



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

Tender Document

For

Supply and Installation of materials for setting up of customer center with Acoustic Wall Paneling and False ceiling proposed inside the factory premises

Date of opening:11-02-2015

This Tender Document Contains total 49 Pages

Part – I

Notice Inviting Tender
Technical cum commercial bid
Instruction to tenderers
Special Conditions of Contract
Technical specification

Part – II Price Bid

Note: Part – I: To be submitted in a separate sealed cover
Part – II: To be submitted in a separate sealed cover
Earnest Money Deposit (EMD) of Rs.1,00,000/- in the form of DD in favour of BHEL-EDN, should be submitted in a separate sealed cover
Part-I, Part – II & EMD sealed covers should be put in outer envelope and super scribing the Name of work and Name & Address of the tenderer.



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

CE-PMC Dept/802

NOTICE INVITING TENDER

01. Tender Number : BHELEDN/PMC/CC/2014-15/01
02. Name of work : Supply and Installation of materials for setting up of customer center with Acoustic Wall Paneling and False ceiling proposed inside the factory premises
03. Completion Time : 45 days
04. Estimated Cost : Rs. 36 lakhs
05. Earnest Money Deposit : Rs. 100000/= (One Lakh only)
06. Last Date & Time for the Receipt of Completed Tender. : 11-02-2015(Wednesday)14.00 Hrs
07. Date & Time for Tender Opening : 11-02-2015(Wednesday)14.30 Hrs
08. Place of submission of Tender : Tender Box marked as “PMC- Customer Center” located in Reception Area of Electronics Division, BHEL Mysore Road, Bangalore – 560 026.

Note:

The tenderer shall return the duly filled in Tender document after affixing Signatures on all pages and submit to:

AGM/ CE- PMC,
Ground Floor, New Engg. Bldg,
BHEL Electronics Division, Mysore Road
Bangalore-560026
Ph: 080-26998614, 26998732
E-mail: mankar@bheledn.co.in ; raviteja@bheledn.co.in

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.

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3. The Tenderer shall ensure and put **“Technical cum Commercial bid (Part – I)” togetherwith “Instructions to Tenderers” in one cover and “Schedule of Work / Price bid (Part –II)” in a separate cover. Both these covers shall be separately sealed and then puttogether 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 opening of the correct document cover only.
4. **EMD shall be attached along with the Technical cum Commercial bid (Part-1) of theoffer. Tenders not complying with this requirement will not be considered.**
5. The Tenderer shall visit the site and understand the scope of work completely before submission of offer

Essential Criteria's:

1. Experience of having successfully completed similar works during last 7 years from the date of tender notice should be either of the following: similar completed works
 - a. Three similar works each costing not less than an amount equal to 40% of estimated value mentioned against each work in tender notice.OR
 - b. Two similar works each costing not less than an amount equal to 50% of estimated value mentioned against each work in tender notice.OR
 - c. One similar works each costing not less than an amount equal to 80% of estimated value mentioned against each work in tender notice.
2. Latest bankers Solvency Certificate from Nationalized/Scheduled bank issued, not earlier than 12 months from the final date of tender submission for value not less than 10% of the estimated cost mentioned in the notice.
3. Average financial turn over during the last 3 years, ending 31st march of the previous financial year, should be 30% of the estimated cost as mentioned against each work in this notice.
4. *Mention the registration details / if registered with BHEL/CPWD/KPWD or any government or public sector organization.*

Special conditions;

- i. Successful bidder should have their business office/Branch office at Bangalore with adequate Administrative/Technical staff.
- ii. The Bidders should carry out a preliminary survey at proposed construction site before submission of offer to ensure the rate quoted for the relevant schedule of items are correct.
- iii. The Bidders should “furnish site inspection certificate”.
- iv. Bidders are required, to study prevailing market trends of construction materials/labours/other relevant requirement before submission of offer and submit competitive price.

Note:*Offers of the tenderers not meeting the above requirements under are liable to be rejected.*



TECHNICAL CUM COMMERCIAL BID

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BHARAT HEAVY ELECTRICALS LIMITED,
ELECTRONICS DIVISION
MYSORE ROAD, BANGALORE-560026

PART-I - TECHNICAL-CUM-COMMERCIAL BID

(Form to be filled & furnished by the Bidders)

1. NAME OF THE WORK : Supply and Installation of materials for setting up of customer center with Acoustic Wall Paneling and False ceiling proposed inside the factory premises
2. APPROXIMATE ESTT. COST Rs.: **Rs. 36 lakhs**
3. STIPULATION PERIOD : **45 days**
4. NAME OF THE CONTRACTOR :
5. ADDRESS
 - a. OFFICE :
 - :
 - E-mail ID :
 - TEL.PH NO :
 - b. RESIDENCE :
 - :
 - TEL.PH NO :
6. STAFF STRENGTH
 - a. TECHNICAL :
 - b. GENERAL :
7. PLANT/ EQUIPMENT :
8. a) SCOPE OF WORK : UNDERSTOOD/ NOT UNDERSTOOD
(asper schedule of items)

b) ACCEPT TO EXECUTE IN TOTAL : YES/ NO

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A) Essential Tender Requirement

S.N.	Particulars	Tender should strike out whichever is not acceptable
i.	EMD - DD Particulars (EMD to be paid by DD) (Cheque is not acceptable)	DD No _____ Date _____
ii.	General Conditions of Contract & NIT	Acceptable/ Not Acceptable
iii.	Completion period as per NIT	Acceptable/ Not Acceptable
iv.	Payment Terms as per NIT	Acceptable/ Not Acceptable
v.	Acceptable Makes of Material as per NIT	Acceptable/ Not Acceptable
vi.	Experience of having successfully completed similar work, as in essential criteria clause 1. Clearly indicate criteria a, b, c in last 7 years	Yes/ No/Details if any
vii.	Banker solvency certificate for value in essential criteria clause 2 submitted. Indicate value.	As per Attached format
viii.	Average financial turn over during the last 3 years, ending 31st march of the previous financial year as per clause 3 of Essential criteria.	Audited Balance Sheet and profit and Loss Account for the last three years. ----- Annual Turnover of last three years duly certified by the auditor.
ix.	Income tax Returns for last Three years.	
x.	Whether Registered with BHEL/KPWD/CPWD/MES/Railways/ other organizations. Specify the name of organization, Indicate reg. no and validity of Registration.	Registered/Not registered/ Organization / validity
xi.	Copy of PAN/GIR No. & Registration certificate issued by Income Tax authority.	Enclosed/not enclosed
xii.	Certificate of TIN Number	Enclosed/not enclosed
xiii.	Service Tax Registration Certificate copy	Enclosed/not enclosed
xiv.	Registration certificate with ESI / PF authority?	Enclosed/not enclosed
xv.	Site Office at Bangalore with Adequate technical and administrative staff.	Acceptable/ Not Acceptable
xvi.	Whether agreeable to make necessary statutory payments as per BHEL EDN terms	Acceptable/ Not Acceptable
xvii.	Electronic Fund Transfer(EFT) form duly filled	Enclosed/not enclosed
xviii.	ACCEPTANCE OF DRAWINGS DESIGNS	Acceptable/ Not Acceptable
xix.	Furnished site inspection certificate as per Annexure-II	Yes/ No
xx.	Availability of technical person	Yes/ No
xxi.	Plant and machinery details for the work.	Enclosed/not enclosed
xxii.	Work on Hand (Required for bid capacity also)	Enclosed/not enclosed
xxiii.	Reverse auction compliance(As per Annexure- I)	Acceptable/ Not Acceptable

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INSTRUCTIONS TO TENDERERS



Bharat Heavy Electricals Limited
ELECTRONICS DIVISION
MYSORE ROAD, BANGALORE - 560026.

INSTRUCTIONS TO TENDERER

1. Sealed Tender for the above noted work is hereby invited from Contractors experienced in works of similar kind and magnitude.
2. Tenders should be addressed to AGM/CE-PMC, NEB Ground Floor, Electronics Division, Bharat Heavy Electricals Limited, Mysore road, Bangalore – 560 026 in three separate sealed cover for “Technical cum Commercial Bid” , EMD and Price Bid duly super-scribed and put in an outer envelope, super scribing the Name of Work and Name and Address of the Tenderer.
 - 2.1 The local address of the Contractors, the name of the person to whom all the correspondence are to be addressed should be indicated, with telephone number (both office and residence) and telephone numbers.
3. All entries in tender documents should be in one ink. Eraser and over writing are not permitted. All cancellation and insertion should be duly signed by tenderer concerned with proper indication of the name designation and address of the person signing.
4. Tenderer's shall fill in all the required particular in the blank space provided for this purpose in the tender documents and also sign in each and every page of the tender document including the drawings attached there to before submitting tender.
5. Unit rate 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 the items shown in the attached schedule. These rates shall be for the finished work at site. The rate shall include all taxes and duties payable an account of Octroi, Sales Tax, tax on work contract etc., etc., and also expenses towards PF and ESI contributions. Amount of each item and 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 differs from those quoted in words,
 - (a) If, in the price structure quoted for goods/ services/ works, there is discrepancy between unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
 - (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.

