



NOTICE INVITING TENDERS

1	Tender Reference	BHEL/ESD/FS/AMC/AC/15-16 dtd. 28.10.2015
2	Name of the work	Operation and Comprehensive Annual Maintenance Contract for Air-conditioning Plants at BHEL/ESD, Electronics city
3	Period of contract	24 Months
4	Earnest Money Deposit (To be submitted along with technical bid)	Rs.1,00,000/-
6	Last Date & Time for the receipt of Completed Tender	18.11.2015 1:00 PM
7	Date & Time for Tender Opening (Technical Bid)	18.11.2015 1:30 PM
8	Place of submission of completed Tender	Tender Box marked “Wednesday” kept at the reception of BHEL-ESD, Electronics City,Bangalore-100

This tender document contains 32 pages including the following.

I. Technical cum commercial Bid : Pages from 4- 31 (part-I)

- Information part (Page No. 4)
- Essential Criteria for Techno – Commercial Acceptance of Bid (Page No. 5 - 7)
- Questionnaire to be filled by tenderer(Page No. 8)
- Instructions to tenderers,BHEL-GCC extracts,HSE policy (Page No. 9 – 25)
- Scope of Work and general conditions(Page No. 26 – 31)

II. Price Bid: Page 32 (part-II)-To be submitted in separate envelope

Note:

- The tenderer shall read the tender documents carefully and fill all the columns neatly. Incomplete tenders will be rejected.
- The tenderer shall return the duly filled in tender document after affixing signature on all pages.
- Prices has to be quoted items wise separately as per price bid format page No. 32 only.
- The rights to award contract either in whole or part rests with BHEL.
- Part – 1 to be filled and submitted without leaving blank.
- The Tenderers shall ensure the following

- Put “Technical cum Commercial bid (Part – I)” and “Instructions to Tenderers” together in one envelope**



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

- b) Put “Price bid (Part – II)” separately in a second envelope.
- c) Both these envelopes shall be separately sealed and submitted by putting together in another sealed envelope
- d) All the sealed envelopes shall be properly identified with necessary information such as
- 1) Tender reference
 - 2) Name of tender as “ Offer for Operation and Comprehensive AMC for Air-conditioning plants at BHEL-ESD, Electronics City
 - 3) Whether Technical cum Commercial bid or Price bid on the both the envelopes
 - 4) Date of tender opening



PART - I
TECHNICAL-CUM-COMMERCIAL BIDS
(To be furnished by the bidder)

Name of work : Operation and Comprehensive Annual Maintenance contract Air-Conditioning plants at BHEL/ESD, Electronics city

Tender Ref : BHEL/ESD/FS/AMC/AC/15-16 Dtd. 28.10.2015

A) Information Part :

SN	Particulars	To be filled by bidder
1.0	Name of the Contractor	
2.0	Address (Office)	
3.0	Address (Residence)	
4.0	Telephone No	
	Office	
	Residence	
	Mobile No.	
5.0	Email id.	
6.0	Technical Staff Details (Qualification and experience.Use separate sheet if required)	
7.0	Working Staff Details (Use separate sheet if required)	
8.0	Plant & equipment details (Use separate sheet if required)	



B) Essential Criteria for Techno – Commercial Acceptance of Bid

Fill all the columns where details are asked. Do not leave any blank column. In the column to be filled by the bidder, write Not Applicable(N.A) if the detail asked is not relevant or Strike out whichever is not applicable

SN	Particulars	To Be filled by bidder
1.0	<p>Details of the enclosed performance report for having successfully completed similar works during immediate last 7 years as mentioned below:</p> <p>(Similar work means Operation and comprehensive AMC for Air-conditioning plants)</p> <p>One work not less than 34.4 lakhs or Two works not less than 21.5 lakhs or Three works of not less than 17.2 lakhs</p> <p>Note : Copy of performance report (<u>With contract reference and value, period of contract etc</u> , issued from the organization where the work was executed). Submission of copy of work order is NOT adequate</p>	
2.0	Average Turn Over of the last three years (should not be less than 13 Lacs)	
2.1	Turn Over of previous financial year(2014-15) (Copy of balance sheet and profit and loss account are to be submitted and are to be attested by Chartered Accountant)	Rs.
2.2.	Turn over of the year before previous financial year(2013-14) (Copy of balance sheet and profit and loss account are to be submitted and are to be attested by Chartered Accountant)	Rs.
2.3	Turn over of two years before previous financial year(2012-13) (Copy of balance sheet and profit and loss account are to be submitted and are to be attested by Chartered Accountant)	Rs.
3.0	Solvency Certificate : not less than Rs.4 lakhs/- Certificate from the Bank <u>not older than one year is to be furnished</u>	Furnished / Not Furnished



