

**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 4494

FAX : (040) 2377 6320

EMAIL: Chandra@bhelrnd.co.in

TENDER NOTICE NO.: CL/09/10-11 DATED: 27-08-2010

- | | | |
|---|--|---|
| 1 | Name of work: | Construction of building for Nano Technology Centre in BHEL R&D Lab complex. |
| 2 | Earnest Money Deposit (EMD): | Rs.1,50,000.00 |
| 3 | Time of completion: | EIGHT (8) Months |
| 4 | Maintenance period: | 12 Months |
| 5 | Last date of receipt of tenders: | 29.09.2010(14.30 Hrs) |
| 6 | Tender Opening Date/Time: | 29.09.2010 (14.45 Hrs) |
| 7 | Cost of tender documents (Including S.T.): | Rs.1000.00 |

Name & Address of the contractor/Agency:

:
EMD PARTICULARS -----

TENDERING PROCESS

- A. Tender box is kept at Security Control Room for receiving Tenders.

- B. Tenders would be received in two-part 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 technically qualified 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 with 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/ item number for which offer is submitted shall also be clearly written on the 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 etc will be rejected.
2. Technical-bids will be scrutinised on opening of Technical-bid. In case 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. In case 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 favor of sole proprietor or individual would be 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:** At a rate of 0.50 % of the contract value per week will be levied subject to a maximum penalty of 5 % contract value.
8. **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.**

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/09/10-11 DATED :27-08-2010
NO.

DATE & TIME OF CLOSING OF SALE OF 27-09-10 13 : 00 HRS
TENDER DOCUMENTS

DATE & TIME OF OPENING TENDER 29-09-10 14 : 45 HRS

COST OF TENDER DOCUMENT : Rs.1,000.00

EARNEST MONEY DEPOSIT (EMD): Rs.1,50,000.00

NAME OF WORK : **Construction of building for Nano Technology Centre 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/09/10-11, Sealed Tenders are invited by AGM (PROJECTS), Bharat Heavy Electricals Ltd., Corporate Research & Development Division, Vikasnagar, Hyderabad-93 up to 14-30 Hours on 29-09-2010 for the work of

**Construction of building for Nano Technology Centre 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 AGM (PROJ).
3. Tender forms and other particulars regarding the proposed work can be obtained at the office of the AGM (PROJ) on any working day from 9:00AM to 1:00 PM up to 27.09.2010 on payment of the prescribed sum of Rs.1,000.00 (Rs. One Thousand only) per set, not refundable.
4. The Tenders will be opened by the AGM (PROJ) 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 as issued from the Office of the AGM (PROJ).
6. Tenders must be submitted in sealed covers (one for each bid) addressed to AGM (PROJ), Bharat Heavy Electricals Ltd, Corporate R&D, Vikasnagar, Hyderabad-500593. The Tender Notice No. and the name of the work shall be indicated on 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 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 a sum of Rs.1,50,000/- (Rs. One Lakh fifty thousand Rupees 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 AGM (PROJ) for tender related clarifications as per written/oral intimation to him.
12. The successful tenderer shall make himself available at the office of AGM (PROJ.) 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:
 - i) After opening the tender, the tenderer revokes his tender within the validity period or increased his quoted rates.
 - ii) The tenderer does not commence the work the period as per LOI/Contract. In case the LOI/contract is silent in this regard then within 15 days after award of contract.
14. 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.
15. AGM (PROJECTS) reserves the right to reject any tender or part thereof or all the tenders with out assigning any reasons thereof.
16. Tenders offering a percentage deduction or increase on the estimate amount and those not submitted in proper form or in due time will be rejected.
17. The offer shall be valid for a minimum period of 90 days from the date of opening of the tender.
18. 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

19. The Security Deposit should be deposited before the start of the work by the contractor.
20. 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 form 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.
21. 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.