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7. In quoting rates, the tenderer 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 rate to be quoted by the tenderer shall be firm and shall cover and include all statutory levies such as “Octroi, sales tax, excise duty etc., arising from Act passed by Parliament or 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 rates, on the ground that existing statutory levies have been increased or those new statutory levies have come into effect after tender, or on any other ground, will be entertained on any account.
9.
 - a) The rate quoted in the tender shall remain valid for a period of ‘THREE MONTHS’ from the date of opening tender.
 - b) Tenderer shall not increase their quoted rates, once the tenderer has submitted his quotation and during execution of contract in case his tender is accepted.
10. Quantities shown in the schedule are only approximate and are liable to variation without entitling the Contractors 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 material and labour.** They should be well versed with BHEL General Conditions of Contract instruction to the tenderers, drawing and specification and all other documents which form part of the agreement to be entered into subsequent award of work. The tenderer should be specially note that it is tenderers responsibility to provide any items which is not specifically mentioned in the specifications and 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 only approximate. They are given as a guide for the purpose of tendering only and are liable for variation and alteration at the discretion of the competent authority. The work under each item as executed shall be measured and price at the corresponding rates to be quoted by the Contractor in the bill of quantities attached hereto.
13. Should a tenderer find discrepancies or omission in the drawing 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 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 the 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 firm concerned. In the latter case, a copy of the power of Attorney duly attested by the Gazetted Officer must accompany the tender.
15. If in any case, the date of Tender Opening falls on holiday, the Tender will be opened on the next working day.
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 tenderer after finalization of the award of work. In the case of successful tenderer, the earnest money will be retained as a part of Security Deposit for satisfactory completion of the work in accordance with Clause-16 of BHEL General Conditions of the Contract. Tenders without Earnest Money Deposit receipt are liable to be rejected. No interest will be paid on the earnest money deposit.

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17. Tenderer shall deposit Earnest Money Deposit {EMD} for the value as indicated in NIT along with tender document. The EMD shall be in form of Demand Draft in favour of BHEL EDN, Bangalore – 560026.
18. Unless the contractor whose tender is accepted signs 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 the tender withdrawn.
19. If after opening of tenders a tenderer revokes his tender or increase his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instruction of Engineer –in-charge, the Earnest Money Deposited by him will be forfeited and acceptance of his Tender withdrawn. If only a part of work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be retained will be based on value of the contract so awarded.
20. The BHARATH HEAVY ELECTRICALS LIMITED reserve the right to reject any or all the tenders received or accept any tender or part thereof without assigning reason thereof. In the case of acceptance of a part of tender, the time for completion may also be reduced to the extent considered approximately by the accepting authority.
21. Conditional and Unsigned tenders, tender containing absurd rates and amounts, tenderer 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 tenders should be accomplished 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 the work, value and address.
 - b. The balance work remaining to be done on the same.
23. Tenders submitted by the post should be sent by “Registered Post with acknowledgement due”.
24. These should be posted with due consideration of any delay in postal delivery. Tenders received after the due date of opening tenders are liable to be rejected.
25. The Contractors responsibility under this contract shall commence from date of receipt of the order or acceptance of tender.
26. If tenderer expires after the submission of the tender or acceptance of his tender, the BHEL, may at their discretion cancel such tender. If a partner of a firm expires after the submission the tender, after the acceptance of tender, BHEL may cancel such tenders at their discretion unless the firm retains its character/s.
27. THE BHARATH HEAVY ELECTRICALS LIMITED will not be bound by any power of Attorney granted by the tenderer or changes in the composition firm made subsequent to execution of 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.
28. If the tenderer deliberately gives wrong information on his tender, the BHEL reserves the right to reject such tender at any stage (including contract execution period).

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29. Words imparting the singular number shall also be deemed to include the plural number and vice-versa where the context so require.
30. The General and Special Conditions are complementary to each other and where they are in conflict, the special condition shall prevail.
31. The expenses for completing the stamping agreement shall be paid by the contractor.
32. Unless or otherwise stated above tendered work includes supply, erection, testing and commissioning of equipment as agreed to in the contract.
33. After completing 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. **Cement and steel for carrying out Civil Works and arising out of erection work will be supplied by Contractor.**
36. 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.
37. Should a tenderer or a contractor on the list of approved contractors has a relative or in the case of firm or Company of Contractors any of its shareholders relative is employed in Electronics Division of Bharat Heavy Electricals Limited, Banalore-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 fact subsequently come to light, the relevant provisions of the General Conditions of Contract will apply.
38. 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 (extracts of clauses 20, 38 and 58 of BHEL G.C.C). The Contractor has to obtain, at his cost, a copy of the BHE: GCC, Scrutinize the same, and when submitting his tender, indicate his acceptance of BHEL GCC.
39. 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 to be brought by the tenderer. Suitable power point will be provided and tapping from the power point equipment shall be done using proper size of cables equipment and after getting approval of connections from our Engineer-in charge.
40. The Contractor shall comply with the provision of Employees Provident Fund's 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

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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 Commissioner. Final payments due to him will be released only on production of a “No due certificate” from the Regional Provident Fund Commissioner. He shall also furnish such returns such returns as are due, under the Act, to be sent to the appropriate authorities through the Principal Employer”

41. The Contractor shall apply and obtain license under Contract labour(R&A) Act 1970 and comply 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.
42. Contractor shall insure all his labourers’ and material. Any claim by his Employees for damages shall be settled by the Contractor even if action is against BHEL or to reimburse the legal expenses incurred by BHEL.
43. 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 BHEL the cost of the same.
44. Contractor shall produce necessary records, documents, explanation whenever he is called upon to do by any Government Agencies like ESI, PF, VIGILANCE etc.,
45. Contractor should obtain “*workman compensation policy*” for their employees.
46. **REVERSE AUCTION**
 - BHEL reserves the right to go for reverse auction at any point of time before opening of Price Bid. This will be decided after techno-commercial evaluation.
 - Bids with non-acceptance of reverse auction will be liable for rejection.
 - Opening of Price Bid at discretion of BHEL.
 - BHEL shall be at liberty to cancel the tender at any time, before ordering, without assigning any reason.



BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONICS DIVISION)
MYSORE ROAD, BANGALORE-560 026

GENERAL CONDITIONS OF CONTRACTS/TECHNICAL SPECIFICATIONS

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 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 and BHEL-EDN Technical Specifications for Civil works which has been read and accepted by me/us.

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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 work people 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 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 contractors Labour Regulations.

The Contractor shall in respect of labour employed by him either directly or through sub-Contractors complies with or causes to be complied with contractors labour Regulations in regard to all matters provided therein.

The Contractors 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 Contractors 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 Contractors 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 pay 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.

The Engineer-in -charge shall on a report having been made by an Inspecting Officer as defined in the Contractors 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 him or their wages which are not justified by the terms of the contract of non-observance of the said contractor's Labour Regulations.

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

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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 Contractors fails to make arrangements as aforesaid the engineerin-charge shall be entitled do so and recover the cost thereof from the contractor.

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

1. 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, and strike& against damage by air-craft 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 affected 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 premium 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.

2. 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 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 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 property etc.



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

1. Before commencing the work, contractor has to 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 contract 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
4. All tools, tackles, lifting appliances, material handling equipment scaffolds, cradles, safety nets, ladders, equipment’s 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.
5. All electrical equipment’s, connections and wiring for constructions power, its distribution and use shall conform to the requirement of the 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 energized by electric power with supply voltage of more than 24 volts. For work in confined space lighting shall be arranged with power sources of not more than 24 volts.
6. 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 directions of the authorized BHEL official. A copy of the above referred



“Code of Fire Safety at the 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, Explosives Act, Petroleum and Carbides of Calcium Manual of the Chief Controller of Explosives, Govt. of India. etc., prior approval to the authorized BHEL official at the site shall also be taken by the contractor in all such matters.

7. 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 agencies. 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.
8. In case of a fatal or disabling injury accident to any person at construction sites due to the 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 shall 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.
9. In case of any damage to property by the contractor, BHEL shall have the right to recover cost of such damages from payments from payments due to the contractor after holding an appropriate enquiry.
10. In case of any delay in the completion of a job due to mishaps attributable to lapses buy the contractor; BHEL shall have to recover cost of such delay from payments due to the contractor, after notifying 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 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 BHEL. In addition, the contractor to the authorized BHEL official shall also submit periodic reports on safety from time to time as prescribed.
11. 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 the job.



SPECIAL CONDITIONS OF CONTRACT

1.GENERAL

The special conditions of contract and other contract documents are complimentary to each other and shall be read in conjunction with each other. In case of any conflict of meanings between the special conditions of contract and the BHEL General Conditions of Contract the provisions of the special conditions of contract shall override the corresponding provisions of the BHEL General Conditions of Contract.

