

**TENDERS SHALL BE SUBMITTED /DROPPED IN
TENDER BOX AT SECURITY CONTROL ROOM**

**B H A R A T H E A V Y E L E C T R I C A L S L T D
CORPORATE R & D DIVISION, VIKASNAGAR
HYDERABAD-500093**

TEL : (040) 2388 2110 & 2377 2339

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TENDER NOTICE NO.: CL/23/2012-13 DATED: 17/05/2012

- | | | |
|---|--|--|
| 1 | Name of work: | Construction of control room for 250 kW SPV Power plant in BHEL R&D Lab complex. |
| 2 | Earnest Money Deposit (EMD): | Rs. 60,000.00 |
| 3 | Time of completion: | Five (5) Months |
| 4 | Maintenance period: | Twelve months from date of completion |
| 5 | Last date of receipt of tenders: | 21-06-2012 (14.30 Hrs) |
| 6 | Tender Opening Date/Time: | 21-06-2012 (14.45 Hrs) |
| 7 | Cost of tender documents (Including S.T.): | Rs. 500.00 |

Name & Address of the contractor/Agency:

EMD PARTICULARS -----

TENDERING PROCESS

A. Civil Tender box is located at Security Control Room for submitting Tenders.

B. Tenders would be received in two-bid system / ~~single-bid~~
(~~open/limited~~) system.

1. Technical bid (First sealed envelop / cover)

2. Price bid (Second sealed envelop / cover)

C. Tender opening

On the day of opening, only technical bids (first envelop) would be opened. The technical offers would be evaluated for compliance to technical requirements and terms and conditions of contract. Gaps if any would be clarified from the vendor during technical scrutiny. Un-acceptable offers would be rejected without any notice. On scrutiny and acceptance of the technical bids, price bids of accepted parties only, would be considered for opening. Date of opening of price-bids will be intimated to the qualified parties, separately.

The technical-bid consists of technical schedules requiring documentary proof. In case the contractor/agency has not satisfied all the conditions along with documentary proof, the tender will be rejected.

Technical and price bids must be in two separate covers, clearly marked as "**Technical-bid**" and "**Price-Bid**". The tender notice / item number for which offer is submitted shall also be clearly written on top of the covers. Common or mixed tenders (with both technical and price bids in one envelop or technical-bid containing prices offered as in one part bid), if received will be **rejected**. The technical-bid shall also include **un-priced price-bid** to indicate **true style** in which price-bid has been submitted. All pages of the price-bid document shall be signed and stamped by the tenderer at the bottom of the page.

In case of tender application and tender documents downloaded from website, the tenderer shall pay cost of tender documents and EMD for item of work for which he is tendering, separately by means of **two separate Demand Drafts** (in favor of **Accounts Officer, BHEL R&D Vikasnagar, Hyderabad 500 093**) one towards cost of tender documents and second towards EMD. Both DD's shall be enclosed along with the Technical-bid. Demand drafts issued, latest on last date of receipt of tenders will be accepted.

TECHNICAL- BID

(First Three pages along with necessary Documents and EMD should be submitted as Technical Bid)

Name of the contractor:	
Name of work :	
Tender Notice No & Date:	
Item No. :	
Details of DD/Cash paid for tender documents	
DD / Cash receipt No. (for EMD)	
DD / Cash receipt No. (for cost of tender documents)	
Particulars of experience/credentials:	
Completion certificate for same nature of job during the last three years (at least one work) valued at >50 % of estimated value.	
Turnover (>50 % of Estimated Value, EV) in any year of previous 3 years for each item of work.	
Civil Contractor Class Registration: With Local PWD/ CPWD/ Railways/ MES / Any Unit of BHEL and other PSU in Hyderabad (Certificate copy to be enclosed)	
ESI NO. (Copy to be enclosed)	
PF-CODE NO. (Copy to be enclosed)	
PAN NO. (in case not available, proof of having applied with acknowledgement from concerned authorities)	
Service Tax No.	
APGST/VAT/TIN NO. (incase applied for, proof of having applied with acknowledgement from concerned authorities).	

NOTE:

1. Tenders without PAN, PF No., APGST/VAT/TIN, Service Tax, etc will be rejected.
2. Technical-bids will be scrutinized on opening of Technical-bid. Incase the agency has not satisfied all the above conditions with documentary proof the offer will be rejected and price-bid will not be opened.
3. Incase of a registered firm, all the documents shall be in the name of the firm. However in case of sole proprietor or individuals, documents in favour of sole proprietor or individual is acceptable.
4. Tenderer presently working with BHEL R&D should submit requisite documents, even though such documents are submitted by them in previous contracts.
5. All the columns shall be filled with proper information.
6. The contractors are requested to sign on all pages in the documents.
7. **Penalty:** Time is the essence of the contract, if the contractor fails to complete the work within stipulated time, the contract is liable to pay at a rate of 0.50 % of the contract value per week, subject to a maximum penalty of 10% of the contract value.

We/ I agree to above conditions and certify that the particulars given are correct.

Signature of Contractor/s

Seal

Date:

TENDER DOCUMENT

TENDER NOTICE .CL/23/2012-13 DATED : 17/05/2012
NO.

DATE & TIME OF CLOSING OF SALE OF TENDER DOCUMENTS **20-06-2012** 14 : 00 HRS

DATE & TIME OF SUBMISSION OF TENDER **21-06-2012** 14-30 HRS

DATE & TIME OF OPENING TENDER **21-06-2012** 14 : 45 HRS

COST OF TENDER DOCUMENT : Rs.500/-

EARNEST MONEY DEPOSIT (EMD): Rs.60,000.00

NAME OF WORK : **Construction of control room for 250 kW SPV power plant in BHEL R&D Lab complex**

ISSUED TO: _____

DATE: -----

EMD PAID VIDE DD/ CR/ BC/ NO:

Rs:

TENDER POSITION:

CLX:

DATED:

FMX



BHARAT HEAVY ELECTRICALS LTD
CORPORATE R&D, VIKASNAGAR,
HYDERABAD – 500 093.

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ISSUING OFFICER



BHARAT HEAVY ELECTRICALS LTD
CORPORATE R&D, VIKASNAGAR,
HYDERABAD – 500 093.

TENDER NOTICE

1. NO.CL/23/2012-13 Dt.17/05/2012, Sealed Tenders are invited by DGM (Projects), Bharat Heavy Electricals Ltd., Corporate Research & Development Division, Vikas Nagar, Hyderabad-93 (close to HAL Complex, Balanagar) up to 14-30 Hours on 21-06-2012 for the work of

**Construction of Control Room for 250 kW SPV power plant
in BHEL R&D Lab complex**

2. The CPWD Standard Specification and other documents relating to the contract such as additional specifications, drawing descriptive specification sheet regarding materials etc, can be seen on all working days between 9:00 AM and 1:00 PM in the Office of the DGM (Projects).
3. Tender forms and other particulars regarding the proposed work can be **obtained** at the office of the DGM (Projects) on any working day from 9:00AM to 1:00 PM up to 20-06-2012 on payment of the prescribed sum of Rs.500.00 (Rs. Five hundred only) per set, not refundable.
4. The Tenders will be opened by the DGM (Projects) Bharat Heavy Electricals Ltd., Corporate Research & Development Division on the date and at the place aforementioned. The Tenderers or their agents are expected to be present at the time of opening of the Tenders.
5. Tenders submitted shall be without any over writing or corrections. On opening the Tender BHEL shall attest over writings or corrections, if any, in the presence of the participant (parties) present at the time. The Tender should not be modified and shall be on prescribed form and obtained from the Office of the DGM (Projects).
6. Tenders must be submitted in sealed covers (one for each bid) addressed to DGM (Projects), Bharat Heavy Electricals Ltd, Corporate R & D, Vikasnagar, Hyderabad-500 093. The name of the Tender and the name of the work shall be indicated the top of the cover/envelop.
7. If the Tender is made by an individual, it shall be signed with his full name and address. In case of a private firm/company, empowered officer / executive shall sign indicating his firm name, post and address. Documentary evidence shall be provided for his authority giving details of all the partners. If the tender is made by a corporation, it shall be signed by duly authorized Officer who shall produce satisfactory evidence of his authorization.
8. Each Tenderer must pay as Earnest Money, a sum of Rs.60,000/- (Rs. Sixty thousand Only) as Earnest money deposit (EMD). The earnest money prescribed for this work may be offered in the form of a Pay order or demand Draft, drawn in favour of Account Officer BHEL R&D, Vikasnagar, Hyderabad -500 093.
9. The Earnest Money will be retained in the case of the successful tenderer and can be converted to part of security Deposit for the due performance of the contract. EMD and SD will not carry any interest. Deposits will be dealt with as provided in the conditions attached to the tender.
10. The Earnest Money will be refunded to the unsuccessful/ technically rejected tenderer after the intimation of rejection.