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

4.0	Is the firm registered as per ESI act	Yes/ No
	If yes to 4.0 indicate ESI Registration No.(Copies of registration certificate and latest monthly contribution receipt are to be enclosed)	
	Copies of registration certificate and latest monthly Contribution paid receipt for ESI enclosed or not	Enclosed/Not Enclosed/N.A.
	If Not registered as per ESI , please indicate the reason	
5.0	Is the firm registered as per PF act	Yes/ No
	If yes indicate PF Registration No.(Copies of registration certificate and latest monthly contribution receipt is to be enclosed)	
	Whether copies of latest monthly contribution paid receipt for PF enclosed or not	Enclosed/Not Enclosed/N.A.
	If Not registered as per PF act , please indicate the reason	
6.0	Security Deposit Clause(No.57 in the Instructions to tenderers) as per NIT	Acceptable/ Not Acceptable
7.0	Whether the tenderer has understood the scope of work as mentioned in NIT, and agrees to execute the work as per scope	Yes / No
8.0	Whether the copy of labour license enclosed or not	Enclosed/ Not Enclosed
9.0	Whether the contractor agrees to pay wages and allowances as per BHEL-EDN notified rates and statutory rules , as per instruction to the tenderers	Yes/No
10.0	Payment terms as per Sl.No 6 page no 30	Acceptable / Not Acceptable



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

11.0	On award of the contract, the contractor should pay wages to personnel deployed at BHEL-ESD on or before 7th of every month in the presence of the authorized personnel of BHEL or Through direct bank transfer to employee	Acceptable / Not Acceptable
12.0	The payment of ESI and PF contributions as per the extant rules for the full contract period will be the sole responsibility of the contractor	Acceptable / Not Acceptable
13.0	Whether the tenderer has agreed to submit EMD of Rs.1,00,000/- and has submitted the same along with Technical bid.(If not enclosed the tender will not be considered)	Submitted/Not Submitted
14.0	Whether the tenderer has agreed to submit security deposit immediately after receipt of the work order as mentioned in the tender document.	Agreed/Not Agreed
15.0	Whether the copy of PAN card enclosed or not	Enclosed/ Not Enclosed
16.0	List of normal spares for preventive maintenance	Enclosed/ Not Enclosed
17.0	Whether the tenderer has enclosed the list of technical personnel who will be in charge for this work. with details of their qualification and experience	Yes/No
18.0	Whether the tenderer agrees to comply with all safety standards as mentioned in the tender specification.	Yes/No
19.0	Whether the tenderer has provided details of the address of their local office in Bangalore along with contact numbers	Yes/No
20.0	Whether the tenderer has enclosed the copy of Power of Attorney (If applicable).	Yes/No/NA
21.0	Whether the tenderer has taken up similar works in BHEL before	Yes/No
	If Yes to 21.0 , Has the tenderer left the work unfinished and pending for more than 6 months	Yes/No/N.A
	If Yes to 21.0,any bill held up with BHEL for more than 6 months after completion of work, due to default in statutory payments by the tenderer.	Yes/No/N.A.

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



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

C) : Other Conditions:

1.0	Form of EMD furnished (cheque is not acceptable)	Cash /DD/ Pay Order
2.0	Cash (receipt No. and Date)	
2.1	DD Particulars	
3.0	General Conditions of Contract & NIT	Acceptable/Not Acceptable

Questionnaire to be answered by tenderer by ticking in the suitable boxes.