22. Rs.1,50,000/- (Rupees One Lakh fifty 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 AGM (PROJ.) Should the tenderer fail to observe or comply with the foregoing stipulation, the aforesaid amount of Rs. 1,50,000/- (Rupees One Lakh fifty thousand only) shall be liable to be forfeited.
23. 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.
24. 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/09/10-11 Dt. 27/08/2010

Sealed Tenders are invited by the AGM (PROJ.) from the reputed contractors experienced in similar work having valid PF No., ESI, Labour License from Central Govt. 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, The Tenders are to be submitted in the Projects department, Tender Box (Red colour) placed at security control room, upto 14-30 Hours and will be opened at 14-45 hours in the tender room (**SANGAM**) near CTS building, on the dates mentioned below.

Sl. No	Description of Work	Estimated Value (Lakhs)	EMD (lakhs)	Cost of Tender document, Rs.	Period of sale of tender document	Date of tender Submission/opening	Period of completion
1	Construction of COE NANO Technology Centre including interiors in BHEL R&D complex	98.07	1.50	1,000.00	31-08-10 to 27-09-10	29-09-10	8 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 AGM (PROJ) BHEL (R&D) Division, Vikasnagar, Hyderabad-93 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.

AGM (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 AGM (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 AGM (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 seigniorage, 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.

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 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. Rates quoted shall be exclusive of applicable taxes, octroi, transport etc.
11. ALL taxes, octroi charges, transport etc shall be quoted separately.
12. BHEL's General Conditions of Contract as enclosed shall apply for this work.
13. Income Tax will be deducted as applicable.
14. Sales Tax will be deducted as applicable.
15. CESS or any other taxes will be deducted as implemented by the State/Central Government from time to time.
16. 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 lab complex, 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 Security Deposit 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 perused the copy of the Central Public Works Department Standard Specifications and addenda volume, BHEL General Conditions of contract maintained in the Senior Engineers 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 CONTRACTOR

DATE :

SEAL :

WITNESSES: 1.

2.

for and on behalf of,
Bharat Heavy Electricals Limited

ACCEPTING OFFICER



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

Schedule - A

Name of the work: Construction of building for Nano Technology centre in BHEL(R&D) Lab Complex.