2.SCOPE OF WORK

The scope of work includes for the full, final and entire completion of all works as detailed in specifications and drawings, which forms part of this Contract. The scope of work also includes cleaning/removing all debris resulting from the contract as stipulated in the item schedule as per direction of the Engineer-in-charge.

The scope of work under this contract shall cover supply of all materials, labour, tools, and plants etc., unless otherwise specified in the specifications, descriptions of items or in foregoing clauses.

3.SITE CONDITIONS

- a) Before tendering the Contractor shall get himself/themselves acquainted with site conditions. The rates quoted by the contractor shall be deemed to have been quoted after getting acquainted with the prevailing site conditions.
- b) The site of work is as mentioned in the Tender document.

4. SITE FACILITIES: -

4.1. LAND: -

The contractor must maintain the areas allotted to him in a neat and clean conditions as required by the Employer. The contractor shall provide adequate storage and office facilities with approval from the Engineer. The rate quoted by the contractor shall be deemed to include for these and no separate payment will be made towards these.

On completion of work, the site shall be cleaned by the contractor of all materials, temporary debris, rubbish plants and equipment's, belonging to the contractor at no extra cost. The site and surroundings shall be handed over in neat and clean conditions. In case of any failure by the contractor, the employer will get inside cleared at risk and cost of the Contractor

4.2. POWER AND WATER SUPPLY

Subject to availability water and electricity for the work may be provided by BHEL at one point and the contractor will have to make further arrangements for utilizing the supply from other points if required cost there of shall be recovered from the contractors from the bills due to them at the prevailing cost rates worked out by BHEL. BHEL is not responsible for any failure of water/electricity supply and the contractor will have to make his own arrangements for the same, without claiming any extra rate.

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4.3. MACHINERY

The Contractor shall at his own expense, supply all tools, plant and equipment (hereinafter referred to as T & P) required for execution of contract, as specified in the tender documents. No. P.O.L. can be supplied by the Employer.

- 5.a) The whole of the works shall be executed in perfect conformity with the specifications and drawings. If contractor perform any works in a manner contrary to the specifications and drawings and without reference to the Engineer he shall bear all the costs arising or ensuring there from.
- b) All technical documents regarding the construction of works are given in the metric system and work should be carried out according to metric system.
- c) The work shall be carried out as per detailed drawings supplied by the employer. Only two copies of the working drawings shall be supplied progressively to the contractor free of cost. The contractor shall keep one set of drawings fully cloth back at his own expenses always available at site for reference of Engineer-in-charge and other representatives.
In case the contractor desires to obtain additional copies of drawings, the same shall be supplied by the Employer on payment of charges as fixed by the Engineer-in-charge.
- d) The works shall be carried out as per detailed specifications enclosed with the tender. For items for which there is no mention in the drawings, detailed specification relevant IS specification (latest edition) shall be followed.
- e) The contractor shall submit to the Employer for their approval complete drawings, of all temporary works and staging which he may require for carrying out the works shown in the drawings. He shall at the same time if so required by the Employer submit his calculations relating to strength and anticipated deflection in respect of any aforesaid temporary works. He shall also submit for the approval of Employer drawings showing the methods he proposes to adopt for the erection of the various parts of the temporary works. Any modification to the drawings that may be required by the Employer shall be made by the contractor at his own cost. However, not with-standing the approval of modification required for temporary works, the contractor shall be fully responsible for their efficiency, security and maintenance and for all obligations and risks in regard to such works, specified or implied in this contract and be shall reinstate the same at his own cost, should any mishap or accident occur causing damage or injury there from, subject however, to such clauses of the General conditions as may be applicable in such cases

6.BENCH MARKS AND REFERENCE POINTS

The contractor shall construct and maintain proper benchmarks and reference points of the inter section of all main walls, no separate payment shall be made for this and rates quoted deemed to include this cost.

7.SAFETY PRECAUTIONS

The contractor shall at times observe the safety code enclosed and make necessary action as required in the tender. In default thereof, the employer may get this done departmentally or through other agencies and recover the cost from the contractor. The Contractors shall also abide by all the security regulations promulgated from time to time by employer.

8.RATES

The rates to be quoted are intended to provide for works duly and properly completed in accorded with the general and special conditions of contract and specifications and drawings together with such alteration and or conditions as may be required / ordered without prejudice to the generality thereof shall include for detail of construction which are obviously and fairly intended and which may not have been specifically referred in these documents and working



drawings and but are essential for execution and satisfactory completion of work including those of minor nature and shall be deemed to include and cover internal the followings.

- a. The cost of all superintendence and labour materials, tools, plants, equipment's, mobilizing and demobilizing equipment fuel lubricants, fixture, transport charges, temporary and permanent works and quarrying charges, testing, screening, washing, handling of materials, stacking and removal charges, of any rejected materials and water and power arrangements and satisfactory maintenance of the same satisfactory completion of the work intended.
- b. All fees, duties, royalties, rent and compensation to owner for surface damage or taxes And impositions payable to local authorities, in respect of land an structure, for all materials supplied for the work or any other duties/expenses for which the contractor may become liable or may be put to under any provision of the law for the purpose of in connection with the execution of the contract including revise payable on the transactions.
- c. Watching and lighting arrangements as required for satisfactory performances.
- d. Settings out of works profiles etc., and of construction repair and up-keep of all center lines, bench marks and levels and page there of including provisions of masonry/concrete pillars showing the center line of structure/gridlines and levels and maintenance and protection of the some including providing fencing etc., throughout the period of contract.
- e. Breaking, maintenance and removal of temporary works and buildings. Supply of complete, Moulds, cost of testing of materials etc.
Unless otherwise specified in the specification schedule cost of all loads.
- f. All materials and labour required for fencing in a protection against risk of accidents and for providing necessary/planking strutting with hand rails, gumboots, helmets, safety belts etc., during the progress of work.
- g. All prevention on compensation for tress passes of barrier arrangements for the safety of the public or employees during the provision of works.
- h. Works in all shapes inclined or curved and all sizes as shown or as are required.
- i. Cleaning the site after the completion of work of all debris, left out construction materials, machine equipment's, temporary offices, stores, work shop etc., including micro dressing the area in neat and clean shape.
- j. Such other incidental charges or contingencies as may have been provided for in the specifications.

9.LABOUR COLONIES: -

No labour camps will under any circumstances be permitted within the premises.

10.ESCALATION: -

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, the rates shall further be deemed to include statutory levies arising from such Acts, Central or State, which may come in to 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 those new statutory levies have come in to effect after tender, or on any other ground, will be entertained on any account.

11.LEAD, LIFT, DEWATERING ETC.,

Unless otherwise specified in the tender schedule, the rates for all items will be deemed to include all leads, lifts and descents involved in the work.



No separate payment will be made for dewatering (including seepage, surface drainage and monsoon water) dislodging and allied operations at any stage of the work, and the cost of such operations will be deemed to be included in the contract rates

No separate payment will be made for curing including pumping of curing water where necessary.

12. EXTRA ITEMS

No extra items of work shall be carried out by the contractor other than those authorized 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.

The schedule of rates to be followed in this case will be CPWD schedule of rates.

13. Quantity

The probable quantities of the several items of work are furnished in the schedule of quantities. It must be clearly understood that neither the probable quantities nor the value of individual items nor the aggregate value of the entire work shall be binding on the Employer/Engineer does not in any way assure the contractor or Guarantee that the said probable quantities are correct or that the work will correspond to these. The Employer/Engineer reserve the right to omit, vary or add to the item/work described in the schedule, of quantities and no claim for compensation will be entertaining on this account.

14. Variation/Deviation in quantities

The contractor shall not make any alteration in addition to or omission from the work as described in the tender document except in pursuance of the written instructions of the Engineer-in-charge. No such deviation from the work described in the tender documents shall be valid unless the same has been specifically confirmed and accepted by the accepting officer in writing and incorporated in the contract.

The rates quoted are firm for deviation subject to minimum of (-) 20% and maximum (+) 20% of the total value of work awarded. Deviation beyond the above limits is subject to the standard terms and conditions of BHEL.

15. Materials

(a) Supply by Employer:

Unless otherwise specified, BHEL will not supply any materials.