SL.No	Description	Strike off whichever not applicable
01	Whether the tenderer has enclosed the certificate to establish that the tenderer is an independent contractor working on his own work.	Yes/No
02	Whether the contractor agrees for Reverse Auction instead of opening of price bid, in case BHEL decides to go for Reverse Auction after technical bid evaluation	Agreed/Not Agreed



INSTRUCTIONS TO TENDERERS

Name of work: Operation and Comprehensive Annual Maintenance Contract for Air-Conditioning plants at BHEL – ESD ,Electronics City, Hosur Road, Bangalore – 560 100

1. Sealed Tenders for the above noted works are hereby invited from Contractors experienced in works of similar kind and magnitude.
2. Tenders should be addressed to **AGM(FS), BHEL-ESD**, Hosur Road Bangalore – 560 100. **The full name and address of the tenderer, name of the work and the date of opening should be indicated on the cover.**
3. **The offer shall be submitted in two parts**
 - a) **Technical and Commercial Bid**
 - b) **Price Bid**

The technical & commercial bid should not include prices.

The technical bid shall cover all the technical details like

- I. The Experience of the contractor – The tenderer should have experience in similar works
- II. The list of technical personnel in their organization with their qualification & experience in the field.
- III. The infrastructure available with them.
- IV. The certificates received from the Government / Reputed organizations for having taken up similar work of equivalent value.
- V. The list of clients with their addresses, contact persons.
- VI. The list of works being done at present with the details of Contact persons and addresses.
- VII. **The EMD in the form of DD drawn in favour of “Bharat Heavy Electricals Limited, Electronics Division” (EMD shall be enclosed along with Technical Bid only.)**
- VIII. The details of the tenderer’s office in Bangalore (within 50 Kms radius of BHEL) with the full address, Phone No., FAX No, Mobile No. The offer of the tenderers who do not have local office will be considered only on the basis of their commitment to establish office with telephone facility in Bangalore. This has to be done within 2 weeks from the date of opening of price bid. Otherwise their offer will be rejected.
- IX. Prices shall be quoted in the price bid format enclosed and is to be put in a separate sealed cover



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

4. The contractor shall comply with all statutory regulations like ESI, PF Contract Labour License (if applicable), Minimum Wages Act etc.,
5. The rate quoted shall include the wages payable to the employees, Statutory Charges like ESI, PF, Bonus, Holiday & EL wages, Taxes, Cost of Uniform & Safety appliances etc.,
6. The contractor shall issue necessary Uniform, Safety appliances like Safety Shoes, Gum Boots, Acid & Alkali Proof Hand Gloves, Masks etc. to their workers for safe operation.
7. The contractor shall maintain all the records w.r.t. ESI, PF, Wages & Attendance.
8. **Please note that if the absenteeism exceeds more than 10 % continuously for 3 months, the contract will be terminated with one month advance notice.**
9. The tenderer shall fill up the questionnaire enclosed along with Technical Bid.
10. 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..
11. 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.
12. 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.
13. 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'). The tenderers shall fill amount of each item and the total on each sheet as also the grand total amount of the whole contract.
14. In case the rate quoted in figures differs from those quoted in words, the lower of the rates will be taken as the tendered rate and shall be binding on the tenderers.
15. 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.



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

16. 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 have come into effect after tender, or on any other ground, will be entertained on any account.
17. (a) **The rates quoted in the tender shall remain valid for a period of 'THREE MONTHS' from the date of opening of tender.**
(b) Tenderers 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.
18. 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 tenderers responsibility to provide any item which is not specially mentioned in the specification or drawing, but which is necessary to complete the work. (P.M / Break down work / any test requirement.
19. 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.
20. 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
21. 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.
22. In case, the date of tender opening falls on Holiday, the tender will be opened on the next working day.
23. 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 finalization of the award of work. In the case of successful tenderer,



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

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.

24. The Earnest Money Deposit shall be submitted along with Technical bid and may be furnished in any of the following forms:

- (a) Cash**
- (b) Pay Order / Demand Draft**

25. 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.

26. 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 he contract so awarded.

27. 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.

28. 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.

29. The contractors who are not on the approved list of contractors of this organization 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 tenderers capacity to undertake and carryout the work tendered for / similar work satisfactorily.
- iii. A certificate from a Bank of standing or magistrate regarding the tenderers financial position.