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150mm deep and disposal of rubbish lead upto 50m. and lift upto 1.5m. in all kinds of soil.	1375.0	Sq.m			
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 upto 1.50 m including getting out the excavated soil and disposal of surplus soil as directed within a lead of 50m in all kinds of soils.(3)	630.7	Cu.m			
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 1.5m but not exceeding 3.0M including getting out the excavated soil and disposal of surplus earth as directed with in a lead of 50M in kinds of soil(17).	148.6	Cu.m			
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.)(4)	5.0	Cu.m			
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 60cm girth up to and including 120cm girth.(7)	20.0	Each			
6	Supplying & filling with sand under floors & plinths in layers not exceeding 200mm including watering and	16.7	Cu.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	ramming each deposited layer.(11)					
7	Supply and filling with morrum brought from outside including Laying in layers not exceeding 200mm in depth, watering and ramming and consolidating each deposited layer.(12)	373.7	Cu.m			
8	Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 200mm in depth, consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.(10)	473.0	Cu.m			
9	Inter carting of surplus excavated earth by mechanical transport including loading un loading spreading etc, complete with in 2 km lead.(13)	243.8	Cu.m			
10	Supplying and stacking of Chlorpyriphos/Lindane emulsifiable concentrate of 20% in sealed containers to the site .(19)	250.0	litre			
11	Diluting & injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment & creating chemical barrier under & around 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 chlorpyriphos emulsifiable concentrate 20% with 1% concentration . (14)	848.25	Sq.m			
12	Providing and laying in position cement concrete of mix 1:4:8(1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) excluding the cost of centering , shuttering- all works upto plinth level. Cement will be FREE supply(23)	187.20	Cu.m			
13	Providing and laying cement concrete in mix 1:2:4 (1 cement:2 coarse sand :4 graded stone aggregate 20 mm nominal size) upto floor five level in retaining walls, return walls, walls including attached pilasters, 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,	5.48	Cu.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	shuttering and finishing . Cement will be FREE supply.(22)					
14	Providing and Laying M-20 grade Reinforced cement concrete in position machine mixed and 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 proportions (As per IS 9103) to accelerate, retard setting time of concrete, improve workability & Water proofing of the structure with out impairing strength and durability as per directions of Engineer -in-charge in Footings ,bases of coloums, up to plinth levels.(26)	86.03	Cu.m			
15	Providing and laying M20 grade Reinforced cement concrete in position machine mixed and 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 strength and durability as per directions of Engineer in charge in Walls , Columns, pillars, posts and struts etc., complete in all floors Cement will be free supply. (31)	44.73	Cu.m			
16	Providing and Laying M-20 grade Reinforced cement concrete in position machine mixed and 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 proportions (As per IS 9103 to accelerate, retard setting time of concrete, improve workability & Water proofing of the structure with out impairing strength 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)	235.93	Cu.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
17	Reinforced Cement Concrete work in SHELVES excluding the cost of Centring and shuttering and Reinforcement with 1:2:4 (1 Cement : 2 Coarse sand :4 graded stone aggregate 20mm nominal size . Cement will be FREE supply.(43).	12.80	Cu.m			
18	Providing and laying design mix cement concrete in roads, taxi tracks and runways having a minimum works test beam flexural strength of 30 kg. per sq.cm. at 28 days using not less than 340 kg. of cement per cum of finished concrete, coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per specified design criteria approved by Engineer-in-Charge mechanically vibrated using needle and surface vibrators including steel from work with sturdy MS channel sections including curing and providing and filling construction joints and dummy joints with approved joint filler and primer including rounding of the edges and filling the grooves 10x25mm deep at top for construction joints and 10mmx50mm deep at top for dummy joints with joint sealing compound [conforming to grade B of IS:1834] including making necessary arrangements for expansion joints etc. all complete.	48.00	Cu.m			
19	Providing centering and shuttering including strutting, propping, etc. & removal of form work after the specified time as directed by the engineer-in-charge only with steel shuttering (the extent possible usage of wood has to be avoided in construction activities) for raft slab and footings and Machine foundations.(48)	137.53	Sq.m			
20	Providing centering and shuttering including strutting, 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) only using using only steel shuttering for columns, pillars, posts and struts in all floors.(49)	546.60	Sq.m			