11. The tenderer shall make himself or his representative available at the office of the DGM (Projects) for tender related clarifications as per written/oral intimation to him.
12. The successful tenderer shall make him self available at the office of DGM (Projects) for preparation of contract documents like contract agreement on written/oral intimation. Failure to do so shall entail forfeiture of the EMD.
13. EMD by the Tenderer will be forfeited as per Tender Document if:
14. After opening the tender, tenderer revokes his tender within the validity period or increased his quoted rates.
15. The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.
16. EMD shall not carry any interest.
17. Tenderer shall pursue carefully the instructions provided in ‘Direction to Parties Tendering’ and the conditions of the agreement form and all other relevant documents before tendering rates for the work. The approximate quantity of work to be executed under each class is given in Schedule–A. The quantities are given with a view to enable the tenderer to quote his overall rate for each class of work in the tender form and for a uniform comparison of tenders. It shall be definitely understood that Bharat Heavy Electricals Limited does not accept any deviations (omissions, deductions, or additions) that may be made in the tender documents by the parties tendering.
18. DGM (Projects) reserves the right to reject any tender or part thereof or all the tenders without assigning any reasons thereof.
19. Tenderer offering a percentage deduction or increase on the estimate amount and those not submitted in proper form or in due time will be rejected.
20. The offer shall be valid for a minimum period of 90 days from the date of opening of the tender.
21. Security Deposit shall be collected from the successful tenderer. 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 lakh + 7.5% of the amount exceeding Rs. 10 lakhs
Above Rs. 50 lakhs	Rs.4 lakhs + 5% of the amount exceeding Rs. 50 lakhs

22. The Security Deposit should be deposited before the start of the work by the contractor.
23. Security Deposit may be furnished in any one of the following forms.
 - a. Cash (as permissible under the Income Tax Act)
 - b. Pay Order, Demand Draft in favour of BHEL R&D.
 - c. Local cheques of schedule banks subject to realization.
 - d. Security available from Post Office such as National savings Certificate, Kissan Vikas Patras etc.
 - e. Bank Guarantee from schedules 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 from of security. The Bank Guarantee format should have the approval of BHEL R&D.
 - f. Fixed Deposit Receipt issued by scheduled Banks/Public Financial Institutions as defined in the companies Act. The FDR should be in the name of contractor, A/C BHEL R&D, duly discharge on the back.

- g. Security Deposit can also be recovered at the rate 10% from the running bills. However in such cases at least 50% of the security deposit should be deposited before the start of the work and the balance 50% will be recovered from the running bills.

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

Note: Acceptance of Security Deposit against Sl. No.(iv) and (vi) above will be adjusted to Hypothecation or endorsement on the documents in favour of BHEL R&D. However, BHEL R&D 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.

Security Deposit shall be refundable to the contractor in accordance with the terms of the contract mentioned below.

The 50% Security Deposit will be released along with final bill, balance will be released after 12 (Twelve) Months maintenance period.

25. Rs.60,000/- (Rupees Sixty thousand only) will be retained as EMD to keep the offer open for a period of 90 days from the date of opening of the tender; it being understood that the tender documents have been sold/issued to the tenderer and the tenderer is being permitted to Tender in consideration of the above stipulation on his part and that he shall not alter or modify the terms and conditions thereof in a manner not acceptable to DGM (Projects) Should the tenderer fail to observe or comply with the foregoing stipulation, the aforesaid amount of Rs.60,000/- (Rupees Sixty thousand only) shall be liable to be forfeited.

26. The under signed reserves the right to reject any or all tenders or part there of or to divide the work in to convenient groups and award the work to more than one agency. The under signed also reserved the right to allow to public enterprises preference facilities as admissible under the existing policy.

27. **BHEL reserves the right to go in for Reverse Auction.** All bidders must explicitly give their consent for reverse auction along with their technical bid. Modalities will be informed separately.

ISSUING OFFICER

I/We agree to above term and conditions.

AUTHORISED OFFICER (CONTRACTOR)



BHARAT HEAVY ELECTRICALS LTD
CORPORATE R&D, VIKASNAGAR,
HYDERABAD – 500 093.

TENDER NOTICE NO: CL/23/12-13 Dt. 17/05/2012

Sealed Tenders are invited by the DGM (PROJ.) from the reputed contractors experienced in similar work having valid PF No., IT, Service Tax, VAT/TIN, ESI, Labour License and registered with local PWD, CPWD, Railways, MES, BHEL, for the following works to be taken up at BHEL, Corp. R&D, Division, Vikasnagar, Hyderabad-500 093, so as to reach the DGM (PROJ.) Office, BHEL R&D Division, Vikasnagar, Hyderabad-500 093 up to 14-30 hours on the date mentioned against the Tender which will be opened on the same day at 14-45 hours in the tender room (SANGAM) near CTS building.

Sl. No	Description of Work	Estimated Value (Lakhs)	EMD (Rs.)	Cost of Tender document Rs.	Period of sale of tender document	Date of tender opening	Period of completion
1	Construction of Control room for 250 KWP SPV power plant in BHEL R&D Lab complex	27.72	60,000/-	500/-	31-05-2012 to 20-06-2012	21-06-2012	5 Months

Note:

1. Tenders received without EMD are liable for rejection.
2. Tender documents can be obtained, on the dates mentioned, from the office of the DGM (PROJ) BHEL (R&D) Division, Vikasnagar, Hyderabad - 500 093 during office hours on submission of application with proof of experience and copies of registration certificates, PF No. ESI, Sales Tax, service tax registration etc. Labour license shall be available and shall be produced prior to contract agreement.
3. The cost of tender documents will not be refunded and tenders are not transferable under any circumstances.
4. The under signed reserves the right to reject any or all tenders or part thereof or to divide the work in to convenient group and award the work to more than one agency. The under signed also reserves the right to allow to Public Enterprises preference facilities as admissible under the existing policy.
5. **Crossed demand drafts/Cash** for issue of tender documents shall be sent to the Accounts Officer, BHEL Corp. R&D Division, Vikasnagar, Hyderabad - 500 093. Cash may be remitted at our cash counter between 12.30 hours to 14.00 hours.
6. Contractors engaged at BHEL R&D shall pay Earnest Money Deposit. EMD will neither be adjusted against their pending bills nor be transferred from one work to the other.
7. The contract agreement will be in the form prescribed by BHEL R&D.
8. In case date of opening happens to be a holiday or Sunday, tenders will be received and opened on the next working day.

Sd/-
DGM (PROJECTS)

TENDERER AND CONTRACTOR'S CERTIFICATE

I / WE hereby declare that I have pursued in detail and examined closely the Central Public Works Department Detailed Standard Specifications and its addenda volume and also the BHEL General Conditions of Contract, I / WE agree to be bound by and comply with all specifications contained in CPWD Standard Specifications and BHEL General Conditions of Contract, for the various items of work specified in the "SCHEDULE - A" and the work as a whole.

I / WE hereby declare that I / WE shall pay the statutory minimum wages to my workers as applicable from time to time. I shall also adhere to all the statutory obligations under Contract labour (Regulation and Abolition) Act 1971 and Rules framed there under with subsequent revisions if any.

SIGNATURE OF CONTRACTOR(S)

Date:

SEAL:

DIRECTIONS TO PARTIES TENDERING

1. A list of materials proposed to be supplied by the BHEL along with the place and the prices at which they are proposed to be supplied is given in Schedule-B. TENDERER MUST ACCEPT THESE MATERIALS AT THE SPECIFIED PRICES AND QUOTE FOR FINISHED WORK ACCORDINGLY.
2. Any variation in market prices for these materials shall not change the agreed contract value.
3. In event of issue of materials, other than those specified in contract, by BHEL (for unforeseen reasons) at the request of the contractor for completion of the work, the materials would be charged at prevailing market value or at procurement price plus 12.5% handling charges whichever is higher.
4. The tenderer shall examine carefully the CPWD Detailed Standard Specifications and also the relevant clauses of the Standard Preliminary Specifications, available at office of DGM (PROJ), before submitting his tender unit rates for finished work in situ. The contractor is advised to purchase a book of CPWD Detailed Standard Specification for his reference. He shall also carefully study the drawings, additional specifications and all other documents which form part of the contract agreement.
5. Each tenderer must submit Annual IT -Return from income tax authority for past three years. In the case of proprietary or partnership firm it will be necessary to produce this certificate for the proprietor/s and for each of the partners as the case may be. All tenders received without a certificate as aforementioned will be summarily rejected.
6. Tenderer is expected to satisfy himself about the expected work, quantity and quality before quoting his rates by inspecting the site of the proposed work. He should also inspect the quarries and availability of materials. The best class of materials shall be used in proposed work. In every case, the materials must comply with the relevant standard specification. Samples of materials as called for in the standard specifications or in the tender notice or as required by the DGM (PROJ) shall be arranged by the tenderer. The material should be supplied to site after obtaining the approval from the Engineer In-charge. Attention of the contractor is directed towards the Standard 'Preliminary Specification' regarding payment of seignior age, tools etc.
7. Time shall be considered as essence of the contract. The rate of progress as indicated in Annexure-C shall be maintained. Date of commencement of this programme will be the date on which the site (or premises) is handed over to the contractor.
8. The tenderer should quote his minimum rates for each item of the schedule (in Rupees and paisa). Specific rate for each item shall be offered. The rates shall not be mixed or compounded. The units and rates should be written both in words and figures. In case of differences between quoted rate in figures and words, the lowest rate will be considered.
9. The enclosures/schedule accompanying the tender shall be written legibly, in **English**. No over writing, correction shall be made on documents. Unavoidable correction should be made by crossing out the wrong information and the corrections shall be endorsed and dated. Alteration without authentication by the tenderer in (i) the agreement form; (ii) the conditions of agreement and (iii) the drawing or specifications accompanying the same will not be recognized if corrected without endorsement. Any such alterations found in the tender shall disqualify the tender for acceptance.
10. The Tenderer shall not include any additional condition.
11. The Tenderer shall sign on each page of the tender schedule.
12. Rates quoted shall be firm throughout the period of contract.