16. Supply of Cements and Steel is to be made by contractor, required for carrying out the contract.

17. SUPPLY BY CONTRACTOR

- (i) The work is for a completed job including labour and supply of all materials 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-in-charge or his representatives from time to time, the contractor providing all facilities for such instruction free of 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 work, whether on the site or at any factory or workshop or other place where such stores or



- materials are being fabricated or manufactured or at any place the same are lying and the contractor shall give necessary facilities for such inspection and examination.
- (iii) The Engineer-in-charge shall be entitled to have tests made of any stores or materials supplied by the contractor shall provide at his own expense all facilities which the Engineer-in-charge may require for this purpose. If at the discretion of the Engineer-in-charge an independent expert is employed to make any such tests his charges shall be borne by the contractor only if the tests disclosed that the said stores or materials are not in accordance with the provision of the contract.
- (iv) Should the Engineer-in-charge/Civil Engineer consider as any time during the construction or reconstruction on prior to the expiry of the Maintenance Period that the stores or materials provided by the contractor are unsound or of quality inferior to that contracted for, or otherwise not in accordance with the contract (in respect where the decision of the Engineer-in-charge/Civil Engineer shall be final and conclusive) the contractor shall on demand, in writing from the Engineer-in-charge/Civil Engineer specifying the stores and materials complained of, notwithstanding that the same may have been inadvertently passed, certified that and paid forth with remove the stores or materials so specified and provide other and suitable stores or materials at his own expense, to the entire satisfaction of the Engineer-in-charge/Civil Engineer and in the event of his failing to do so within a period to be specified by the Engineer-in-charge/Civil Engineer in his demand aforesaid, the Engineer-in-charge/Civil Engineer may replace within the other stores or materials complained of at the risk and expense in all respect of the contractor. The liability of the contractor under this conditions, shall not extended beyond the maintenance period aforesaid except as regards stores or materials which the Engineer-in-charge/Civil Engineer shall have previously given notice to the contractor to replace (Maintenance, period for any work under this organization will be six months from the date of actual completion of the particular work and handing over to BHEL).

18. INTERRUPTION TO THE WORKS: -

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 interruptions will be entertained on any account.

EXTENSION OF TIME OR PENALTY/LIQUIDATED DAMAGES

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.

19. COMPLETION OF WORK AND MEASUREMENT

- a. All work shall be carried out according to authorized dimensions and measurement will be restricted to those authorized dimension even though the Contractor may for convenience of this work exceed the authorized dimensions.
- b. All work shall be measured in accordance with the applicable standard method of measurements prescribed by the Indian Standard Institution (1200 latest edition) unless otherwise specified.
- c. The Contractor shall admit for technical inspection, works which are likely to be embedded or covered by other works and have the necessary measurement books and certificates to this effect duly signed by the Engineer before the works are covered.



- d. On completion of the work, the Contractor must submit to the Engineer the following documents for passing of works.
 - (i) A copy of the working drawing showing thereon all addition and alterations in the process of execution.
 - (ii) A certificate for embedded and covered up works as in sub-Para (C) above
- e. The authorized Contractors representative and a representative of the Employer shall jointly sign a certificate of handing over any completed work and date of signature of that certificate will be that the date from which the maintenance period of that unit will reckoned.
- f. Notwithstanding the above insurance cover has to be taken by the contractor for the full value of work as also for the duration of the contract period. 50% of the Security Deposit shall be released only on the total completion of the building and handed over to BHEL to their satisfaction. Remaining 50% of Security Deposit shall be released subject to the stipulation in our GCC after 6 months from the date of completion of the building.

20. MAINTENANCE OF WORK

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

If the contractor fails to maintain the building satisfactorily, it will be got done by other agency and cost towards such maintenance together with departmental charges will be recovered from the bills/dues of the contractor.

21. SECURITY DEPOSIT

Upon acceptance of the tender, the successful tenderer shall remit the security deposit with Bharat Heavy Electricals Ltd., within the time specified in the letter of intent. The rate of Security Deposit will be as below:

Up to Rs.10 lakhs	10%
Above Rs. 10 lakhs up to Rs.50 lakhs	Rs.1 lakhs + 7.5% of the amount exceeding Rs. 10 lakhs
Above Rs.50 lakhs	Rs. 4 lakhs + 5% of the amount exceeding Rs. 50 lakhs

Successful tenderer to remit Security Deposit

The contractor should submit the Security Deposit before the start of the work.

- i. Cash (as permissible under the IncomeTaxAct).
- 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 Saving Certificates, KisanVikasPatras etc.,
(Certificate 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 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.
- 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 the Security Deposit should be collected before start of the work and 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: Accepting of Security Deposit against Sl.No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favor on BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

For extra items of work and deviated quantities, security deposit will be recovered at 10% of the value of deviated amount. The security deposit will be released as stipulated under clause 16(IV) of GCC.

22. RUNNING ACCOUNT PAYMENTS

During execution of work, monthly payments of all works in place will be made on the basic 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.

23. MOBILIZATION ADVANCE

Mobilization advance not exceeding 5% of work order value excluding taxes & duties or 5% of the estimated cost put to tender whichever is less will be given, if requested by the contractor in writing within one month of the order to commence the work. The advance will be released against executing a bank Guarantee Bond by the contractor from a Scheduled Nationalized Bank as specified by the Engineer-in-charge for the full amount of such advance is released. The contractor has to furnish a proof of the satisfactory utilization of the advance released by the company.

23.1 INTEREST & RECOVERY

The mobilization advance above bear simple interest at the prime lending rate of SBI plus 2% per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance. Recovery of such sums advanced will be recovered by installments through deduction from the contractor's bills at 10% of the bill value till the full advance is recovered. The said bank guarantee for advances shall initially shall be made for the full amount and valid for the contract period, and be kept renewed from time to time to cover the balance amount and likely period of complete recovery together with interest.



24. STATUTORY DEDUCTION TOWARD INCOME TAX WILL BE MADE as per rules.

25. In respect of all labour directly or indirectly employed on the work by the Contractor, the Contractor shall comply with the provisions of the contract labour (Regulation and Abolition) Act 1970 or any amendment thereof and all legislations and rules of the State and or Central Government or other Authority, framed from time to time governing the protection of health, sanitary arrangements, wages, welfare and safety for labour employed on building and construction works. The rules and other statutory obligations with regard to fair wages, welfare and safety measures, maintenance of the register etc., will be deemed to be part of the contract.

26. The Contractor is required to take insurance for all workers employed on works towards payment for workmen compensation. The insurance has to be taken out within 15 days of the award of work and has to be produced at the time of signing agreement. Half (1/2%) shall be deducted for every bill if the contractor fails to produce a proof of having taken such an insurance to cover his workmen.

However the contractor shall be fully responsible for all the consequences arising out of such default. This may also be read with clause 20 of BHEL GCC.

27. TIME OF COMPLETION

The date of commencement of work shall be counted from the date of handing over the site to the contractor. The contractor shall plan the work in such a manner that all roofs are laid before the start of the rainy season and the work is not hampered due to rain. It may be clearly understood that time is the essence of the contract and the entire work should be completed within the time imposed in the tender document letter of intent.

28. The Contractor has to pay the Works Contract Tax (Under relevant section of the State Government Act) of their own, on Monthly basis.

29. The management of BHEL shall be at liberty to terminate the contract by issuing a month's notice to the contractor without assigning any reason what so ever. As regards unsatisfactory performance or noncompliance with any of the terms & conditions of the contract by the contractor. The management of BHEL shall have the right to terminate the contractor forthwith without notice & rearrange the balance work through other agencies at the risk & cost of the contractor & under such circumstances, the Earnest Money Deposit/Security Deposit paid by the contractor shall stand forfeited.

30. WORKMEN COMPENSATION POLICY

The contractor is required to take Insurance for all the workers employed on the works towards payments for workmen compensation. The Insurance has to be taken out within 15 days of the award of work and has to be provided before signing of the agreement. Half percent (0.5%) of the amount shall be deducted from every bill if the contractor fails to produce a proof of having taken such an insurance to cover his workmen. However the contractor shall be fully responsible for the consequences arising out of such default.



APPROVED BRAND OF PAINTS TO BE USED

DISTEMPER

BRAND: - ASIAN, BERGER, BRITISH PAINTS, JENSON & NICHOLSON, NEROLAC or Equivalent.

SYNTHETIC ENAMEL PAINT

ASIAN (APCOLITE SHILIMAR, BRITISH, JENSON & NICHOLSON, NEROLAC, BERGER or Equivalent

PLASTIC EMULSION

BRITISH, NEROLAC, JENSON & NECHOLSON, BERGER or Equivalent.

WATER PROOF CEMENT PAINT SUPER

SNOWCEM or equivalent.

DISTEMPERING ON NEW SURFACE. (OILBOUND)

1. COAT OF PRIMER 0.081 Ltrs/Sqm (one coat)
2. COAT OF DISTEMPER 0.15 kg/Sqm (2 coats)

DISTEMPERING WITHOUT PRIMER

FOR 1 COAT 0.10 Kg/Sqm (For 1 coat)
FOR 2 COATS 0.20 Kg/Sqm (For 2 coats)

SYNTHETIC ENAMEL PAINT.