21	Providing centering and shuttering including strutting, propping etc. and removal of form work after a specified time as directed by the engine-	1108.5	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	er-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 cantilevers in all floors.(50)					
22	Providing centering and shuttering including strutting ,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.(51)	757.0	Sq.m			
23	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 thereof (plan area to be measured)in Suspended floors, Roofs, Landings, Beams and balconies.(55)	739.0	Sq.m			
24	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 Weather shade, chajjas , Cobels etc,. including edges in all floors. (46)	133.20	Sq.m			
25	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. (46)	36.60	Sq.m			
26	Providing centering and shuttering including strutting, propping, etc and removal of form work after specified period as directed by the Engineer in charge for pockets in machine foundations. (46)	7.68	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
27	Reinforcement for RCC work including fabrication, cutting, bending binding and placing steel in position etc, including the cost of 18 gauge MS annealed binding wire in all floors. The steel required will be supplied FREE at Central Stores. MILD STEEL.	500	kg			
28	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 BARS.(58)	38502	kg			
29	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.(62)	208.98	Cu.m			
30	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 [66]	447.45	Sq.m			
31	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.(67)	67.18	Cu.m			
32	Half brick masonry in cement mortar 1:4 (1 cement: 4 coarse sand) with machine molded 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 ms. rods including the cost and conveyance of materials and labour charges in all floors. Cement will be FREE supply.(68)	76.92	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
33	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.(71)	0.6743	Cu.m			
34	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 butt hinges 100x58x1.9 mm 3 nos. to each shutter fitted with suitable nettle fold screws etc complete for single door shutter.	16.80	Sq.m			
35	Providing and fixing galvanized steel sheet doors frame produced from 1.2 mm [18 G] thick galvanized 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 formed 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 fasteners. Vision glass has to be fixed with Unbreakable toughned 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 thermo-setting polyurethane paint of Al-phatic 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 deed 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. [728]	48.51	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
36	Providing and fixing main entrance door all as per the drawing with following specification. All the partition box sections are made of 101x44x3mm thick Aluminum sections powder coated with approved colour and shade. Door verticals will be with 47x44.5x3mm door top & bottom will be with 95x44.5x3mm. All the glass in partition will be fitted with 5mm th. clear glass and door shutter glass has to be fitted with 8mm 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 aluminum 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 design & 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. (694)	10.50	Sq.m			
37	Providing and fixing 40x3 mm flat iron hold fast 400mm long including fixing with 10 mm dia bolts, nuts and wooden plugs embedding in cement concrete block 30x10x15cm 1:3:6 [1 cement : 3 coarse sand : 6 stone aggregate 20 mm nominal size] [78]	72.00	Each			
38	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. [79]	20.00	Each			
39	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]	40.00	Each			
40	Providing & fixing aluminium handles anodised transparent/dyed to required colour/shade with necessary screws, complete of size 125 mm. [81]	40.00	Each			
41	Providing & fixing aluminium hanging floor door stopper anodised transparent/	40.00	Each			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	dyed to required colour and shade with necessary screws etc., complete. Twin rubber stopper. [82].					
42	Providing and Fixing Two track Aluminium sliding window with mat finish exterior grade of powder coating with approved colour. Aluminium extrusions for two track windows are of JINDAL make sections No-8732,61.85x 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 N0-8821 40 X26.7 X1.5mm 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.(100)	46.2	Sq.m			
43	Providing and Fixing Two track Aluminium partly sliding window partly with fixed glass 4mm th with mat finish exterior grade of powder coating with approved colour Aluminium extrusions for two track windows are of JINDAL make sections No-8732,61.85x 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 N0-8821 40 X26.7 X1.5mm 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.	28.8	Sq.m			
44	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 (692)	169.05	Sq.m			
45	Providing and fabricating and installing the façade structural glazing for the	122.85	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	<p>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 transom 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 silicon or equivalent sealant including the providing polyethylene cross link foam spacer. The grooves between the glass panels are to be filled with weather sealant of silpruf black RTV silicon of GE silicon or equivalent make to make it air tight water tight and dust free including cost of scaffolding, materials, labour etc. complete.</p>					