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

- 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.
30. 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.
31. 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.
32. The Contractor’s responsibility under this contract shall commence from the date of receipt of the order or acceptance of his tender.
33. 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).
34. 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, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
35. 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.
36. Words imparting the singular number shall be deemed to include the plural number and vice-versa where the context so requires.
37. The General and Special Conditions of Contract are complementary to each other and where they are in conflict, the special condition shall prevail.
38. The expenses for completing the stamping the agreement shall be paid by the contractor.
39. Unless and otherwise stated all tendered work includes supply, erection, testing and commissioning of equipment as agreed to in the contract.
40. After completion of the job, the contractor has to furnish actual drawings of work done in consultation with Engineer-in-charge.
41. Any covering letter and comments of the Contractor should be submitted in duplicate along with the offer.



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

42. The Contractor shall provide all the materials needed for trial run, testing including chemicals, consumables etc which are not covered in the Price Bid.. In quoting their rates, the Contractors are advised to take into account the cost of the above materials.
43. 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.
44. 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 (Annexure 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, scrutinize the same, and when submitting his tender, indicate his acceptance of BHEL GCC in the proforma enclosed at Annexure B.
45. 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.
46. The Contractor shall comply with the provision of **Employees Provident Fund and Miscellaneous Provisions Act 1952** and rules, regulations and other orders issued there under. 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 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".
47. 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.



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

48. 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.
- 48.1 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.
49. If applicable, the Contractor shall insure all his laborers 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
50. 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.
51. Contractor shall produce necessary records, documents, explanation whenever he is called upon to do, by any Government. Agencies like ESI, PF, VIGILANCE etc.,
52. As a welfare measure towards his workers who may be deployed under this contract the Tenderer must consider Rs.30/- per day per person for Transport Allowance and Rs.10/- per day per person towards Attendance Bonus and take it into account for the purpose of Estimate and the quoted rate shall be inclusive of the above incentives as well. Further, the Tenderer can include Washing Allowance @ Rs.75 per month per person payable to his Workers deployed under this contract in the estimation and quote unit rate inclusive of such allowance
53. Contractor shall ensure payment of statutory prescribed minimum wages by paying BHEL EDN notified wages as applicable to his employees deployed in the work from time to time and maintain proper records of their timely disbursement. The notification of BHEL-EDN wages may be obtained by the contractor to be aware / conversant to the same. The periodic revision of this wages shall be noted by the contractor from time to time and the payment to his workers shall at no point of time be less than these minimum rates. For information, the BHEL minimum wage rates in the last 5 biannual periods iare given below to envisage the trend in fluctuations of wages.

BHEL Rates Notified During last 5 biannual periods

Category	Minimum Wages Per Day in Rs.				
	01/10/2012 to 31/03/2013	01/04/2013 to 30/09/2013	01/10/2013 to 31/03/2014	01/04/2014 to 31/03/2015	From 01/04/2015
Skilled	309.12	329.49	340.12	362.03	443.19
HSW	327.71	348.08	358.71	380.62	469.97



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

Note: Minimum rates are revised by BHEL EDN every six months. The tenderer shall note that no claim for enhancement of rates, on the ground that existing notified wages have been increased, or that new statutory levies have come into effect after tender, or on any other ground, will be entertained on any account.

BHEL reserves the right to advise the contractor to afford any further welfare facility in future (over & above the wage rates envisaged and also allowances) on reimbursement basis, for the employees of the contractor to defray their essential expenses.

54. The contractor is required to pay minimum bonus @ 8.33% to the labourers engaged for this work as per provision of bonus act
55. Salary to the contract laborers is to be paid at ESD in the presence of BHEL executive or through direct bank transfer to the employee. The salary is to be paid before 7th day of every calendar month
56. Contractor shall provide the PF no. and temporary ESI cards to his employees within 15 days of issue of work order.

57. SECURITY DEPOSIT

- 57.1 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

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

Cash (as permissible under the Income Tax Act)

Pay Order, Demand Draft in favour of BHEL

Local Cheques of scheduled banks, subject to realization.

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)

Bank Guarantee from scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.

Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

defined in the Companies Act. The FDR should be in the name of the contractor, A/C. BHEL, duly discharged on the back.

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.

EMD of the successful tenderer shall be converted and adjusted against the security deposit.