- a) ON NEW SURFACE ... PRIMER 0.09 Litre/Sqm (For1 coat)
ENAMEL PAINT (2 COATS) 0.15 Litre/Sqm (For 2 coats)
 - b) ON SURFACE
2 COATS WITHOUT PRIMER ... 0.20 Litre/Sqm
1 COAT 0.10 Litre/Sqm
 - c) WATER PROOF CEMENT PAINT
1 COAT ... 0.18 Kg/Sqm
2 COAT ... 0.30 Kg/Sqm
 - d) PLASTING EMULSION PAINT:
2 COATS OF PLASTIC EMULSION 0.121 Litre/Sqm
1 COAT OF PLASTIC EMULSION 0.073 Litre/Sqm
- ON NEW SURFACE**
- 1 COAT PLASTIC FIX PRIMER ... 0.081 Litre/Sqm
- 2 COATS PLASTIC EMULSION ... 0.121Litre/Sqm



LIST OF MATERIALS OF APPROVED BRAND OF MANUFACTURERS		
1	Cast Iron Pipes	a) Indo-Swedish Pipe Mfg. Co.ltd.,] b) Bengal Iron Foundry c) Hindustan Engineering Products or Equivalent.
2	G.I.Pipes	TATA, Zenith, Surya prakash or Equivalent
3	G.I.FITTINGS	R Brand, TATA or Equivalent
4	C.P.FITTINGS	Ark ESSESS, Plumber Driploss or Equivalent
5	Gun Metal Valves	Leader Neta or Equivalent
6	W.C.pans, wash basins Toilet paper holder, Soap trays, Urinals,Auto Flushing tanks.	Hindustan, Parry were CeraNeycer or equivalent
7	W.C.Seats	Commander Bestolite or Equivalent
8	Flushing Cisterns	Hindustan, Sea shell or Equivalent
9	Mirrors	Atul Glass Works, warrior or equivalent
10	Stoneware Pipes	DalmiaMysore Stoneware Pipe & Co., Andhra Pradesh Stoneware Pipe company
11	Door Shutters Commercial ply teak Veneered flush shutters With ISI make.	Kutty Flush Doors and furnishers Co., Mysore Plywood or equivalent Nikky Assam or Equivalent
12	Door framed cold rolled framed sheet sections conformed sheet to IS 43511976.	NSL section T.I. Section or equivalent.
13	Commercial fly/teak Veneered ply block board	Anchor, Mafatlal, Arch, National or equivalent
14	Steel windows with	1) M/s Madhy Industries shutter frame. 2) M/s Eswari Enterprises, Rajajinagar 3) M/s Chamundi Fabricators &Engg., 4) M/s Prabhu and Co., (ACEW)
15	Rolling shutters	Kohinoor, Hericles or equivalent.



16	Bottle traps	Orient & ARK or equivalent.
17	PVC pipes	a) Oriplast b) Prince c) Premier d) Finolex
18	Aluminium Sections	a) Indal b) Zindal or Equivalent
19	Cement	a) Zuary b) ACC c) Cormandala d) L&T e) Birla or equivalent
<i>N.B All equivalent materials shall have to be approved from the Engineering-in charge before being used.</i>		

ACCEPTABLE MAKES OF MATERIALS

S.N.	Material	Acceptable Makes
1	H.T. VCB	BHEL/ Crompton/ Siemens/ ABB/ GE
2	L.T. ACB	Siemens / L&T /E.E. / GE / C & S/ ABB
3	L.T. SDU / FSU / SFU	Siemens/ L&T/ E.E./ GE/ C&S/ Havells
4	Change over switches	C&S / HPL/ Indo Asian/ Havells / L&T
5	Fuse & Fuse Distribution Boards	GE/ Siemens/ L & T./ Standard / Indo Asian / Havells/ C&S
6	Air break Contactors	Siemens/ L&T/ BCH / Telemecanique/ C&S/ Schneider
7	Overload relays	Siemens / L & T/ BCH/ C&S/ Schneider
8	Time delay relay	Siemens/ BCH/ L&T/ EE/ C&S/ Schneider
9	Single phase Preventer	Siemens/ L & T/ BCH/ C&S/ Schneider
10	Rotary/Selector switches	Siemens/ L & T/ Kaycee/ Thaker/ Reco /Switchtron/ Salzer
11	Limit switches	Siemens/ BCH/Essen
12	Toggle switches	Reco/ Kaycee
13	Push button & Indication Lamps	Siemens/ L & T/ Vaishno/ Technic
14	MCCB/ELCB/RCCB	Siemens/ L& T/ GE/ MDS / Legrand
15	MCBs & MCB Boards	Siemens/ GE/ MDS / Legrand / Indo Asian/ BCH/ C&S
16	Industrial Plug & sockets	Crompton/ BCH/ Legrand

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17	Measuring Instruments	AE/ MECO/ IMP/ Conserve/ Alacrity/ Elmeasure
18	Energy Meters	BHEL/Conserve/ Alacrity/ MECO/ Elmeasure
19	Protective Relays	AREVA/ EasunRerole/ EMCO/ ProkDvs
20	Motors	BHEL/ Siemens/ ABB/ Crompton/ Kirloskar/ AEI/ BEACON
21	Motor Starters	Siemens/ L&T/ BCH
22	Power/ Distribution Transformers	BHEL/ Kirloskar/ ABB
23	CTs & PTs	TELK/ Kappa/ Siemens/ Indcoil/AEL/ Kalpa
24	Control Transformers	Indcoil/ Emco/ Kappa/ Kalpa/AEL
25	Cable tray	MEK/ Indiana
26	Cables	CCI/ Universal/ Fort Gloster/ Asian/ Nicco/ Premier/ Polycab/ Havells
27	PVC insulated copper wires	Finolex/ Wincap/ Polycab/ Anchor
28	Telephone cables	Delton/ Finolex
29	Light fittings	Philips/ GEC/ Crompton/ Bajaj/ Wipro
30	Ceiling/ Pedestal/ Wall fans (Light duty)	GEC/ Cromtpon/ Orient/ Usha/ Bajaj/ Khaitan
31	Pedestal/ Wall fans (Heavy duty)	Almonard/ Crompton/ GE
32	Cable Glands	Dowels / Lotus/ Braco / Comet / Jainson
33	Copper Lugs	Dowell / Comet / Uma

S.N.	Material	Acceptable Makes
34	Piano type switches, sockets, plugs, Ceiling Rose	Anchor/ Record/ Lisha./ MK/ LK/ Havells/ Legrand
35	Conduit pipes & accessories	GB / BHARAT
36	PVC Conduit pipes & accessories	Universal/ Uniplast/ VIP/ AVON Plast
37	PVC Casing & Capping	MODI / MKI
38	Power Capacitors (HT/LT)	BHEL/Khatau Junker/GEC/ Asian/ Unistar/ MEHER/ EPCOS
39	Fancy light fittings & other items	As required & approved by BHEL-EDN

Note : 1) Contractors shall use only Standard / ISI marked items after approval of 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. The right of accepting such alternate makes rests with the BHEL.

CONTRACTOR

EMPLOYER



FORM OF TENDER

Having examined the invitation to bid, Instructions to Bidder, General conditions of contract, special conditions, specifications tender schedule, contract drawings and other documents for the above work, we the undersigned, offer to construct, erect complete and maintain the whole of the said in conformity with the said bid documents on the terms and conditions and under the provisions set out or called for in the contract documents at the rates listed in the schedule of unit prices or else wherein the contract documents.

We undertake if our bid is accepted, to commence the works within 7 days from the date of issue of award and to complete and delivery the whole of the works comprised in the contract as per the time schedule agreed to the contract document.

We agree to abide by this bid for the period of three months from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before expiry of the period.

Until and unless a formal agreement is prepared and executed this bid, together with your award thereof shall constitute a binding contract between us.

CONTRACTOR

EMPLOYER



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 as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever 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 of 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 employer of BHEL or an employer 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 its duties as such he had expressed views on all or any of the matters in dispute or difference. The Arbitrator 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 reenactment 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 a term of a 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 the publishing the award.

The work under the contract shall, if reasonably possible, continue during the arbitration proceeding 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 issued notice to both the parties fixing the date of the 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.

ANNEXURE –I

GUIDELINES FOR REVERSE AUCTION PROCEDURE

Against this enquiry for the subject items/system with detailed scope of supply as per enquiry specifications, BHEL-EDN proposes to resort to “REVERSE AUCTION PROCEDURE” i.e., ONLINE BIDDING ON NETWORK, before finalizing the purchase order on technically competent bidders as per the guidelines given below:

1. Reverse auction procedure shall be applicable for 2 part bid tenders only.
2. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate, BHEL will engage the services of a service provider, having network all over the world. The online bidding can be done from the vendor's respective offices on their computers with internet facility or at any of the cyber café, for which services provider's representative will provide all necessary training and assistance before commencement of on line bidding. Training is free of cost.
3. Vendors have to fax the compliance form in the prescribed format (provided by Service provider) before start of reverse auction. Without this, Reverse Auction will not be started. Delay in fixing the above will lead to disqualification.
4. BHEL will send the Auto formulated EXCEL sheet which will help to arrive at “Total Cost to BHEL” like Basic Materials Cost, Packing & forwarding charges, Excise duty, Sales tax/VAT, Freight charges, Insurance (by BHEL), Service Tax for Service,(-) ED disclaimer if any, loading factors (for non- compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the auction.
5. Reverse Auction will be conducted on mutually agreed schedule and time.
6. After Reverse Auction is conducted, successful bidder has to FAX the filled- in Excel sheet showing the final value accepted in Reverse Auction with breakup of each element as indicated in Sl No.4 above to the service provider within 48 hours of auction without fail.