46	<p>Providing & fixing Aluminium ventilator with mat finish exterior grade of powder coating of approved colour with aluminium box section of 63X37X2mm 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.</p>	2.7	Sq.m			
47	<p>Fabrication, supply and fixing of motorised rolling shutter of approved design made of 18 G MS Lathe inter locked 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 reinforced with 40x40x6 angle, guide channel 10 G processed section, MS top cover 1.25mm thick etc. complete. The following electrical equipment are to be fitted to the rolling shutter.</p> <ol style="list-style-type: none"> 1.1 HP motor [Crompton or equivalent make [1440 RPM] 2. Reduction gear box Elecon or equivalent make [1/2 HP 1:50] 3. Siemens starter [reverse-forward] Siemens or equivalent. 4. Limit switches of approved make[698] 	14.00	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
48	Providing and laying 8mm thick Vitrified ceramic tile flooring laid over 40mm 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)	181.76	Sq.m			
49	Providing & fixing 18mm to 20mm thick polished granite stone slabs (Icon brown/Vizag blue) on a Cement mortar bed of 40mm 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 mate of approved brand and shade including smoothening of edges etc., complete. Cement will be free supply. (687)	465.61	Sq.m			
50	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 40 mm 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.	52.02	Sq.m			
51	Providing and laying 10mm thick Antiskid Vitrified Ceramic tiles flooring laid over 40mm thick cement mortar 1:6 (1 cement : 6 Coarse sand)and applying a cement slurry of 6.4kg/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	43.34	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	agents and the material such as colour grout, sand, chips, labour, transportation & lifting of tiles has to be procured by contractor) cement will be free Issue (735)					
52	Providing cement concrete flooring mix.1:2:4 (1cement: 2coarse 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 40mm thick flooring. Cement will be FREE supply.(146)	288.80	Sq.m			
53	Providing and fixing 8 mm thick 12"x24" of size ceramic tile with anti-stain property [Johnson or equivalent make] on wall face on cement plaster of 12mm thick cement mortar 1:3 [1 cement : 3 fine sand] tiles 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.	155.08				
54	Providing and laying 10mm thick parking Antiskid Vitrified ceramic tile (Johnsons endura or equivalent) flooring laid over 40mm 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. 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. (736)	64.00	Sq.m			
55	18mm thick cement plaster in two 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 floors. (Cement will be Free supply) (167)	4322.4	Sq.m			
56	Providing and applying Two coats of BIRLA LAPPUM over plaster surface to make the surface even and smooth and sand papering Two times to get even &	1365.5	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	smooth surface including curing etc. complete. (689)					
57	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 manufacturers 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).(656)	793.00	Sq.m			
58	18 mm thick sunk/raised mortar bands in cement mortar 1:4(1 cement:4 fine sand).Cement will be FREE supply.	258.00	Rm			
59	Providing and Fixing of decorative cornice in cement concrete all as per drawing.	147.00	Rm			
60	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 approved brand.(185)	1514.6	Sq.m			
61	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 per manufacturers specifications including cost of all materials, labour scaffolding etc complete(193)	1207.6	Sq.m			
62	Providing and applying Cement based Textured Exterior wall finish of approved design & make to the exterior surface of the building all as per the manufactures instructions over final coat of plastering including applying approved colour/ Chemical coating. Cost will including all materials scaffolding scraping or cleaning, finishing etc., complete. (690)	284.70	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
63	Providing and Fixing Stainless steel railing all as per drawing including grouting the Railing etc complete.	39.60	Sq.m			
64	Reinforced cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20mm nominal size) excluding cost of centring and shuttering and reinforcement in columns in all floor. Cement will be FREE supply.(41)	6.48	Cu.m			
65	Applying & finishing with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade,two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	191.10	Sq.m			
66	Providing and fixing in position 25mm thick bituminous impregnated fibreboard including cost of all materials ,labour etc., Complete.(707)	22.00	Sq.m			
67	Providing and fixing Mortise lock of approved make & designed (710)	10.00	Each			
68	Providing & 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.	2.00	Each			
69	Providing and Fixing trench covers of 35mm thick MDF board conforming to IS 12406 in between MS angles including fixing & applying one coat of primer and two or more coats of synthetic enamel paint on both sides of trench cover of approved make and shade.(586)	16.80	Sq.m			
70	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 the second layer. After completing the all interior works entire POP has to be removed .Floor has to be cleaned with approved detergents .	571.75	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