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-EDN. However, BHEL will 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.

58. BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONIC SYSTEM DIVISION)
HOSUR ROAD BANGALORE – 560 100

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 the settlement of disputes by Arbitration from 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.



BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONIC SUYSTEM DIVISION)
HOSUR ROAD BANGALORE – 560 100

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 of 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 his 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 workpeople employed on the works. The Contractor shall also submit on the 4th and 19th or 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 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 employees employed by him wages not less than minimum wages as defined in the Contractor's Labour Regulations/ Minimum Wages Act.

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 there under 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



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

obtain a code Number. He shall pay the remittances towards PF under his Code Number only.

The Engineer-in-charge shall on a report having been made by an Inspecting Officer as defined in the Contractor's Labor Regulations have the power to 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 for 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 the BHEL against any payment to be made under and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from these sub-contractors.

In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid contractor's Labor Regulations, as amended from time to time or furnishing any information or submitting or filling any from /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 Labor Regulations, the Contractor shall without prejudice to any other liability pay to the BHEL a sum not exceeding Rs. 50/- as 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 Labor 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 labor 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 do so and recover the cost thereof from the contractor.



BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONIC SYSTEM DIVISION)
HOSUR ROAD BANGALORE – 560 100

SAFETY CODE

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

1. Before commencing the work, contractor submit a “SAFETY PLAN” to the authorized 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 contractor BHEL shall have right to review and suggest modification in the Safety Plan. Contractor shall abide by BHEL 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 authorized 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 authorized 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, equipments 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 authorized 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 India 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



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

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 energized 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.

The contractor shall adopt all fire safely 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 directions of the authorized 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 authorized 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 enrage 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



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

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; provide necessary safety devices and equipment or to carry out instructions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorized 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.

The contractor shall submit report of all accidents, fires and property damage, dangerous occurrence to the authorized 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 authorized 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 Safety record of the contractor in execution of the awarded job is to the satisfaction of Safety Department of BHEL, issue of an appropriate certificate to recognize the safety performance of the contractor may be considered by BHEL after completion of the job.



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONIC SYSTEM DIVISION)
HOSUR ROAD BANGALORE – 560 100

ANNEXURE 'A'

CLAUSE 58 OF GENERAL CONDITIONS OF CONTRACT

ARBITRATION:

Except where otherwise provide 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 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 willing to act as such Arbitrator. There will be no unwilling to act to the sole Arbitrator so appointed is an employer of BHEL 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 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 there under and for the time being in force shall apply to the arbitration proceeding under this clause. It is term of the contract that the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator (s) may from 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 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



BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONIC SYSTEM DIVISION)
HOSUR ROAD BANGALORE – 560 100

ANNEXURE: 'B'

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 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 which ever 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 the 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 senior Engineer.

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 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 colligation of the contractor to complete the entire work in all respects as certified by the Senior Engineer.

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 the B.H.E.L. 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. Property etc.,



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

BHARAT HEAVY ELECTRICALS LIMITED
ELECTRONICS SYSTEMS DIVISION
HOSUR ROAD BANGALORE-560100

ANNEXURE: 'C'

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, contractors, Contract labourers, trainees, suppliers, and all interested parties as an integral part of business performance through :

- Compliance with applicable legal and other requirements related to occupational Health, Safety and Environment.
- Setting objectives and targets to eliminate / control / minimize environmental pollution, risks due to Occupational Health and Safety Hazards for preventing injury & ill health and reviewing the objectives and targets to have continual improvement in HSE performance.
- Promotion of activities for conservation of resources by environmental Management with focus on electrical energy and chemicals.
- Communication of HSE Policy to employees, customers, suppliers, contractors and all interested parties and enhancement of Environmental, Occupational Health and Safety Management Systems by pro-active measures.
- Commitment for regular evaluation and pro-active measures for prevention & control of environmental pollution / risks due to incidents & occupational diseases.
- Appropriate training of employees, customers, suppliers, contractors and all interested parties on Health, Safety and Environmental (HSE) aspects.
- Formulation and maintenance of HSE Management programs for continual improvement
- Periodic review & audit of HSE management Systems to ensure its continuing suitability, adequacy and effectiveness.
- Co-operation with concerned agencies / regulatory bodies engaged in HSE activities.