Note: No Charges are allowed in rate of excise Duty, Sales Tax, Freight, Insurance, Service Tax and Loading factors after auction is completed.

7. After the reverse auction is conducted, the bidder whose price is lowest (total cost to BHEL, after considering all factors as per enquiry including loading factors for deviations to BHEL standard Commercial Terms & conditions), BHEL will process the tender as per BHEL purchase norms. Purchase order will be issued without loading factors for deviations.

Note: BHEL will also reserve the right to open the sealed price offer

submitted by the vendors for comparison purpose, if deemed necessary, without any intimation to the technically and commercially accepted bidders.

8. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price Bids and Price impacts (if any) already submitted and available with BHEL shall only be opened as per BHEL's standard practice without seeking anymore price impacts on account of BHEL not going for Reverse Auction. Hence please quote your best lowest price in first instant itself.
9. Training by service provider will be given only for the subsequent reverse auction. Training will not be given for a company which has already taken training for the FIRST REVERSE AUCTION conducted by BHEL-EDN, Bangalore.

10. Activities involved in Reverse Auction:

- a) BHEL will inform the vendor in writing, the Service provider's information to enable them to contact & get trained. Along with above information Business rules/policy also will be sent.
- b) Vendors have to contact Service provider and send Compliance form for having understood Reverse Auction procedure and ready for auction.
- c) BHEL will send the Auto formulated Excel sheet (blank format without prices) as mentioned in SI No.4 above to the respective vendors.
- d) Vendors have to fill-in the Excel sheet (provided by BHEL) including loading factors and get ready for reverse auction.
- e) Date & Time of reverse Auction and Website address will be intimated by Service provider.
- f) Bid decrement will be indicated in the website after the Sealed bid is over and before start of Reverse auction.
- g) Vendors will have to key-in the "Total cost to BHEL" (as worked out in the Excel sheet mentioned in SI No.4 above) in the "Sealed Bid" of the Reverse Auction within specified time duration of 20 to 30 minutes. After "Sealed Bid" auction, the lowest bidders value or BHEL's start bid price will be the starting bid value for the commencement of Reverse auction(English Reverse).
- h) At the end of Reverse auction time (English Reverse), the lowest bidder will be known on the network.
- i) Successful bidder has to fax filled-in EXCEL sheet showing the final value accepted in the Reverse auction with breakup of each component within 48 hours of completion of the Reverse Auction without altering any of the terms to the service provider. Any alterations will be taken as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL for the period of 2 Years.
- j) The loading factors for non-conformance to BHEL standard commercial terms are only for arriving at lowest bidder. In the event of purchase order, same will be issued without loading factor values indicated in EXCEL sheet. We repeat PO; will be issued for scope of Supply + Packing & Forwarding charges if any, Excise duty, Sales tax, Service tax for service and Freight Insurance. Insurance will be to BHEL account.

ANNEXURE-II

Ref.
Date:

SITE INSPECTION CERTIFICATE

This is to Certify that, I / We.....
..... had inspected the proposed construction site thoroughly and understood the scope of works to be carried out in line with construction drawings/designs/data/Bill of quantities/schedule of items / specifications as brought out in the Tender as desires by BHEL.

Agreeable to all Terms & Conditions of Contract and assure to complete the work within the stipulation time frame.

Signature of the contractor

Name:
Seal:

CONTRACTOR

EMPLOYER

Date : _____

CERTIFICATE [to be issued by Banks as mentioned in the attached list not later than 12 months]

Ref: _____

This is to certify that M/s. _____ having their Registered Office at _____ is solvent to the extent of Rs. _____ [Amount in Words _____] as disclosed by the information and record which are available with the bank.

This certificate is issued at the request of M/s. _____ for a Tender Purpose.

This certificate is issued without any risk/liability or responsibility whatsoever on the part of the Bank or any of its officers.

For Bank _____

Name of Signatory

List of Consortium Bank			
	Nationalised Bank		Nationalised Bank
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign bank
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private bank
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC
15	State Bank of Travancore	30	Kotak Mahindra Bank
16	UCO Bank	31	ICICI
17	Union Bank of India	32	Indusind Bank
18	United Bank of India	33	Yes Bank

**Electronic Funds Transfer (EFT) OR
Paylink Direct Credit Form**

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): _____ CREATE _____ CHANGE

BHEL Vendor / Supplier Code:	
Company Name :	
Permanent Account Number(PAN):	
Address	

City: _____ PINCODE _____ STATE _____

Contact Person(s)	
Telephone No:	
Fax No:	
e-mail id:	

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

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone NO. with STD Code

Company Seal

Bank Certificate

We certify that _____ has an Account No _____ with us and we confirm that the bank details given above are correct as per our records.

Date: _____ (.....)

Place: _____ Signature

Please return completed form along with a blank cancelled cheque or photocopy thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

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

TECHNICAL SPECIFICATION

CONTRACTOR

EMPLOYER

Functional requirement specification

1. Introduction:

This specification covers the requirements for setting up a modern customer center, the purpose of which would be to receive customers & other stake holders and to conduct meetings with customers, consultants, and other stake holders. Customer center shall include the following:

- i) Conference Hall - Two Nos
- ii) Dining Hall
- iii) Customer Lounge
- iv) Toilets

The existing area has to be refurbished to set up a state of the art Customer Center. The customer center is envisaged to have lounge area, modern audio-visual equipment, modular tables with provisions for workstations and monitors, large video screens, convenient lighting arrangement, appropriate interior décor, flooring, false ceiling and such other amenities as may be required to support the concept, should be integral to the conception of the architecture.

This scope of this specification includes interior design, Electrical work including supply of all materials electrical wiring, LAN cabling, mounting and wiring of speakers of PA system, All electrical and LAN cabling are to be concealed. Customer center shall be handed over to BHEL after Commissioning & testing of all the facilities.

2. Location

- 2.1 The proposed work is to be carried out in the Ground Floor Annexe, New Engineering Building, at EDN. Existing floor Plan of is attached as Annexure-A.

3. Architecture

i) Conference Halls

The conference hall is envisaged to be a modern and shall have state-of-the-art audio-visual equipment which shall be used to host meetings/ interactions for about 20-22 personnel. The other conference hall shall seating capacity of 10-12 personnel. The ergonomics must support this objective. The conference hall shall have modular desk, with inbuilt facility of power and LAN {inbuilt flap arrangement}. Interior décor, flooring, concealed wiring, convenient lighting arrangement and such other amenities as may be required to support the concept, should be integral to the conception of the architecture. These halls are to be refurbished with state of the art acoustic wall paneling, false ceiling.

A suggestive arrangement of the hall for the proposed scope of work is given in Annexure-B Scope of work includes the arrangement of lights (round ceiling), routing of electrical and LAN cables etc. that satisfy the requirements of this specification subject to acceptance and approval by BHEL. Split ACs according to the room capacities **.

ii) Dining Area

The Dining facility with an adjacent pantry is envisaged.

Modular Tables & Chairs to accommodate 25 personnel at a time to be provided. The pantry room shall have water dispenser, modular storing cabinets, microwave oven, and refrigerator**

iii) Customer Lounge

The customer lounge is proposed to have a seat out area which shall be supported with modular furniture like Sofa Sets/ Table etc**. Entrances & the partitioning in Lounge Area is envisaged to be of Glass make. BHEL Logo Embossing is required in of the glass partitions & Lounge area shall house a large display unit.

iv) Toilets

Existing toilets to be refurbished in setting up modern toilets for Gents & ladies.

v) Information Center

Information center shall have two PCs (with latest configuration & Office Software) ** with provision of internet. One No A4 size Printer/photo copying machine / scanner ** is envisaged.

Entire Customer center shall have designer gypsum/ wooden ceiling & interior shall have wooden paneling wherever applicable.

Bidders are free to offer any other architectural arrangement that may satisfy the requirements of this specification subject to acceptance and approval by BHEL.

4. Scope of Supply ELECTRICAL WORKS

- 4.1 Supply, Installation, Commissioning & Testing of Distribution boards
- 4.2 Supply, laying and connecting of suitable rating cables from the main panel to the above distribution boards.
- 4.3 Supply, laying inside pipes and connecting of suitable rating cables through pipes from distribution boards to:
 - a). UPS for conference halls
 - b). LVS system / Projector
 - c). Audio System
- 4.4 Laying of LAN cables in the conference halls, for LVS system, large display unit in lounge area and in information center.
- 4.5 Supply and fixing of lights and fixtures in the false ceiling. Supply, laying and connecting of cables to these lights.
- 4.6 Commissioning of the complete electrical system in the customer center.
- 4.7 Any other work not defined but required for successful completion.