71	Providing and fixing of Glass mosaic mural with name of the building of approved shade and brand including all materials, labour etc., complete.	15.01	Sq.m			
72	Providing & fixing hydraulic door closer of approved make with two speed adjustment 90 deg. hold open feature. It should hold a maximum door weight of 80 kg etc. complete.	10.00	Each			
ROAD WORK						
1	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 upto 1.50 m including getting out the excavated soil and disposal of surplus soil as directed within a lead of 50m in all kinds of soils.(3)	144.0	Cu.m			
2	Providing and laying in position cement concrete of mix 1:4:8(1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) excluding the cost of centering , shuttering- all works upto plinth level. Cement will be FREE supply(23)	72.00	Cu.m			
3	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.(62)	144.00	Cu.m			
4	Supply and filling with morrum brought from outside including Laying in layers not exceeding 200mm in depth, watering and ramming and consolidating each deposited layer.(12)	144.0	Cu.m			
5	Providing and fixing Grey/Red colour Weather stone interlock concrete pavers in block thickness of 60mm inclusive of sub-base compaction ,Supply and preparation of 100mm of sand filling bedding placing of pavers trimming of edges , treatment of joints with fine sand ,final compaction and sweeping clean etc including cost of all material (159)	320.00	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
INTERIOR WORKS						
1	Providing and fixing 89mm thick pre-laminated double skin partitions full height using 40mmx64 mm medium teak wood frame work with horizontals and verticals placed at 600mm center to center and cladding panels of 12mm thick one sided pre-laminated exterior grade of approved colour and make on both sides of the frame work by using cleats. 3 mm gap has to be provided for expansions at the joining of the cladding panels. 100mm x25mm thick teakwood beading with polish of matching shade has to be used as skirting at bottom of the partitions. Teak wood beading has to be polished either with matching shade of partition laminates or natural colour teak wood polish (Some partitions are stopping at ceiling height but vertical members should go up to beam / room bottom. Measurement will be made up to false ceiling only where partitions are stopping at false ceiling). Prelaminated exterior grade board should confirm to IS:12823.(745)	103.78	Sq.m			
2	Providing and fixing 89mm thick pre-laminated double skin Half Height partitions using 40mm x 65mm medium teakwood frame work with horizontals and verticals placed at 600mm center to center & cladding panels of 12 mm th. one sided pre-laminated exterior grade board of approved color & make [IS 12823] on both sides of the frame work by using cleats. 3mm gap has to be provided for expansion at joining of the cladding panels.100mmx23mm th teakwood beading with polish of matching shade has to be used as skirting at bottom of partitions. Teakwood beading has to be polished either with matching shade of partition laminates or natural colour teakwood polish.The exposed edges on top and sides or wherever visible should be covered with 100x12mm teakwood lip-ping duly polished to natural colour Clear glass of 8 mm th. upto a height of 400mm with a curve on top as per the design should be fixed above the partition using decorative molding. Glass edges should be sanded and	45.92	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	polished to smooth & simple itching design all as per the drawing.(746)					
3	Providing & fixing 47 mm thick pre-laminated sheet wall paneling using 35 x 50 mm thick Exterior grade plain particle board for horizontals & verticals placed at 600mm C/C and leveling to plumb with a gap of min 35mm or running for electrical pipes etc complete. Cladding panels of 12 mm thick one side Pre-laminated Exterior grade board of approved make & shade (IS:12623) has to be fixed to the frame work using cleats. 3 mm gap has to be provided for expansion at the joining of the cladding of panels. Provided 100 mm x 25 mm Teak wood skirting at bottom of the wall paneling. Teak wood beading has to be polished either with matching shade of wall paneling or natural colour teak wood polish.(715)	93.93	Sq.m			
4	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 35mm for running from electrical pipes etc., complete. Cladding has to be made with 12mm 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 natural colour polish of approved shade. [732]	54.40	Sq.m			
5	Providing and fixing in true horizontal level false ceiling grid of prelude XL system of M/s Armstrong OR equivalent make using Hot dipped galvanized steel section, exposed surface chemically leaned capping prefinished in baked polyester paint, Main Tee of size 24 x32 x 3000mm at every 600mm C/C, CROSS Tee of size 24 x 25 x 600mm at every 600mm x 600mm and suspending the grid using 2mm GI wire and 6mm nylon rawal plug at every 1200mm intervals at the main tee and laying MINERAL	537.96	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	FIBER ACOUSTIC CEILING BOARDS (fine fissured) of M/s Armstron 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, thermal conductivity of K=0.052 w/m, Weight of 3.5kg/Sq.m and Humidity Resistance of RH-95 of size 600mmx600x15mm over the formed grid.(744)					