Sd.

R K Tiwari
EXECUTIVE DIRECTOR
BHEL (EDN) , BANGALORE



Scope of work:

To ensure trouble – free uninterrupted and proper functioning of the AC systems and to performing preventive maintenance and breakdown maintenance of the following equipments :

Sl. No.	DESCRIPTION OF THE PLANTS	QTY in Nos
01	a. 110 TR AC Plant Model 30 GTC b. 7.5 HP Air handling units c. 10 HP Air handling units 30 HP Air handling units Refrigeration circuit, cooling water circuit and all connected Electrical and mechanical equipments & accessories etc.	1 1 1 1
02	a. 30 TR Capacity of Air Cooled chiller package Model 30 GTC030 (Carrier Make)	1
03	Split Air Conditioners consists of a. 7.5 TR b. 5.0 TR c. 3.0TR d. 1.5TR e. 2.0TR Refrigeration circuit, cooling water circuit and all connected electrical and mechanical equipment's & accessories etc.	2 1 2 35 1

Equipment's details :

- 1.1 Compressors along with motors and drive systems.
- 1.2 Condensers units along with pumps, piping and motors.
- 1.3 Chiller units along with pumps and motors
- 1.4 Air handling units with fans and motors pre filters, Heaters., Expansion valves, Solenoid valves, strainers plumber blocks bearings condensed water drain pipe and complete ducting etc.
- 1.5 Water circuits along with pressure gauges, temperature gauges / meters. Instruments and safety cut outs.
- 1.6 Refrigeration piping along with valves etc.
- 1.7 All electrical circuit from the main power control panel for the plant including cables, Main control switch Cable lugs, motors, Control, including Thermostats, Humidifier, Heaters of AHU Pressure cut-outs controls and Power line Fuses etc.



1.8 Replacement of following equipment's are not covered under AMC

- a) Compressors for central plants,
- b) Condensers, Air handling units,
- c) Pumps motors
- d) Replacement of, Micro Filters, VEE Filters and HEPA filters.

1.9 Replacement of following equipment's are covered under AMC

- a) Refrigerant gas,
- b) Spares for AHU like Pre Filters, Actuators, bearing, Belt, plumber block repair/rewinding of pumps and motor & pulley.
- c) Rectification of water leakage from the underground chiller water pipe line.
- d) Excavation , Refilling & Cementing of earth work & pipe welding with cladding after welding.
- e) All the spares, consumables and materials required for breakdown works/preventive maintenance works/overhauling of the above equipment's/testing

1.10 Essential normal spares required for Two years for above preventive maintenance to be procured in advance and stored at BHEL premises.

2) THE SERVICING SHALL INCLUDE:-

2.1. The Plants / equipment's are to be maintained at their working capacity and by Carrying out preventive maintenance, for all of the above equipment's accessories once in a quarter. The preventive maintenance works shall be planned in advance and to informed to in-charge

Engineer to take up plant shutdown in order to ensure maximum availability of the plant.

2.2. Attending to breakdown maintenance within 24 hours of call. The breakdown shall be intimated on telephone followed by a FAX message/E mail. However, the telephonic complaint to be registered along with time and date at your end and a number shall be provided.

2.3. The plant should be put back into service, by carrying out repair /replacement of components/spares/accessories and consumables such as Lub oil, Refrigerant gas etc as and when required.

2.4. Water cooled Condenser De-Scaling work has to be Carried out whenever Compressor head pressure goes beyond 240 PSIG in the case of Single condensing unit and 220 PSIG increase of multiple condensing unit.

2.5. Pre- filters, Heaters, Plummer blocks, shaft, runners, drives, of AHU'S shall be replaced whenever defective.

2.6. The following tests shall be conducted for the plants during the contract period and test reports should be submitted immediately after tests.

- a) Efficiency test (Quarterly)
- b) Air Flow test (Quarterly)
- d) Percentage of Fresh Air (Quarterly)



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

- e) Sound level of the plant (Quarterly)
f) Vibration Level (Half yearly)

2.7. After conducting test for sound level and vibration level of the plant, if any variation with respect to standard values will be set right/repair the plant well within the standard limits along with certificate.