5. Scope of Supply Civil/ Interior Works

- 5.1 Supply of modular Desks for conference halls seating capacity as indicated in technical specification
- 5.2 Acoustic Wall Paneling

Supply and installation of grooved acoustic panels of high density fiber/particle board with approved laminated finish on front and balancing layer adhered to its rear face.
- 5.3 Gypsum/ False Ceiling

Providing and fixing suspended false ceiling system which includes all fasteners and fixtures to hold it.

5.4 Vitrified Flooring (Concealed Wiring)

5.5 Toilets

5.6 Any other work not defined but required for successful completion.

SERVICES

The successful bidder should co-ordinate with the BHEL Engineer -in charge and ensure that the awarded work of interior and electrical related is carried out seamlessly.

6. DOCUMENTATION

6.1 Vendors to submit, the following along with the bid:

- (a) Clause wise comments. If any deviations are requested, supplier to clearly bring out the details of deviations.
- (b) Complete Bill of Materials along with detailed specifications,
- (c) List of similar jobs undertaken/completed for different clients
- (d) A schedule of activities with estimated timeframe.
- (e) Detailed 3D view of proposed arrangement or detailed drawings may be submitted along with the proposal.

6.2 On award of the contract, the vendor is required to submit

- (a) Fully developed 3-D views in colour from different angles to match the GA drawing for approval
- (b) Complete Bill of Materials along with detailed specifications, make etc, and estimated quantities, along with proposed execution drawing for BHEL approval.
- (c) A schedule of activities with estimated timeframe.
- (d) Detailed drawings of the proposed layout, cable routing and light distribution
- (e) Catalogues, manuals, service instructions of all supplied equipment
- (f) As built drawings of all facilities in soft and hard copies

7.0 WARRANTY

One year from date of completion or 18 months from date of supply against manufacturing defects and defective workmanship.

Note: ** Items would be procured by BHEL Separately.

SCHEDULE OF WORK / PRICE BID

CONTRACTOR

EMPLOYER

Sr. No.	Description	Unit	Qty.	Unit Rate	Amount
	Furniture				
1	Conference Table# 01: Table top: made up of 36mm thick Pre laminated Particle Board with 2mm PVC edge Banding tape. Gable End: made up of 18mm thick Pre laminated Particle Board with 2mm PVC edge banding tape. Modesty Panel: made up of 18mm thick Pre laminated Particle Board with 2mm PVC edge banding tape. Accessories: Flap type cable manager Approx Dimensions: 6000(W) X 2400(D) X 750(H)	Nos.	1		
2	Conference Table # 02: Table top: made up of 36mm thick Pre laminated Particle Board with 2mm PVC edge Banding tape. Gable End: made up of 18mm thick Pre laminated Particle Board with 2mm PVC edge banding tape. Modesty Panel: made up of 18mm thick Pre laminated Particle Board with 2mm PVC edge banding tape. Accessories: Flap type cable manager Approx Dimensions: 3500(W) X 1500(D) X 750(H)	Nos.	1		
3	Dining table: Table top: made up of 25mm thick Pre laminated Particle Board with 2mm PVC edge Banding tape. Gable End: made up of 25mm thick Pre laminated Particle Board with 2mm PVC edge banding tape. Approx Dimensions: 900(Dia) X 750(H)	Nos.	6		
4	Conference and Meeting Chair:	Nos.	31		
5	Dining Chair: Plastic Moulded Web Chair	Nos.	24		
	Interior				
6	Designer wooden paneling :- Wooden paneling made out of 2" X 2 ½ " hardwood sections covered by 12 mm commercial grade of Century /Truewood / Duro / Green/ Mayur gold or equivalent ply, with necessary teak wood lipping on all the exposed edges with 1 mm thick fine line finish laminate of approved color, shade and finish.	Sq. Ft	564		
7	Designer Concept Paneling with Wooden and Fabric Composite Panels :- Paneling with Designer Fabric to be stretched taut without wrinkles or sagging and shall be installed in matching sequence with Wooden paneling made out of 2" X 2 ½ " hardwood sections covered by 12 mm commercial of Century /Truewood / Duro / Green/ Mayur gold or equivalent ply, with necessary teak wood lipping on all the exposed edges with 1 mm thick fine line finish laminate and Fabric of approved color, shade and finish.	Sq. Ft	957		
8	Wooden panel made rafter :- Wooden raftar made out of 2" X 2 ½ " hardwood sections covered by 12 mm commercial grade of Century /Truewood / Duro / Green/ Mayur gold or equivalent ply, with necessary teak wood lipping on all the exposed edges with 1 mm thick fine line finish laminate of approved color, shade and finish.	Sq. Ft	648		
9	Glass Partition :- (made of 12 mm thick toughened glass) Full glass partitions of minimum 12 mm thick clear toughened glass with structural support at top and bottom including holding system from RCC slab above false ceiling including fixing with runner hung anchor fasteners. Bottom	Sq. Ft	591		

	fixed into SS "U" channel grouted in floor with rubber interlinear & gaskets. Gap filled with silicon sealant.				
10	Gypsum Paneling :- It shall consist of 12mm thick gypsum board panels which has screw fixed on one side of G.I framework and with plastic emulsion paint finish of approved shade. 50 x 40 mm GI sections placed 600 x 600 mm c/c with extra sections at ceiling & flooring level including skirting level. SKIN : Fixing of 12.5mm thick gypsum board with staggered joints. Edges are properly finished to have a flush look includes filling with jointing paper tape & two coats of primer suitable to gypsum. Including pr-laminated skirting of 12mm thick x 75mmht and 25 x 12 mm GI angle to create 12 x 12 groove at the bottom.	Sq. Ft	364		
11	12mm thick frameless tempered clear glass single door :- Size :- 900mm X 2100mm With door spring and locking arrangements and both way handle and patch fittings. Specifications: Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Properties: 1) Safety (tempered): when broken, it spits into tiny harmless pieces 2) Strong intensity: heat-strengthened glass is approximately twice as strong as annealed glass of the same thickness, and tempered glass is about 4 times 3) Outstanding performance in resisting thermal stress and wind-load 4) Tempered glass cannot be cut, drill hole and other further processed.	Nos.	2		
12	12mm thick frameless tempered clear glass single door :- Size :- 750mm X 2100mm With door spring and locking arrangements and both way handle and patch fittings. Specifications: Tempered glass is formed by heating glass to the softening point in a horizontal tempering stove, and then quickly cooling it. Properties: 1) Safety (tempered): when broken, it spits into tiny harmless pieces 2) Strong intensity: heat-strengthened glass is approximately twice as strong as annealed glass of the same thickness, and tempered glass is about 4 times 3) Outstanding performance in resisting thermal stress and wind-load 4) Tempered glass cannot be cut, drill hole and other further processed.	Nos.	2		
13	Designer Flush single door (900mm X 2100mm) with grooves & glass :- 35mm thick consisting of solid core block bonded with phenol formaldehyde synthetic resin confirming to IS: 848. The shutters shall be faced on both sides with 3mm thick water proof plywood finished with 1mm thick laminate of approved shade and make. 35x20mm second class Teak wood lipping shall be provide all around the shutter by means of approved quality neoprene based adhesive and nailing @300mm (maximum). Teak wood lipping shall be French polished (lacquer finish) as per specifications. The shutter shall be fixed to frame by means of 125mm long MS butt hinges conforming to IS:1341 @ 600mm CC maximum. With door spring and locking arrangements and both way handle.	Nos.	3		