6	Providing & fixing India gypsum suspended ceiling which includes G.I. perimeter channels of size 55 mm th. having one flange of 20mm & another flange of 30mm & a web of 27mm along with perimeter of ceiling screw fixed to brick wall/partition with the help of nylon sleeves & screws at 610mm centers. Then suspending GI intermediate channels of size 45mm 0.9mm th. with two flanges of 15mm each from the soffit at 1220mm centers with ceiling angle of width 25mmx10mmx0.55mm thick fixed to soffit with GI cleat and Steel expansion fasteners. Ceiling erection of 0.5mm thickness having knurled web of 51.5mm & two flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clip & in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge Gypboard (conforming to IS 2095-1982 & 2542-1981) is then screw fixed to ceiling section with 25 mm drywall screws at 230 mm centers. Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. For fixing light fittings AC grill diffusers and cut-outs etc has to be made with the frame of perimeter channel of size 20mmx27mmx30mmx55mm thick supported suitable from the ceiling. Ceiling design has to be made according to drawing where ever required. Finally applying two or more coats of plastic emulsion paint of approved brand and shade.	70.00	Sq.m			
7	Providing & fixing India gypsum suspended false ceiling which includes pre-coated GI angle of size 24x24x0.9mm thick fixed to the brick wall/partition at the perimeter of ceiling with nylon sleeves and screws at	27.84	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
	<p>610mm centres. Then suspending main GI T section [bottom precoated] size 24x38x0.7mm and 360mm long from soffit in one direction with 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 precoated] size 24x38x0.7mm and 600mm long</p> <p>is insert fixed into the slots provided in the main T at 600mm centers to form 600x600mm grid. Providing and laying 12.5mm thick gypboard tiles with metalised polyester film backing tiles of size of 595x595mm 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</p> <p>to form suitable size of the light openings.</p>					
8	<p>Providing & fixing underdeck insulation below roof slab in the form of 50mm thick Tf quality expanded polystyrene sheet having density of 16kg/cum with non flammable fold sticking compound/blown bitumen grade 85/25. The EPS sheet shall be tied with lacing wire and GI washers made 24 G GI sheet to 10mm dia and 25mm long rawl plugs/screws fixed to the roof before sticking to the EPS sheets and secure tightly to the under side of roof.</p>	675.00	Sq.m			
9	<p>Supply & fixing of 43 mm th. Hollow core flush door with all round Teak wood frame of size 4"x1" middle & bottom frame of 6"x1"and fixing both side 9mm thick prelaminate exterior board all as per the design of the door and teak wood design beading including polishing all the exposed teak wood surfaces with wax polishing Door has to be fixed with necessary furniture fittings such as Mortice lock of approved make or Aldrop of approved design, tower bolts, Handles, Door stoppers, etc., complete. Necessary opening in the upper part of the door has to be made with glass and beading prelaminate exterior grade board should be confirm to IS 12823. (750)</p>	21.00	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
10	Supply, fabrication & fixing of 4 mm thick aluminium composite panel cladding of approved colour and finish fixed to the back-up frame work comprising of 38x25mm aluminium angles fixed to the column wall using anchor boards. All panels are to be fabricated in trays before fixing. 12mm spacing should be there between composite panels to be filled with a baker rod and sealed with weather proof silicon sealant [Dow Corning 789 or equivalent] Aluminium composite panel cladding panels will be in one colour or different approved colour combination. The cost should include supply, fabrication & erection of material alongwith necessary scaffolding safety arrangements sealing the gaps between masonry and cladding.	60.00	Sq.m			
11	Providing & fixing 50 mm thick 48 kg density glass fiber wool in the hollow portion of the partition for sound proofing of partitions.(747)	33.17	Sq.m			
12	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.(71)	0.2805	Cum			
13	Applying and painting with plastic emulsion paint of approved brand & shade to give an even shade on gyp board ceiling ,wall panelling ,& partitions work two or more coats over a coat of cement primer of approved brand.(185)	123.00	Sq.m			
14	Polishing with french spirit polish of approved brand and manufacture of required shade two or more coats on new work including a coat of wood filler.(189)	30.64	Sq.m			
15	Providing and fixing of 5.5mm thick clear glass with wood/Aluminum beading including fixing beading including cost of all materials labour	27.00	Sq.m			
16	Providing and applying plain stained/ itching on glass with partly acid wash design in the partitions, design has to be fixed with tapered Teak wood beading of approved design including polishing with matching shade of partion etc., complete (739)	18.00	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
17	Providing and fixing cup-board shutters made out of 18mm th.water proof plywood pasted with 1 mm th.laminate on both sides of the shutter with approved shade & make. Around the opening has to be fixed with 75x37mm th.medium class TW frame polished with wax polish with 3 or more coats of approved shade.Shutters are to be fixed with hinges, handles, tower bolts, ball catchers,concealed locks etc. complete all as per directions of engineer-in-charge.[731]	87.75	Sq.m			