2.8. The refrigeration system shall be checked for any leakage of gas and lubrication oil and the same shall be charged / topped up as and when required. The lubrication oil shall be replaced with new oil at least once in a year.

2.9. Particle counts test shall be conducted for SPD area

2.10. RH & Temperature maintaining at Space panel and battery labs.

2.11. Special care and attention be given to ensure that no damage is done to the equipment in terms of :-

- a) Avoiding leakage of refrigeration gas into the atmosphere through regular check up and Prevention
- b) The refrigerant R-22 used for recharging purposes for repair / preventive maintenance works of Air-conditioning / chilled water plants should not exceed more than 5% of the total gas used in the system during the AMC period of one year.
- c) Avoiding spillage of oils on the ground and ground contamination.
- d) Proper disposal of spent oil/wastes as per the company's procedures.
- e) Avoiding noise pollution, by keeping the noise levels within the permitted levels, by way of quarterly checks and remedial measures.
- f) Usage of eco-friendly chemicals/cleaning aspects for de-scaling/coil cleaning etc
- g) Every breakdown/preventive maintenance service shall be followed by necessary Service Report, indicating details of consumables/spares used including labour charges separately.
- h) Compressors for Package units shall be replaced with either Factory reconditioned/ New compressors of same make in case of requirement.
- i) Any removal of insulation, insulation cladding during breakdown / preventive maintenance work as to be replaced immediately.

3) THE OPERATION SHALL INCLUDE:-

3.1 Trained operators / AC mechanics and electricians only shall be deployed for the AC plants operation. Operation has to be carried out by Deployed at least one AC operator and one AC operator cum Electrician per shift of 8 hours. Operation has to be carried 24 Hours a day and 365 days in a year.

3.2 The operator & Electrician has to operate DG set, Air compressors and Electrical panel



3.3 Your operators shall report to duty at our works every day with uniform issued by you at the concerned plants, at the respective shift commencement hours of BHEL. The plant shall not be left unmanned while in operation.

3.4 The operational parameters such as temperatures, humidity and etc shall be monitored continuously and the same shall be entered in the logbook every hour during the operation. The logbook shall be produced to executive in-charge of FS dept and signature obtained every day.

3.5 The operators have to follow the procedures that are displayed in the plant for operation and maintenance of A/C Chiller systems.

3.6 The operators shall be vigilant about the wear and tear in the plant including refrigerant gas leakage, oil etc, which is detrimental to the environment and report the same to the Engineer in-charge immediately besides reporting in the logbook. In order to avoid refrigerant leakage, operator shall, at the beginning and at the end of day's operation check

for gas leakage by (i) Soap solution method and (ii) Looking for oil traces any where in the refrigerant circuit. in case of plants running in 3 shifts, these checks may be performed twice a day.

3.7 It is operator's responsibility to monitor the healthiness of the plant and look for abnormalities like noises, vibrations any wear and tear and report to the Engineer in- charge.

3.8 It is the responsibility of operator's to maintain required parameters of temperatures, Humidity and cleanness level in the conditioned areas and plant room /Equipments. In case of problems with the systems including abnormalities such as vibrations, Noise etc. the same has to be informed to the concerned executive in- charge immediately.

3.9 In general all the plants with its associated systems shall be operated with at most care keeping in mind safety aspects.

3.10 In case of absenteeism, you shall make immediate alternative arrangement without disturbing the existing operators and advance information to be given to Engineer in- charge.

3.11The contractor shall provide duly calibrated sling psychrometer to each operator & Torch / Emergency light to record the parameter of the conditioned area.

4) SPARES AND CONSUMABLES:

All the necessary materials, spares and consumables required for preventive maintenance works/Breakdown maintenance works / Overhauling works / While conducting tests and are to be arranged from your end as when required at no extra cost.

5) TOOLS, TACKLES AND MEASURING INSTRUMENTS:

All the necessary tools, tackles and measuring instruments required during preventive maintenance works/Breakdown maintenance works / Overhauling works / While conducting tests and are to be arranged from your end as when required at no extra cost.