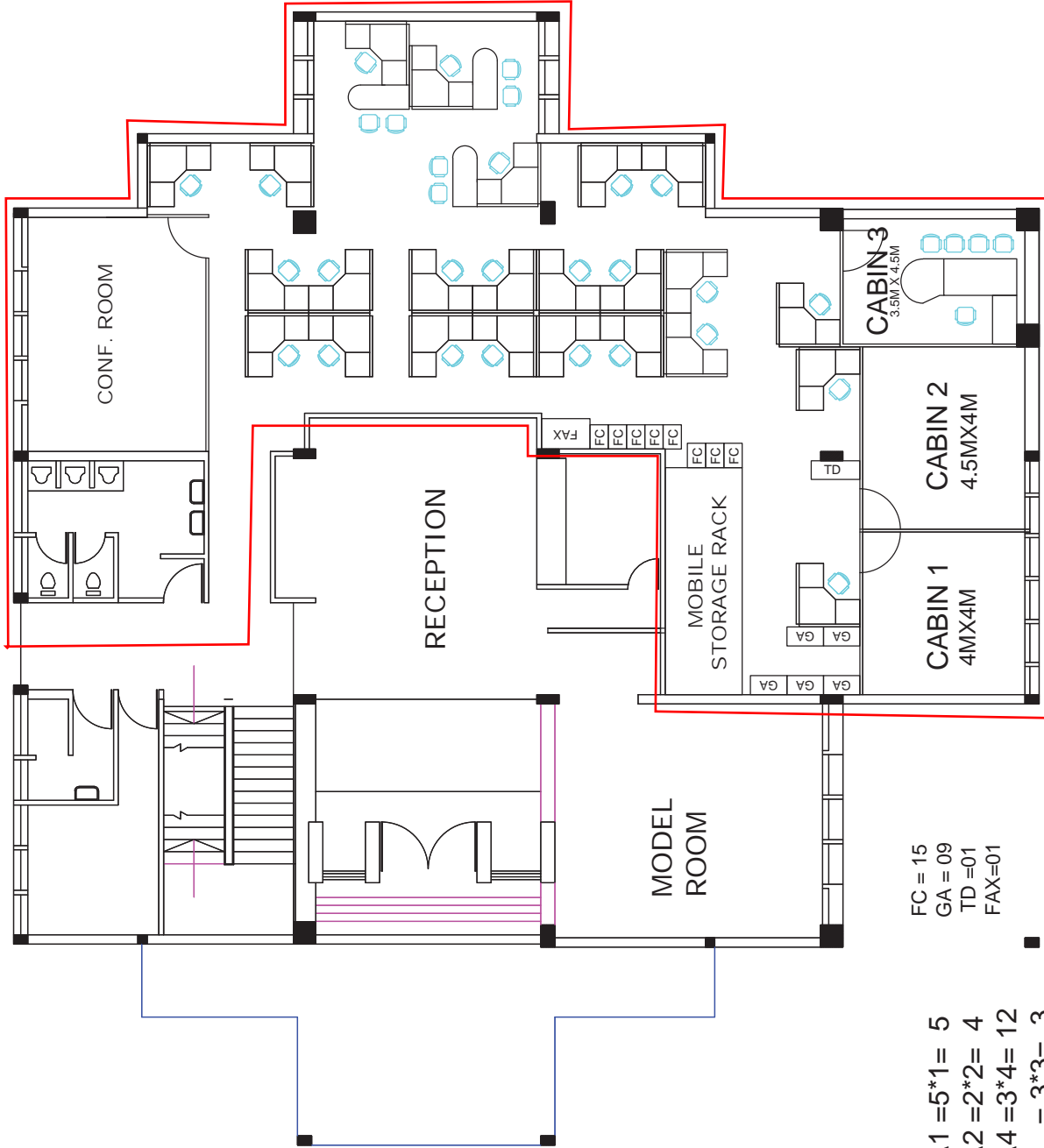
14	Flush single door (750mm X 2100mm) :- 35mm thick consisting of solid core block bonded with phenol formaldehyde synthetic resin confirming to IS: 848. The shutters shall be faced on both sides with 3mm thick water proof plywood finished with 1mm thick laminate of approved shade and make. 35x20mm second class Teak wood lipping shall be provide all around the shutter by means of approved quality neoprene based adhesive and nailing @300mm (maximum). Teak wood lipping shall be French polished (lacquer finish) as per specifications. The shutter shall be fixed to frame by means of 125mm long MS butt hinges conforming to IS: 1341 @ 600mm CC maximum, with door spring and locking arrangements and single way handle.	Nos.	2		
15	Designer Ceiling (Gypsum & Wooden) :- Providing designer ceiling as per drawing in combination of wooden & gypsum made out of 2" X 2 ½ " hardwood sections covered by 12 mm commercial grade of Century /Truewood / Duro / Green/ Mayur gold or equivalent ply, with veneer finish of approved color, shade, make and finish for wooden part and gypsum acoustic false ceiling with 12.5mm thick of GYPSUM board, fixed to the underside of suspended grid formed of GI perimeter channels. fixed along the wall by using wood screws and metal expansion raw plugs. Gypsum boards finished with plastic emulsion paint of approved make and shade.	Sq. Ft	250		
16	Designer Gypsum Ceiling :- Designer gypsum acoustic false ceiling with 12.5mm thick of GYPSUM board, fixed to the underside of suspended grid formed of GI perimeter channels. fixed along the wall by using wood screws and metal expansion raw plugs. Gypsum boards finished with plastic emulsion paint of approved make and shade. Overall look of the ceiling shall be technical. The design and selection of material will depend on the overall aesthetics and acoustic requirements.	Sq. Ft	2623		

Sr. No.	Description	Unit	Qty.	Unit Rate	Amount
	Interior- Electrical				
17	Ceiling light (with Acrylic cover in Conference room Designer Ceiling) :- Complete with slim open type low loss copper ballast and accessories pre-wired up to terminal block in the control gear chassis Conforms to IS 10322 / Part 5/ Sec.1: 1987. Perforated cylindrical shaped diffuser in white powder coated steel incorporating opalescent polyester foil. Suitable for modular Ceiling systems of 2' X 2'.	Nos.	18		
18	Round Ceiling light:- Venus-recess mounted down lighter with frosted diffuser lamp Type: 2X18W CFL Round light compatible with gypsum ceiling.	Nos.	70		
19	Emergency Light :- Emergency lighting provided for use when the supply to the normal lighting fails; emergency lighting shall be activated not only on complete failure of the supply to the premises but also on a localized circuit failure.	Nos.	18		
20	Cove Light for designer Ceiling :- It will be a continuous rail of LED light, high brightness, neutral, or warm white with wall washing applications. Its slim profile and simple daisy-chain system allows high design flexibility to form long.	R. Ft	361		
21	Wiring for ceiling lights :- For ceiling wiring inter looping will be done and switches will be provided (Switches Make: Anchor ROMA) Any kind of LDB for raw power and UPS power will be in the scope of the customer & the same should be in 5 meters range of the working area. Wiring shall be done with PVC conduit. Provision of electrical points for Air Conditioner in the conference halls & Sit-out area, Points for Refrigerator etc., in the dining area. Further Sockets approx. 05	Sq. Ft	2996		

	Nos in Sit-out area & 03 Nos in Business Center are considered.				
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Sr. No.	Description	Unit	Qty.	Unit Rate	Amount
22	Designer Wallpaper : Wallpaper shall be fixed on smooth wall covering onto wall surface by applying adhesive to wall surface using a spatula. The Wallpaper shall provide some resistance to knocks, scrapes and with regular cleaning they should retain their original appearance for 3 - 5 years, depending on area of use.	Sq. Ft	355		
23	Plastic emulsion paint :- The surface shall be free from dust, dirt, grease and other foreign matter and shall be smooth by sand papering. The primer coat shall be alkali resistant primer or emulsion primer and shall be same manufacture as plastic paint.	Sq. Ft	3206		
24	Wall Putty :- Material for 2mm thick Putty on all exposed portions of beams, columns and walls as directed by the consultants including mixing, scraping, and levelling the surface, cleaning and complete in all respects to receive the paints & finishes.	Sq. Ft	3561		
25	Vitrified Flooring :- Fully vitrified, 10 mm thick non-porous, homogenous, abrasion resistant, minimum size 600 mm x 600 mm x 10mm of approved color and shall be laid over concrete floor with laying compound strictly as per manufacturer's specification. Total thickness of the flooring shall be 40mm thick including the thickness of the tiles, under bed. Tiles will be laid with 2 mm gap using spacers and gap will be filled with black color epoxy laticere.	Sq. Ft	2610		
26	Granite Stone for platforms & counters :- Providing 18 mm thick granite premoulded and prepolished for kitchen platforms & counters of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	Sq. Ft	39		
27	Logo	Nos.	2		
28	Supply of Toilet block materials a) Size shall be 3400*3400mm b) Supply of two wash basin with all necessary fittings and fixtures Hindustan/Cera/ Parryware make c) Supply of two urinal with cistern Hindustan/Cera/ Parryware make with 300 mm marble partitions in between. (in gent's toilet) d) Supply of two European style water closet with flushing cistern of Hindustan/Cera/ Parryware make. e) Supply of Looking mirrors, hanger, towel rail, soap dish and automatic hand-drier at washbasins. f) Supply of Antiskid tiles of Bell/Johnson/Kajaria shall be provided in flooring and dadoes g) Supply of all plumbing fittings and piping of approved make shall be inclusive h) Supply of One exhaust fan of approved make and sweep including all fixtures, concealed cabling and switches shall be supplied and installed D) Outside the doors HE-SHE plates shall be fixed.	Lot	1		
	Total estimated value (inclusive of taxes)				

ANNEXURE - A



FC = 15
GA = 09
TD = 01
FAX = 01

A1 = 5*1 = 5
A2 = 2*2 = 4
A4 = 3*4 = 12
B = 3*3 = 3

16-06-2010
2.30PM

TOTAL = 24NOS
CABINS = 4 Nos.

BLDG. NO.	TITLE	PREPARED
01/GF	Existing for Proj. Mgmt. & Comm. (Extension)	SADHANA.C.M
PRODUCTIVITY & TECH. SERVICES		APPROVED
BHARAT HEAVY ELECTRICALS LTD		FINAL
Electronics Division		PREPARED ON
DRG. NO.: IE41-09002 R00		GIRIDHARA.K.M

ANNEXURE - B