13. Sub-contracting the work as a whole is not permitted.
14. The contractor should ensure HSE management and qualified, experienced site staffs are available at all times during working hours for proper supervision to maintain the quality.
15. The tenderer should submit the following within a week from the receipt of this order:
 - a) BAR/PERT/CPM chart for the execution of the work
 - b) Man power employed with designation
 - c) Week wise mobilization of material, and machinery
 - d) Weekly progress report along with consumption of material.
16. Rates quoted on overall offers are liable for rejection.
17. Rates quoted are inclusive of all taxes, except service tax.
18. BHEL's General Conditions of Contract as enclosed shall apply for this work.
19. Income Tax will be deducted as applicable.
20. Sales Tax will be deducted as applicable.
21. CESS or any other taxes at specified rates will be deducted as implemented by the State/Central Government from time to time.
22. Service tax, if applicable will be reimbursed on production of proof of payment.

ISSUING OFFICER

I/We agree to above term and conditions.

AUTHORISED OFFICER (CONTRACTOR)

DATE:

SEAL:

TENDER FOR THE WORK

I/We _____
Do hereby tender to execute works of the under mentioned description and in accordance with the conditions noted below in consideration of payment being made for the quantity of work actually executed at the respective rates specified in Schedule 'A' hereto.

I/We hereby distinctly and expressly declare and acknowledge that before the submission of my/our tender I/We have carefully followed the instructions in the tender notice and have read the CPWD Detailed Standard Specifications and the clauses of the Preliminary Specifications/BHEL General Conditions of Contract and that I/We have made such examination of the contract documents and of the specifications, etc and of the location where the said work is to be done and such investigation of the work required to be done, and in regard to the material required to be furnished as to enable me/us thoroughly understand the intention of the same and the requirements, convenient agreements, stipulations and restrictions; and distinctly agree that I/We will not hereafter make any claim or demand upon the BHEL, based upon or arising out of any alleged misunderstanding or misconception or mistake on my/our part of the said requirements, convenient, agreements, stipulations, restrictions and conditions”.

I/We enclose an income tax verification certificate _____
_____/_____
_____ I /We have already produced an income tax verification certificate during the current calendar year in respect of (here particular of the previous occasion on which the certificate was produced should be given). _____

I/We agree to keep the tender open for acceptance for Ninety (90) days from the date of submission thereof and not to make any modifications in its terms and conditions which are not acceptable to BHEL.

After the tender is accepted, if I/We fail to commence the execution of the works as provided in the conditions, I/We agree that BHEL shall without prejudice to any of their right or remedy, be at liberty to forfeit the said earnest money.

Signature of Contractor (S)
Address:

DATE :

SEAL:

AGREEMENT

M/s Bharat Heavy Electricals Limited (a Government of India Undertaking) a Company incorporated under the Companies Act.1956, having its Registered Office at BHEL House, Siri Fort, New Delhi-110 049 through its Unit/Division at Corporate Research & Development Division, Vikasnagar, Hyderabad-500 093 hereinafter called "the Company" (which expression shall unless repugnant to the context or meaning thereof be deemed to include its successors and assigns herein after called First Party) of one part and M/s _____ situated at _____ (here after called the contractor) of second part.

Whereas M/s Bharat Heavy Electricals Limited having placed Work order, vide LOI No. _____ (hereinafter called "Contract") for the work _____ at BHEL R&D Township, site at Vikasnagar, Hyderabad-93 of Bharat Heavy Electricals Limited, Corporate Research and Development Division, situated approx 9 KMs west of Secunderabad City, more particularly described in the schedule including drawings and specifications attached herewith on M/s _____ (hereinafter called the "Contractor") and the said contract made for the above said work.

AND WHEREAS the contract interalia provides that the contractor furnish to the Company a sum of Rs. _____ (Rupees _____ only) towards Security Deposit for due and faithful performance of the contract in the form and manner specified therein.

And whereas the contractor has agreed to the retention by the first party of the EMD of Rs. _____ (Rs. _____ only) paid by him when he submitted his tender as part of the security for the due fulfillments of the contract to the satisfaction of the first party.

And whereas the contractor has also persued the copy of the Central Public Works Department Standard Specifications and addenda volume, BHEL General Conditions of contract maintained in the Civil - Projects office and is bound by all the standard specifications for items of work described by a standard specifications numbers in "Schedule-A" and by all the conditions and clauses of the standard preliminary specifications detailed in the agreement.

And whereas the contractor has agreed to execute upon and subject to the conditions set forth in standard specification indicated in Schedule-A and in the standard preliminary specifications and such other conditions as are contained in all the specifications forming part of this contract (hereinafter referred to as the said conditions), the work shown upon the drawings and described in the said specifications and set forth in Schedule-A as the probable quantities and comply with the rate of progress, noted at Annexure-C.

Now these presents witness that in consideration of the "Schedule- A" as also of agreement of good and faithfully service to be rendered and performed by the contractor in the execution of the said work, subject to the stipulations hereinafter expressed.

Now it is hereby agreed as follows:

1. That the contract shall come into force with effect from _____ the date on which the site or premises was handed over to the contractor.
2. That it is agreed between the parties that the non-exercise of any of the powers conferred on the authorities of the first party, will not in any manner constitute waiver of the conditions hereto contained in these presents and the liability of the contractor either of part or future compensation shall remain unaffected.
3. That notwithstanding any thing mentioned earlier by either party, only the conditions included in the NIT and Agreement shall prevail.

4. That the expenses of completing and stamping the agreement shall be paid by the contractor.
5. The decision of the Company whether any default has been occurred or has been committed by the contractor in the performance, observance or discharge of any of the terms, conditions, stipulations or undertakings or any one of them as contained in the contract and/or to the extent of loss, damage, costs, charges and expenses caused to or suffered by the company by reason of the contractor making any default in the performance, observance or discharge of any of the terms, conditions, stipulations or undertakings or any one of them shall be conclusive and binding on, irrespective of the fact whether the contractor admits or denies the default or questions the correctness of any demand made by the company in any court, Tribunal or Arbitration proceedings or before any other Authority. In addition, the Contractor is also liable for legal action by the company for civil and or criminal consequences.
6. For Violation of terms and conditions of contract, 30 days notice will be given for termination of contract.
7. In the event of any dispute or difference between the parties while executing the contract, the same will be referred to the Arbitrator agreed upon by the both parties.
8. The award given by the arbitrator is binding on both parties.
9. The jurisdiction of courts for any claims is within in Hyderabad/Secunderabad.
10. The contractor will be responsible for complying with all the relevant statutory provisions under various Labour Laws viz, Contract Labour (Regulation & Abolition) Act 1970 Minimum Wage Act 1948, Employees Provident Funds and Misc. Provisions Act 1952, ESI Act 1948, Payment of Bonus Act, 1965, Workmen's Compensation Act 1923 and other relevant Acts. Further in case BHEL R&D as principal employer has to pay any amount to any agency for non-fulfillment of any of the provisions of the above referred Act, I/We authorize BHEL R&D to deduct the amount from my/our bills or I/We, will pay the amount of BHEL R&D.

SIGNATURE OF CONTARCTOR

DATE :

SEAL :

WITNESSES: 1.

