUANTITIES

No.	Description	Unit	Qty	Rate(Rs)	Amount	K-VAT/WCT	Service Tax	Total Amount(Rs)
1	Supply, Installation and fixing of Three way control valve with actuator linkages and thermostat to the piping with necessary welding of flanges, gaskets, Nuts and bolts along with insulation for following sizes. The fixing includes cutting the existing line and welding the flanges and assembling the valve at that location. The valve should be of PN16 rating and of Johnson/Honeywell Make.							
a	80 MM / 3.0"	Nos	2					
b	65 MM / 2.5"	Nos	2					
2	Supply, Installation and fixing of Two way Balancing valve to the piping with necessary welding of flanges, gaskets, Nuts and bolts along with insulation for following sizes. The fixing includes cutting the existing line and welding the flanges and assembling the valve at that location. The valve should be of PN16 rating and of Audco/Advance Make.							
a	80 MM / 3.0"	Nos	2					
b	65 MM / 2.5"	Nos	2					
TOTAL (IN WORDS) :								
.....								

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