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

6) PAYMENT TERMS:

Payment will be made once in a month after satisfactory completion of the services and submission of following documents

- a) Original Invoice + 2 photo copies
- b) 3 Photocopies of PF & ESI challan
- c) 3 Photocopies of attendance register
- d) 3 Photocopies of monthly wages statement of payment to your employees
- e) 3 Photocopies of ECR(Electronic Challan cum Returns) for ESI and PF

7) GENERAL :

- a) All the statutory requirements as called for by the labour Department, Government of Karnataka, are to be fulfilled in respect of Income Tax, PF,ESI and Safety etc, Your personnel working in BHEL should be Covered under above schemes of your company. You shall furnish the ESI and PF codes.
- b) Your service personnel should take adequate safety precaution and use necessary Safety equipments during repair/servicing works.
- c) Any damage that may be caused to men and assets of our company by your Personnel shall be made good at your cost.
- d) You are requested to abide by security rules to get access to our premises that are in force from time to time.
- e) Returnable materials such as tools , equipments and replacement spares etc brought inside our premises shall be entered at our security gate to enable you to take them back after the completion of works.
- f) All the materials such as spares/consumables etc required for service /maintenance work shall be brought with necessary delivery challan duly endorsed by our security at the material gate and hand over to us.
- g) Your service personnel have to report to the Executive in- charge/Supervisor in- charge immediately after entering into our factory premises and before taking up any service/repair works. The work shall be commenced with the prior permission only.

8) BHEL Shifting Hours and Man power Deployment :

General Shift : 7.30 AM to 4.36 PM (Mon to Fri)
7.30 AM to 12.30 PM (Sat)

First Shift 6.00 AM to 2.00 PM Monday to Sunday
Second Shift 2.00 PM to 10.00 PM
Third Shift 10.00 PM to 6.00 AM

The above timings are subject to change and the change in shift timings, if any, will be intimated to you



Bharat Heavy Electricals Limited
Electronic Systems Division, Hosur Road, Bangalore – 560 100.

The indicative shift wise deployment of operators and supervisor is as following:

Supervisor / Highly Skilled A/C operator - 1 Person/General shift
Skilled Trained A/C operator & A/C cum Electrician - 2 Persons/First and second shift
Skilled Trained A/C operator & A/C cum Electrician - 1 person/night shift

Total No of Operators to be deployed: 6 (taking into consideration 1 weekly off for every operator.)

Total No of Supervisors: 1

Note:

- (1) The above deployment schedule is only indicative and the actual may be changed from time to time based on BHEL requirement.
 - (2) Each person including supervisor will have to be provided one day weekly off and all applicable statutory leaves.
- 9) Any non deployment will be viewed seriously and may lead to cancellation of the contract.
- 10) Contractor shall ensure payment of statutory prescribed minimum wages by paying BHEL EDN notified wages
- 11) The contractor shall provide specified uniforms with safety shoes and suitable badges to all the labourers engaged by them
- 12) The contractor has to provide identity cards with photo for all the labourers/ supervisory staff working in the factory.
- 13) No person below 18 years or above 58 years should be deployed.
- 14) **Penalty for non performance will be charged as below:**

Sr. No.	Breakdown description	Completion period from the day of informing breakdown	Penalty
1	When full system is not available including standby and production requirements are not met.	2 days of reporting breakdown	For Non completion > 2 days; penalty @ 1% of quarterly value of contract for that plant for per day delay of work.
2	When system is available but standby is under breakdown for any reasons or system is not meeting system requirements.	10 days	For Non completion >10 days; penalty @ 1% of quarterly value of contract for that plant for per week delay of work.



Part II

Price Bid for Operation and CAMC for 2 years

A	Equipment Description	Qty in Nos.	Price for 2 years
1	110 TR AC plant model 30 GTC Carrier Make	1	
2	7.5 HP Air handling Unit	1	
3	10 HP Air Handling Unit	1	
4	30 HP Air Handling Unit	1	
5	30 TR Capacity Air Cooled Chiller package Model 30 GTC030(Carrier make)	1	
6	Split AC 7.5 TR	2	
7	Split AC 5.0 TR	1	
8	Split AC 3.0 TR	2	
9	Split AC 2.0 TR	1	
10	Split AC 1.5 TR	35	
	Total Value		
	Service Tax@.....		
	Total Price for Operation and CAMC for 2 years		