2.

for and on behalf of,
Bharat Heavy Electricals Limited

ACCEPTING OFFICER

Schedule-A

**Name of work: Construction of Control Room for 250 kW
SPV Power Plant in BHEL (R&D) Lab Complex.**

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
1	Surface dressing of the ground including Removing vegetation and inequalities not Exceeding 150 mm deep and disposal of rubbish lead up to 50m. and lift up to 1.5 m. In all kinds of soil.	Sq.m	342.00			
2	Earth work excavating in foundations, trenches or drains not exceeding 1.50 m in width or 10 sq.m on plan including dressing of the sides and ramming of bottoms, lift up to 1.50 m including getting out the excavated soil & disposal of surplus soil as directed within a of 50m in all kinds of soils.	Cu.m	255.00			
3	Extra for excavating in foundations, trenches or drains not exceeding 1.5 m in width or 10 Sq.m on plan including dressing of sides and ramming of bottom, lift exceeding 1.5 m but not exceeding 3.0 M including getting out the excavated soil and disposal of surplus Earth as directed with in a lead of 50m in all kinds of soil.	Cu.m	35.00			
4	Excavation in hard rock or breaking of boulders by only chiseling using necessary machinery / plant required in all depths (payment will be made on the basis of stack measurement duly deducting 40% voids.)	Cu.m	1.00			
5	Felling of trees of girth (measured at a height of 1m above ground level including cutting of Trunks and branches removing the roots and stacking of serviceable materials and disposal of un-serviceable materials and including Burning etc complete beyond 60 cm girth up to and including 120cm girth.	Each	5.00			
6	Supply and filling with morrum brought from outside including Laying in layers not exceeding 200 mm in depth, watering and ramming and consolidating each deposited layer.	Cu.m	277.00			
Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount

7	Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 200 mm in depth consolidating each deposited layer by Ramming and watering lead up to 50 mm and lift up to 1.5m.	Cu.m	191.00
8	Inter carting of surplus excavated earth by mechanical transport including loading unloading spreading etc, complete with in 2 km lead.	Cu.m	244.00
9	Supplying and stacking of Chloropyriphos/Lindand emulsifiable concentrate of 20% in sealed containers to the site.	Litre	80.00
10	Diluting & injecting chemical emulsion of PRE CONSTRUCTIONAL antitermite treatment & creating chemical barrier under & allround the Column pits, top surface of plinth filling, Junction of wall and floor, expansion joints, surroundings of pipe and conduits etc, complete (plinth area of building at ground floor only Shall be measured) with chloropyriphos emulsifiable concentrate 20% with 1% concentration	Sq.m	213.00
11	Providing and laying in position cement concrete of mix 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size excluding the cost of centering, shuttering all works upto plinth level. Cement will be FREE supply.	Cu.m	53.00
12	Providing and laying cement concrete in mix 1:2:4 (1cement:2 coarse sand: 4 graded stone aggregate 20 mm nominal size) unto floor five level in retaining walls, return walls, walls including attached plasters, columns piers, abutments , pillars , posts, buttresses, strings or Lacing courses parapets ,copings, bed blocks Anchor blocks , plain window sills fillets etc. excluding the cost of centering, shuttering and finishing Cement will be FREE supply.	Cu.m	5.00
13	Providing and Laying M-20 grade Reinforced cement concrete in position machine mixed & machine vibrated design mix cement concrete For reinforced cement concrete elements, excluding the cost of centering, shuttering,	Cu.m	18.00

SI.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	Finishing and reinforcement. Including cost of					

admixtures in recommended proportions (As per IS 9103) to accelerate, retard setting time of concrete, improve workability & water proof-fang of the structure with out impairing stern-gut and durability as per directions of Engineer-in-charge in Footings , bases of columns, Up to plinth levels.

14 Providing and laying M 20 grade Reinforced cement concrete in position machine mixed & machined vibrated design mix cement concrete for reinforced cement concrete elements excluding the cost of centering, shuttering, finishing and reinforcement, including cost of Admixtures in recommended proportions (As per IS 9103) to accelerate, retard setting time Of concrete, improve workability & water proofing of the structure with out impairing stern-gut and durability as per directions of Engineer In- charge in walls, Columns, pillars, posts & Struts etc., complete in all floors Cement will be free supply.

Cu.m 16.00

15 Providing and Laying M-20 grade Reinforced cement concrete in position machine mixed & machine vibrated design mix cement concrete for reinforced cement concrete elements, excluding the cost of centering, shuttering, finishing, and reinforcement, including cost of admixtures in recommended preparation (As per IS 9103 to accelerate, retard setting time of concrete, improve workability & water proof-fang of the structure with out impairing stern-Goth and durability as per directions of Engineer in charge in Beams, Plinth beams, cantilevers,Suspended floors, lintels, chajjas, stair cases and shelves etc complete in all floors. Cement will be FREE supply.(32)

Cu.m 68.00

16 Providing and laying precast- reinforced cement concrete in trench covers including cost of required centering, shuttering, finishing and smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) in exposed surfaces complete but excluding cost of reinforcement with 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size)

Cu.m 1.30

SI.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
17	Providing centering and shuttering including shuttring, propping,etc. & removal of form	Sq.m	29.00			

Work after the specified time as directed by The engineer-in-charge only with steel shuttering (the extent possible usage of wood as To be avoided in construction activities) for Raft slab and footings and Machine foundations .

18	Providing centering and shuttering including shuttring, propping, etc and removal of from work after a specified time as directed by the engineer-in-charge (extent possible usage Of wood has to be avoided in construction activities) only using using only steel shuttering and columns,pillars,posts and struts in all floors.	Sq.m	210.00
19	Providing centering and shuttering including strutting, propping etc. and removal of from Work after a specified time as directed by the engineer-in-charge (extent possible usage of Wood has to be avoided in the construction Activities only with steel shuttering for lintels, Beams plinth beams, girders, bressummers and cantilivers in all floors.	Sq.m	354.00
20	Providing centering and shuttering including shuttring ,propping, etc. and removal of form work after a specified time as directed by the engineer-in-charge (extent possible usage of wood has to be avoided in construction activities) using only steel shuttering for suspended floors roofs,Landings, etc complete.	Sq.m	248.00
21	Extra for additional height in centering, shuttering wherever required with adequate bracing propping etc., including cost of de-shuttering and de - centering at all levels over a Height of 3.5 M for every additional height of 1 Meter of part there of (plan area to be measured) Suspended floors, Roofs, Landings, Beams and balconies.	Sq.m	243.00
22	Providing centering and shuttering including strutting,propping,etc and removal of form work after specified period as directed by the Engineer-in charge (Extent possible usage of wood has to be avoided in the construction activities using only steel shuttering for weath-	Sq.m	35.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	er shade, chajjas, cobles etc,. Including edges in all floors.					

23	Providing centering and shuttering including strutting,propping,etc and removal of form work after specified period as directed by the Engineer in charge (extent possible usage of wood has to be avoided in the construction activities using only steel shuttering for staircase etc,. Complete in all floors.	Sq.m	27.00
24	Reinforcement for RCC work including fabrication ,cutting, bending ,binding and placing in position etc, including cost of 18 gauge MS annealed binding wire in all floors. The steel required will supplied FREE of cost at central Stores.TOR / COLD TWISTED BRAS.	Kg	8570.00
25	Coursed rubble stone masonry (second sort) with hard stone in layers with suitable bond stone at 1 m intervals in each coarse in cement mortar 1:6 (1 cement:6 coarse sand) in basement or super - structure. Cement will be FREE supply.	Cu.m	86.00
26	Providing and laying AEROCON block masonry with 230mm thick blocks in cement mortar 1:6 [1 cement: 6 sand] with mixing of plasticiser all as directed by the engineer-in-charge with providing reinforcement in between layers as per the manufacturers recommendations and directions of engineer in charge etc complete in all floors [cement & steel are FREE issue.	Sq.m	109.00
27	Brick masonry in cement mortar 1:6 (1 cement 6 coarse sand) using of machine moulded brick displayed in office or equivalent quality as directed by the engineer-in-charge in all floors and basement. Cement will be FREE supply.	Cu.m	30.00
28	Half brick masonry in cement mortar 1:4 (1 cement: 4 coarse sand) with machine moulded bricks displayed in office or equivalent as directed by the engineer-in-charge with 2 nos. of m s. rods of 6mm dia.for every 5th coarse etc, but excluding the cost of m.s rods including the cost and conveyance of materials & labour charges in all floors. Cement will be FREE supply.	Sq.m	24.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
29	Providing wood work in frames of doors, windows & clerestory windows and other frames,wrought framed and fixed in position in second class indian teak wood.	Cu.m	0.37			

30	Providing and fixing 35mm thick skin door shutter with non decorative type with frame of 1st class hard wood the shutter has to be fixed with 1 No. Aluminium power coated handle, 1 No. tower bolt ISI mark stainless steel but hinges 100x58x1.9 mm 3 nos. To each shutter fitted with suitable nettle fold screws etc complete for single door shutter.	Sq.m	13.00
31	Providing and fixing galvanized steel sheet doors frame produced from 1.2 mm (18 G) thick galvanised sheet formed to single rebate profile of size 100 mm x 57 mm door leaves [shutter] single / double are constructed from 0.8 mm thick galvanized steel sheet form to provide a 46 mm thick fully flush double skin door shell with lock seam joints at stile edges in fill of honey comb kraft paper is to be used to give the required rigidity and effective acoustic & thermal insulation. Frame has to be fixed on plastered opening with the help of Anchor vision Vision glass has to be fixed with Unbreakable toughened glass of 5mm thick as per the size mentioned in the drawing. The door frames and shutters are to be finished with zinc phosphate primer and finished with thermosetting polyurethane paint of Aliphatic grade providing high level of scratch resistance & durability. Each door shutter has to be provided with SS ball bearing butt hinges 3mm thick fixed flush to the frame and shutter, mortise steel lock with lever handles mortise dead bolt, mortise latch has to be provided. For double door concealed extended level action flush bolts are to be provided on the top of the door to the leading stile edge.	Sq.m	8.40
32	Providing and fixing main entrance door all as per the drawing with following specification. All the partition box sections are made of 101 x 44 x 3 mm thick Aluminum sections powder coated with approved colour and shade. Door verticals will be with 47 x 44.5	Sq.m	8.40

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	x 3 mm door top & bottom will be with 95 x 44.5 x 3 mm. All the glass in partition will be provide with 5mm th. clear glass and door shutter glass has to be fitted with 8 mm th glass, partition glass and door glass has to be					

fitted with around rubber beading and heavy type aluminum powder coated clip beading on both and heavy type aluminium powder coated clip beading on both sides of glass, door shutter has to be fitted with 2 Nos of approved make floor springs with ISI mark, Door handles of approved desing & made Door stoppers, Concealed tower bolts, concealed Mortise lock of approved make and PVC beading around the door frame. Threaded Galvanized MS rod with bolt and nuts has to be provided inside the door members.

33	Providing and fixing 40 x 3 mm flat iron hold fast 400 mm long including fixing with 10 mm dia bolts, nuts and wooden plugs embedding in cement concrete block 30 x 10 x 15 cm 1:3:6 [1 cement : 3 coarse sand :6 stone aggregate 20 mm nominal size]	Each	36.00			
34	Providing & fixing aluminium sliding door bolt anodised transparent / dyed to required colour / shade with required no . of nettle fold screws etc. size 300 mm long x 16 mm dia.	Each	6.00			
35	Providing & fixing aluminium tower bolts anodised transparent or dyed to required colour or shade with necessary screws etc.,. Complete Size 200mm long x 10mm dia. [80]	Each	12.00			
36	Providing & fixing aluminium handles anodised transparent/dyed to required colour / shade with necessary screws, complete of size 125 mm. [81]	Each	24.00			
37	Providing & fixing aluminium hanging floor door stopper anodised transparent / dyed to required colour and shade with necessary screws etc., complete. Twin rubber stopper.	Each	12.00			
38	Providing and Fixing Two track Aluminium sliding window with mat finish exterior grade of powder coating with approved colour. Aluminium extreusions for two track windows	Sq.m	30.00			

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	are of JINDAL make sections No-8732 , 61.85 x 45.5 X 1.3mm as bottom track with gutter provision for rain water drain. Section no-8931 61.85 x 31.75 X1.5 mm as top and side track , section No-8820 40 X 18 X1.5mm as shutter bottom and top ,section No.8821b 40 x 26.7					

X1.5mm as shutter interlock and section no-8822 40 X 18 x1.5 mm as shutter handle side. Sliding panels are to be fitted with tinted glass of 4mm thick necessary rubber beading- ng necessary rubber beading etc complete. All the gaps around the windows are to be closed with silicon sealant.

39	Providing and Fixing Two track Aluminium partly sliding window partly with fixed glass 4 m th with mat finish exterior grade of powder coating with approved colour Aluminium extrusions for two track window are of JINDAL make sections No-8732,61.85x45.5X1.3 MM as bottom track with gutter provision for rain water drain. Section no-8931 61.85 X 31.75 X1.5 mm as top and side track , section No-88 20 40 X 18 X1.5mm as shutter bottom and top , section No-8821 40 x 26.7 x 1.5 mm as shutter interlock and section no-8822 40 X 18 X 1.5mm as shutter handle side. Sliding panels are to be fitted with tinted glass of 4mm thick necessary rubber beading etc., complete. All the gaps around the windows are to be closed with silicon sealant.	Sq.m	17.00
40	Providing and fixing M.S. Grills of approved design with powder coating of approved shade including cost of all materials, transportation and fixing etc., complete.	Sq.m	42.00
41	Providing and fabricating and installing the façade structural glazing for the flat, curved, and sloping surfaces with approved colour, polyester powder coated heavy duty aluminium extrusions of Jindal sections 64x57x2mm (with a flange of 15 mm]. This box section has to be used for both the mullion and the transum of the structural glazing system. Fixing of 6mm thick reflective glass of approved shade and make to frame with ultra glaze SSG 4000 of GE silicons or equivalent sealant including	Sq.m	9.00

SI.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	the providing polyethylene cross link foam spacer. The grooves between the glass panels are to be filled with weather sealant of silicon black RTV silicon of GE silicons or equivalent make to make it air tight water tight and dust free including cost of scaffolding, materials, labour etc. complete.					

42	Providing & fixing Aluminium ventilator with mat finish exterior grade of powder coating of approved colour with aluminium box section of 63 x 37 x 2 mm for the outer frame. Design should be as per the drawing. 4mm thick pin headed glass has to be fixed with 'U' shape beading for louvers. The ventilator has to be fixed to top & sides of the structure with coach screws and plugs etc., complete.	Sq.m	1.44
43	Fabrication, supply and fixing of motorised rolling shutter of approved design made of 18 G MS Lathes interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with bracket, side guides and arrangements for electrically operated rolling shutter with required no of springs, bottom plate re-inforced with 40 x 40 x 6 angle, guide channel 10 G processed section, MS top cover 1.25 mm thick etc., complete. The following electrical equipment are to be fitted to the rolling shutter.	Sq.m	8.90
44	Providing and laying 8mm thick vitrified ceramic tile flooring laid over 40 mm thick cement mortar 1:6 (1 cement : 6 coarse sand) and applying a cement slurry of 6.4kg/Sq.m for fixing the tiles. All the joints are to be grouted with matching colour grout of approved make. Flooring has to be maintained zero level. The final finished tile surface has to be cleaned with approved cleaning agents (Cement will be supplied by department at free of cost) all other material such as colour grout, sand, chips, are to be procured by contractor rate should include labour, transportation and lifting of all materials, tiles etc Complete. (736)	Sq.m	87.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
45	Providing & fixing 18mm to 20mm thick polished granite stone slabs (Icon brown / vizag blue) on a Cement mortar bed of 40 mm thick 1:6 (1 Cement: 6 coarse sand) and applying Cement slurry of 6.4 Kg/ Sq.m laid in design pattern as specified and jointed with matching tiles made of approved brand and shade including smoothing of edges etc., Compl-	Sq.m	11.00			

ete. Cement will be free supply.

46 Providing and fixing 18 to 20mm thick polished granite stone slabs [Steel Grey) on a cement mortar 1:6 [1 cement :6 coarse sand) of 40mm thick and applying cement slurry 64 kg / sqm laid on staircase steps & risers as specified & jointed with matching tile made of appd. Brand and shade. Three sides of tread tile has to be fully moulded and polished. Two anti skid lines are to be created at the end of steps. Cement will be free supply.

Sq.m 29.00

47 Providing and laying 10mm thick Antiskid vitrified Ceramic tiles flooring laid over 40mm thick cement mortar 1:6 (1cement : 6 Coarse sand)and applying a cement slurry of 6.4 kg / Sq.m fixing the tiles to the base mortar. All the joints are to be grouted with matching colour grout of approved make. Flooring has to be maintained zero level. The final finished tile surface has to be cleaned with approved cleaning agents att the material such as colour grout, sand, chips, labour, transportation and lifting of tiles has to be procured by contractor) cement will be free Issue (735)

Sq.m 34.00

48 Providing cement concrete flooring mix.1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement including slurry, rounding of edges and strips etc, complete of 100mm thick flooring.Cement will be FREE supply.

Sq.m 79.00

49 Providing and laying vaccum de-watered flooring to required level, surface vibration and vaccum de-watering using suction mats attached to vaccum pumps. The floor has to be finished by mechanical floating and trowell-

Sq.m 79.00

SI.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
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ing operation to required level, cutting of grooves at intervals as required with mechanised diamond wheel to create jstress release joint including cost of machinery, transportation, labour charges etc complete.

50 Providing cement concrete flooring mix.1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with

Sq.m 21.00

a floating coat of neat cement including slurry, rounding of edges and strips etc, complete of 40mm thick flooring. Cement will be FREE supply.

51 52 mm th cement concrete flooring with concrete hardner topping under layer 40 mm th cement concrete mix. 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix 2 graded stone aggregate 6 mm nominal size.) by volume hardening compound is mixed at 2 litre per 50 Kg of cement or as per manufactuers specification. This cement' including slurry, rounding of edges and strips etc, complete. Cement will be FREE supply.

Sq.m 12.00

52 Providing and fixing 8 mm thick 12" x 24" of size ceramic tile with anti-stain property [Johnson or equivalent make) on wall face on cement plaster of 12 mm thick cement mortar 1:3 [1 cement : 3 fine sand] tile are to be fixed with grey cement slurry over cement plaster and jointed with matching tile grout of approved brand and colour. Cleaning the finished surface with acid wash etc. complete. Cement will be issued free of cost.

Sq.m 52.00

53 Providing and laying 10 mm thick parking Antiskid Vitrified ceramic tile (Jhonsons endura or equivalent) flooring laid over 40 mm thick cement mortar 1:6 (1 cement :6 Coarse sand)and applying a cement slurry of 6.4 Kg /Sq.m for fixing the tiles . All the joints are to be grouted with matching colour grout of approved make. The final finished tile surface has to be cleaned with approved cleaning agents (Cement will be supplied by department at free of cost) etc complete.

Sq.m 21.00

SI.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
54	18mm thick cement plaster in two coats coats under layer 12mm thick cement plaster 1:5(1 Cement :5 Coarse sand) and a top layer 6mm thick cement plaster 1:3 (Cement : 3 Fine sand) of sponge finish in all floor. (Cement will be Free supply).	Sq.m	1870.00			
55	Providing and applying Two coats of BIRLA LAPPUM over plaster surface to make the	Sq.m	554.00			

surface even and smooth and sand papering
Two times to get even & smooth surface including curing etc. Complete.

56	Providing 20 mm thick Impervious plaster with Cement mortar 1:3 (1 cement : 3 Fine sand) finished with a floating coating of neat cement finish including mixing of Approved make liquid integral water proofing liquid This has to be added 200 ml for bag of cement or as per the manufactures instructions. applying a coat of "CERA LATEX SBR " (of CERA - CHEM) sterene butadine rubber or equivalent make of approved brand with water 1:1 and added with plain cement 2 Parts & brush applied on the concrete surface before impervious plaster. All the corners of slab columns & parapet are to be rounded in all floors (Cement will be FREE supply.	Sq.m	238.00			
57	18 mm thick sunk / raised mortar bands in cement mortar 1:4 (1 cement : 4 fine sand). Cement will be FREE supply.	Rm	68.00			
58	Providing and Fixing of decorative cornice in cement concrete all as per drawing.	Rm	68.00			
59	Applying and painting with plastic emulsion paint of approved brand & shade to give an even shade on new work two or more coats over a coat of cement primer of a approved brand.	Sq.m	1403.00			
60	Applying Two or more coats of delux Multisurface paint system " Uni gloss " of snow cem india or equivalent make paint for interiors & Exteriors over and including one coat of Primer (Snowcem plus or Equivalent) all as	Sq.m	755.00			

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	per manufacturers specifications including cost of all materials, labour scaffolding etc. complete.					
61	Providing and applying Cement based textured Exterior wall finish of approved design and make to the exterior surface of the design surface of the building all as per the manufactures instructions over final coat of plastering including applying approved colour/ Chemical coating. Cost will including	Sq.m	85.00			

all material scaffolding scrapping or cleaning finishing etc., complete.

62	Providing and Fixing Stainless steel railing all as per drawing including grouting the railing etc complete.	Sq.m	14.30
63	Reinforced cement concrete 1:4:8 (1 cement : 4 coarse sand ; 8 graded stone aggregate 20 mm nominal size) excluding cost of centring and shuttering and reinforcement in columns in all floors. Cement will be FREE supply.	Cu.m	2.10
64	Applying & finishing with synthetic enamel paint of approved brand and manufacturer of required colour to even and even shade, two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sq.m	113.00
65	Providing and fixing Mortise lock of approved make & designed	Each	5.00
66	Providing and fixing double action hydraulic floor spring of approved brand and manufacture as per IS 6315 marked , for doors including cost of cutting, floors as required embedding in floors and cover plates with brass pivot and single piece MS sheet outer box with slide plate etc complete as per the direction of Engineer in charge with stainless steel cover plate.	Each	2.00
67	Supply and Spreading of POP(Plaster of paris) material on the Vitrified and granite flooring for protection of the flooring. It has to be done in two layers. After applying First Layer thin plastic sheet has to be laid and apply	Sq.m	91.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	the second layer.After completing the all interior works entire POP has to be removed. Floor has to be cleaned with approved detergents .					
68	steel work welded in built up sections formed work including cutting hoisting, tiring in position and applying a primry coat of approved steel primer using structural steel etc as rewired in trench covers and side angles.	Kg	1116.00			

INTERIOR WORKS

1	Providing and fixing wall paneling using 35x50mm thick exterior grade plain particle board for horizontals and verticals placed at 600mm c/c & leveling to plumb with a gap of minimum 35 mm for running from electrical pipes etc. complete. Cladding has to be made with 12 mm th exterior grade water proof plywood of approved make. Plywood has to be pasted with 2 mm thick laminate of matallic shade of approved brand as per the design shown in the drg. Teakwood skirting of 100 mm x 25 mm has to be fixed to bottom of panels with natura I colour polish of approved shade.	Sq.m	18.00
2	supplying and fixing synthetic washable wall paper of approved make and design including fixing with necessary adhesives etc,. Complete	Sq.m	9.00
3	Providing and fixing in true horizontal level false ceiling grid of prelude XL system of M/s Arms trong OR equivalent make using Hot dipped galvanized steel section, exposed surface chemically leaned capping pre-finished in baked polyester paint, main tee of size 24 x32x 3000mm at every 600mm C/C, CROSS Tee of size 24 x 25 x 600mm at every 600 mm x 600mm and suspending the grid using 2 mm GI wire and 6 mm nylon rawal plug at every 1200mm intervals at the main tee and laying MINERAL FIBER ACOUSTIC CEILING BOARDS (fine fissured) of M/s. Ar- mstron or equivalent make having a fire rating of 60 minutes as per BS 476/23 of 1987, Noise reduction Co-efficient (NRC) of 0.50 to 0.55, sound attenuation of 34 dB, the-	Sq.m	64.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	ormal conductivity of K=0.052 w/m, Weight of 3.5kg/Sq.m and Humidity Resistance of RH-95 of size 600 mm x 600 x 15 mm over the formed grid.					
4	Providing & fixing India gypsum suspended false ceiling which includes pre - coated GI angle of size 24x24x0.9mm thick fixed to the brick wall/partition athe perimeter of celing with nylon sleeves and screws at 610 mm. centres. Then suspending main GI T section [bottom precoated] size 24x 38x0.7 mm and 360mm long from soffit in one direction with	Sq.m	62.00			

the help of metal rawl plug, soffit cleat and GI rod 4mm dia with galvanized spring steel level click 1220mm centers GI cross T section [bottom pre coated] size 24x38x0.7mm and 600mm long is insert fixed into the slots provided in the main T at 600 mm centers to form 600x600mm grid. Providing and laying 12.5 m m thick gypboard tiles with metalised polyester film backing tiles of size of 595 x 595 mm can be laid on to grid. PVC universal holding clips are to be placed on sealing panel in each direction. i.e, 4 clips for panel. Frame for light fitting have to be made with cross T section cut and bend fixed with steel screws to the main T section to form suitable size of the light openings.

5	Providing & fixing underdeck insulation below roof slab in the form of 50 mm thick T quality expanded polystyren shee t having density of 16kg/cum with non flammable fold sticking compound/blow n bitumen grade 85/25. The EPS sheet shall be tied with lacing wire and GI washers made 24 G GI sheet to 10 mm dia and 25mm long rawl plugs /screws fixed to the roof before sticking to the EPS sheets and secure tightly to the unde r side of roof.	Sq.m	107.00
6	Applying and painting with plastic emulsion of approved brand & shade to give an even shade on gyp board ceiling, wall panelling , & partitions work tow ro more coats over a coats over a coat of cement primer of approved brand.	Sq.m	62.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
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SANITARY AND WATER SUPPLY

1	Providing and fixing WATER CLOSET SQUATTING PAN (INDIAN TYPE W.C. PAN) with 100mm SCI P or S trap, 10 litre low level white PVC flushing cistern with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete including cytting and making good the walls and floors wherever rewuired an of type: white vitreous orissa pattern W.C pan of size 589 x 440mm	Each	1.00			
2	Providing and fixing WHITE VITREOUS CHINA	Each	1.00			

WATER CLOSET PEDESTAL TYPE (EUROPEAN TYPE W.C PAN) with seat and lid, 10 litre low level white P.V.C flushing cistern with manually controlled device (handle lever)Conforming to IS - 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required, with W.C pan with ISI marked white solid plastic seat and lid.

3	Providing and fixing WASH BASIN with C.I brackets, 15mm C.P brass pillar taps 32mm C.P brass waste of standard pattern including painting of fittings and brackets, cuttings and making good the walls, wherever required, of type; white Vitreous china wash basin size 630 x 450mm with a PAIR of 15mm C.P brass pillar taps.	Each	3.00
4	Providing and Fixing Senso Urinal of M/S Hind ware in approved colour of size 610 mm x 390 mm x 375 mm with battery operated sensor etc complete.	Each	1.00
5	Providing and fixing 600 x 450 mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers etc, complete.	Each	2.00
6	Providing & fixing CP brass towel rail 600mm x 20 mm size complete with brackets fixed to the wooden cleats with CP brass screws.	Each	2.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
7	Providing and fixing TRAP of self cleansing desing with screwed down or hinged graing with or without vent arm etc. complete, including cost of cutting and making good the walls and floors etc. with : 100 mm inlet and 100mm outlet with SCI S&S.	Each	5.00			
8	Providing and fixing 18 mm thick granite slab of gang saw mirror polishing premouled and prepolished machine cut for urinal partition of required size of approved shade, colour layed over 20 mm thick base cement mortar 1:4 [1 cement : 4 coarse sand] with joints treated with maching colour pigment epoxy tou-	Sq.m	1.00			

chups, including rubbing, curing, moulding & polishing to wedge to give high galss finish etc complete at all levels.

9	Providing and fixing three layer PP-R [poly propylene random copolymer] pipes SDR 7.4 UV stabliized and anti-micro bio fusion weld-ed having thermal stability for hard and cold water supply includng all PPR plane and bra-ss threaded poly propylene random fittings including fixing the pipe with clamps at 1 m spacing. The includes the cost of cutting, cha-ses and making good the same including the cost of complete, as per direction of Engin-eer-in-charge. For PN-16 pipe 15 mm OD.	Rm	30.00
10	Providing and fixing three layer PP-R [Poly propylene random copolymer] pipes SDR 7.4 UV stablized and anti-micro bio fusion wel-ded having thermal stability for hard and cold water supply including all PP-R plane and bra-ss threaded poly propylene random fittings including fixing the pipe with clamps at 1 m spacing. This includes the cost of cutting, chases and making good the same including testing of joints complete. As per direction of Engineer-in charge. For PN-16 pipe 20mm OD.	Rm	20.00
11	Providing and fixing three layer PP-R [Poly propylene random copolymer] pipes SDR 7.4 UV stablized and anti-micro bio fusion wel-ded having thermal stability for hard and cold water supply including all PP-R plane and bra-ss threaded poly propylene random fittings	Rm	20.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	including fixing the pipe with clamps at 1 m spacing. This includes the cost of cutting, chases and making good the same including testing of joints complete. As per direction of Engineer-in charge. For PN-16 pipe 25mm OD.					
12	Providing and fixing three layer PP-R [Poly propylene random copolymer] pipes SDR 7.4 UV stablized and anti-micro bio fusion wel-ded having thermal stability for hard and cold water supply including all PP-R plane and bra-ss threaded poly propylene random fittings including trenching, refilling, and testing of joints etc complete as per direction of Engin-eer-in-charge, for PN-16 pipe 50 mm OD.	Rm	10.00			

13	Providing and fixing CP BRASS STOP COCK of standard desing and of approved make conforming to IS 8931 for nominal bore of 15mm.	Each	3.00
14	Providing and fixing CP BRASS BIB COCK of approved quality and nominal bore of 15 mm	Each	3.00
15	Providing and fixing GUN METAL VALVE with CI wheel of approved quality (screwed end) and nominal bore of -50 mm	Each	1.00
16	Providing and fixing GUN METAL VALVE with CI wheel of approved quality (screwed end) and nominal bore of -25 mm	Each	1.00
17	Providing, laying and jointing GLAZED STONE WARE PIPES of GRADE "A" with stiff mixture of cement mortar in the proportion of 1:1 (1 cement 1 fine sand) including testing of joints etc. complete, of 100 mm dia.	Rm	60.00
18	Providing and fixing square S.W gully trap grade "A" complete with C.I grating brick masonary chamber with bricks and water tight C.I cover with fram of 300 x 300 mm size, (inside) the weight of cover to be not less than 4.5 Kg and fram to be not less than 2.7 Kg. as per standard design: 125 x 100 mm size with "P" type trap.	Each	3.00
19	Construction brick masonary manhole locally available best quality of bricks in cement mortar 1:5 (1 cement : 5 fine sand) R.C.C top	Each	1.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	slab with 1:2:4 (1 cement ; 2 coarse sand : 4 graded stone aggregate 20 mm niminal size) foundation concrete 1:4:8 (1 cement :4 coarse sand :8 greded stone aggregate 40 mm nominal size) inside plastering with 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating cot of neat cement and making channels in 1:2:4 cement concrete (cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size)neatly finihsed complete as per standard type design. Inside size90 x 80 CM & 45 CM deep including C.I cover with frame 455 x 610 mm internal dimensssions total weight of cover and frame to be not less than 38 Kg (cover 23 Kg & frame 15 Kg) cement will be free supply.					

20 Construction brick masonry manhole locally available best quality of bricks in cement mortar 1:5 (1 cement : 5 fine sand) R.C.C top slab with 1:2:4 (1 cement ; 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) inside plastering with 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating cot of neat cement and making channels in 1:2:4 cement concrete (cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size)neatly finished complete as per standard type design. Inside size 90 x 80 CM & 60 CM deep including C.I cover with frame 455 x 610 mm internal dimensions total weight of cover and frame to be not less than 38 Kg (cover 23 Kg & frame 15 Kg) cement will be free supply.

Each 1.00

21 Construction brick masonry manhole with specified bricks in cement mortar 1 : 4 (1 cement : 4 fine sand) R.C.C top slab with 1:2:4 mix (1 cement ; 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) inside plastering with 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating cot of neat cement and making channels in 1:2:4 cement concrete (cement :2 coarse sand : 4 graded stone

Each 1.00

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
	aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard desing etc with and of inside size 120 x 90 cm and 90 cm. deep including CI cover with frame (heavy duty) 560 mm internal diameter toatla weight of cover and frame to be not less than 208 Kg (weight of cover 108 Kg & weight of frame 100 Kg) etc. with locally available best bricks					
22	Providing and fixing on wall face UNPLASTICIZED RIGID PVC RAIN WATER PIPES conforming to IS: 13592 Type-A including jointing with seal ring conforming to is: 15382 leaving 10m gap for thermal expansion single socketed pipes etc. for 110 mm dia	Rm	36.00			
23	Providing and laying 110 mm dia UV resistant	Each	4.00			

SWR grade PVC pipe (sudhakar/prince superme) in all height including the cost of fittings, solution for fixing PVC pipe plain bend etc,. complete.

24 Providing and laying 100 mm dia UV resistant SWR grade PVC pipe (sudhakar/prince superme) in all height including the cost of fittings, solution for fixing PVC pipe and MS clamps etc. complete. Mr. 15.00

25 Providing and laying 75 mm dia UV resistant SWR grade PVC pipe (sudhakar/prince superme) in all height including the cost of fittings, solution for fixing PVC pipe and MS clamps etc. complete. Mr. 15.00

26 Providing and laying 100 mm dia UV resistant SWR grade PVC pipe (sudhakar/prince superme) in all height including the cost of fittings, solution for fixing PVC pipe door bend etc,. complete. Each 4.00

27 Providing and laying 75 mm dia UV resistant SWR grade PVC pipe (sudhakar/prince superme) in all height including the cost of fittings, solution for fixing PVC pipe door bend etc,. complete. Each 4.00

28 Providing and laying 100 mm dia UV resistant SWR grade PVC pipe (sudhakar/prince super-

Sl.No	Description of Item	Unit	Quantity	Rate in figure	Rate in words	Amount
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me) in all height including the cost of fittings, solution for fixing PVC pipe plain bend etc,. complete.

29 Providing and laying 75 mm dia UV resistant SWR grade PVC pipe (sudhakar/prince superme) in all height including the cost of fittings, solution for fixing PVC pipe plain bend etc,. complete. Each 4.00

30 Supply and erection of P.V.C water tank of approved make over roof stab in all heights including transportation and handling etc,. complete. Ltr 2000.00

TOTAL AMOUNT

Note:

- 1 Cement, Mild steel and Tor steel required theoretically will be supplied for free of cost at BHEL R&D Stores
- 2 Excess / short consumption of above said material will be accounted at panel recovery at the time of FINAL / RUNNING BILL as per norms of CPWD schedule specifications.

3 The Panel recovery rate for CEMENT.		Rs.	4600.00	Per M.T
	MILD STEEL	Rs.	44000.00	Per M.T
	TOR STEEL	Rs.	44000.00	Per M.T

CONTRACTOR(S)

ACCEPTING OFFICER

SCHEDULE – 'B'

ISSUE OF STORES TO THE CONTRACTOR

SL. No	Particulars	Unit	Issue Rate
			Rupees
1.	Cement non-refundable bags	M.T.	FREE
2.	Mild steel rounds all diameters	M.T.	FREE
3.	Tor steel/Ribbed steel all diameters	M.T.	FREE

- A. The materials listed above will be issued from BHEL/R&D/Stores. It will be the responsibility of the contractor to submit his demand for stores in writing at least seven days in advance of the actual requirement.
- B. Issue of all stores is subject to the extent of their availability at the place of issue noted above. The Contractor should make his own arrangements for any or all of the materials shown above in case the BHEL desires so. The contractor shall not be entitled to any claim or compensation for non supply of the materials or delay in the supply of stores under any circumstances.
- C. The materials will be issued only during the working hours on Tuesday and Friday. The Contractors shall have to transport them to site of work at his own cost as soon as these are issued to him.
- D. Where cost of stores issued, if any, is recoverable from the contractor, recoveries will be made from the running bills for the gross quantity issued and not on actual consumption on the basis of the net measured quantity on finished work.
- E. The contractor shall, from time to time, render proper accounts of all materials issued to him by BHEL. If contractor fails to do so, no further issued of the materials will be made to him and he shall be held responsible for any delay in the execution of the work which may occur on this account.
- F. Only Cement, Mild Steel & Tor-Steel items are issued free of cost to the contractor the contractor will have to make good at his own cost any loss or damage to part or whole of the item issued to him as above.
- G. All surplus materials whether issued free of cost or on cost or on cost recovery basis are to be returned to the BHEL stores in good Condition. Quantities of materials consumed in excess of the actual requirement shall be charged for at punitive rates as listed below.

The decision of the Sr. Engineer/Manager (Civil) as to the extent to which materials have been rendered surplus have been consumed in excess of the actual requirements shall be final and binding on the contractor.

H. **CEMENT:**

For the purpose of determining the actual requirement of cement, the theoretical consumption of cement as per CPWD norms shall be considered by the Sr. Engineer/Manager (Civil). As per CPWD norms the following are the variation allowed in Cement consumption.

A > Work costing upto Rs. 2,00,000-00	: +/-5%
B > Work Costing from Rs. 2,00,000-00 to Rs.5,00,000-00	: +/-4%
C > Work costing above Rs. 5,00,000-00	: +/-3%

STEEL:

Steel will be issued by weight duly weighing at Store as stocked by Bharat Heavy Electricals Ltd., The surplus steel is represented by the difference between the quantity received and the quantity required and utilised on the work with an allowance of 5% towards scrap. The contractor will be responsible for removal of scrap from the site in good time as Directed by the Sr. Engineer/Manager (Civil). The cut pieces retained as scrap shall be short than one metre in length.

Any variation in weight of steel issued should be brought to the notice of the Engineer/Manager (Civil) without any delay in writing for consideration.

PUNITIVE RATE FOR EXCESS / SHORT CONSUMPTION

1. CEMENT	Rs. 7,500-00 per M.T
2. MILD STEEL	Rs. 75,000-00 per M.T
3. TOR STEEL	Rs. 75,000-00 per M.T

SIGNATURE OF CONTRACTOR(S)

ACCEPTING OFFICER

SCHEDULE 'C'

SERVICES VIZ, WATER & LIGHTING TO THE CONTRACTOR

1. WATER:

Water required for construction purpose shall be supplied by Bharat Heavy Electricals Limited. The supply will be made at convenient point to be determined by the DGM (PROJ) and contractor has to make his own arrangements to distribute the water to places where required including cost of providing and fixing water meters. The charges for the consumption of water will be as under, where meters could not be provided by the contractor and prior permission for the same was obtained in writing from Manager (Civil).

i) On the water consumed items of the work of periodical maintenance of buildings	0.25%
ii) On the water consumed items of the road works	0.75%
iii) On the water consumed items of the other Civil Works	0.50%

2. POWER:

Electric power, if required, will be supplied at a convenient metered point, to be selected by Engineer-in-Charge Any extensions required will have to be arranged by the contractor himself. Energy consumed will be metered and charged at Rs. 5.50 (Rupees five and paise fifty only per unit).

SIGNATURE OF CONTRACTOR(S)

ACCEPTING OFFICER

SCHEDULE 'D'

TOOLS AND PLANT TO BE HIRED TO THE CONTRACTOR

(See Conditions 14 & 34A)

Sl. No.	Particulars	Number available	Hire charges per Unit per Working day Rs.	Frequency of maintenance	+value per unit	place of issue	Number required by
1	2	3	4	5	6	7	8

Signature of Contractor _____

Signature of Issuing Officer _____

Date: _____

Date: _____

Note:

1. The tenderer shall indicate in column 8 the number required by him subject to the maximum indicate in column 3.
2. Column 6 is not to completed if condition 34 A committed from the General Condition of Contract.

SPECIAL CONDITIONS OF CONTRACT

- 1 THAT the contractor shall undertake to maintain the following registers as per prescribed Proforma
 - 1.1 Register of workmen (Form xiii)
 - 1.2 Muster Roll (Form xvi)
 - 1.3 Wages Register (Form xvii)
 - 1.4 Leave Register
 - 1.5 Register of Over time and deductions

- 2 THAT the company after proper checking of the bills submitted by the said contractor will pay to him during the progress of the said work, at the said contract rates and agreed terms of payment, a sum as determined by the company in respect of the work executed by the contractor.

- 3 THAT the contract shall come into force with retrospective effect from..... the date on which the letter accepting the tender (letter of Intent) has been communicated to the said contractor.

- 4 THAT whenever under this contract or otherwise any sum of money shall be recoverable from or payable by the contractor the same may be deducted in the manner as set out in the conditions of contract as aforesaid.

- 5 THAT all charges on account of Octroi, Terminal and Sales-Tax other duties on materials obtained for the works shall be borne by the said contractor.

- 5.1 It is also agreed between parties that the second party to the contract will ensure adherence to all statutory requirements under the State Rules in respect of service conditions for the employment of contract labour. The second party also hereby undertakes to get himself licensed from the appropriate authority as a contractor in accordance with A.P. Contract Labour (R&A) Rules, 1971. It is understood by the second party that for this agreement to be effective, the prime condition is his fulfilling the condition being licensed as a contractor under the state Legislation and the continuance of the agreement is subject to his sustained ensurance of the agreement is subject to his sustained endurance of fulfillment of all statutory requirements including those contained in Labour Commissioner's Notification No.8385/79 in respect of employment conditions for contract labour and payment of wages as specified by the State Government. Further as and when there are changes in the service conditions/wages rates for contract labour, as notified by the State Labour Department, the same will be implemented even if the said modification is given at any time after the conclusion of the Agreement. Any violation in respect of absorbance of statutory requirement under the contract Labour (Regulation and Abolition) Act 1970, will make the Agreement liable for immediate termination in regard to paid holidays, the contractor will observe BHEL list of holidays as notified from time to time.

- 5.2 The Contractor shall ensure abidance by all the labour laws especially including contract Labour (R&A) Act, payment of wages, Workmen's Compensation Act, Minimum wages Act, as amended from time to time.

- 5.3 The contractor will obtain a separate provident fund code for his establishment and ensure implementation of provident fund Act in the case of all eligible employees and in the process shall conform to all the stipulated conditions under the PF Act and rules framed there under.

- 5.4 Notwithstanding clause (c) above in case of any financial loss incurred by the company on account of the contravention of the provident fund regulations or any regulation of rules touching the same by the contractor, the contractor shall undertake to indemnify the company to the extent of the loss incurred by the company.

- 6 THAT the contractor shall be **solely responsible for the safety** and good conduct of the staff employed/ deputed by him at site. BHEL shall not have any obligation toward compensation or otherwise towards any incident, mishap etc.
- 7 THAT it is agreed between the parties that the non-exercise of any of the powers conferred on the Authorities of the company, will not in any manner constitute waiver of the conditions here to contained in those presents and the liability of the said contractor either of past or future compensation shall remain unaffected.
- 8 Any claim or dispute arising under the terms of this document shall only be enforced or settled at any courts located at Hyderabad / Secunderabad / Rangareddy only.
- 9 THAT the expression BHEL wherever occurring means THE BHARAT HEAVY ELECTRICALS LIMITED, Corporate R&D Division Hyderabad-500 093 (Andhra Pradesh)

CONTRACTOR (S)

ACCEPTING OFFICER