SANITARY AND WATER SUPPLY

1	17.1: Providing & 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 cutting and making good the walls and floors wherever required and of type: White Vitreous Orissa pattern W.C pan of size 580 x 440 mm	2	Each			
2	17.2: Providing and fixing WHITE VITREOUS CHINA 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.	2	Each			
3	17.7: Providing & 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, cutting and making good the walls, wherever required, of type: White Vitreous China wash basin size 630x 450 mm with a PAIR of 15 mm C.P brass pillar taps.	5	Each			
4	17.10: Providing and fixing STAINLESS STEEL AISI 304 (18/8) KITCHEN SINK as per IS:13983 with C.I brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making go the walls wherever required, of type:Kitchen sink WITHOUT drain board size 610 x 510 mm & bowl depth 200 mm	1	Each			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
5	17.4: Providing and fixing WHITE VITREOUS CHINA FLAT BACK OR WALL CORNER TYPE LIPPED FRONT URINAL BASIN of 580 x 360 x 350 mm with white PVC automatic flushing cistern with fittings CP brass standard flush pipe and C.P. brass spreaders with brass unions & G.I. clamps with waste fittings as per IS 2556, C.I. trap with outlet grating and other couplings in CP brass including painting of fittings and brackets, cutting and making good the walls and floors wherever required, with: Range of three urinal basins with 10 litre white PVC automatic flushing cistern Parryware/ Hindware/ Seabird/ Orient (Coral)	2	Each			
6	17.31: Providing and fixing 600x450mm 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.	4	Each			
7	Providing and fixing CP brass Towel rail 600x20mm size complete with brackets fixed to the wooden cleats with CP brass screws.	6	Each			
8	17.60: Providing and fixing TRAP of self cleansing design with screwed down or hinged grating with or without vent arm etc. complete, including cost of cutting and making good the walls and floors etc. with:100 mm inlet and 100 mm outlet with SCI S&S	10	Each			
9	Providing and fixing 18 mm thick granite slab of gang saw mirror polishing premoulded and prepolished machine cut for urinal partition of required size of approved shade, colour layed over 20mm thick base cement mortar 1:4 [1 cement: 4 coarse sand] with joints treated with matching colour pigment epoxy touchups, including rubbing, curing, moulding and polishing to wedge to give high glass finish etc complete at all levels	3	Sq.m			
11	Providing and fixing three layer PP-R [poly propylene random co-polymer] pipes SDR 7.4 UV stablized and anti-micro bio fusion welded having thermal stability for hard and cold water supply including all PP-R pipe and brass 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 20 mm OD.	80	Rm			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
12	Providing and fixing three layer PP-R [poly propylene random co-polymer] pipes SDR 7.4 UV stablized and anti-micro bio fusion welded having thermal stability for hard and cold water supply including all PP-R plane and brass 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 25 mm OD.	50	Rm			
13	Providing and fixing three layer PP-R [poly propylene random co-polymer] pipes SDR 7.4 UV stablized and anti-micro bio fusion welded having thermal stability for hard and cold water supply including all PP-R plane and brass threaded poly propylene random fittings including trenching, refilling, and testing of joints etc complete as per direction of Engineer in Charge. for PN-16 pipe 50 mm OD.	125	Rm			
14	Providing & fixing CP BRASS STOP COCK of standard design and of approved make conforming to IS 8931 for nominal bore of: 15mm	12	Each			
15	Providing and fixing CP BRASS BIB COCK of approved quality and nominal bore of: 15mm	8	Each			
16	Providing & fixing GUN METAL GATE VALVE with CI wheel of approved quality (screwed end) and nominal bore of: -50mm	2	Each			
17	Providing & fixing GUN METAL GATE VALVE with CI wheel of approved quality (screwed end) and nominal bore of: -25mm	2	Each			
18	Providing, laying & jointing GLAZED STONEWARE 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.	350	Rm			
19	Providing and fixing squar mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with bricks and water tight C.I. cover with frame of 300 X 300mm size (inside) the weight of cover to be not less than 4.5 kg. And frame to be not less than 2.7kg. as per standard design; 125 X 100mm size with 'P' type trap. (345)	5	Each			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
20	Constructing brick masonry manhole with 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 :2coarse 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 (1 cement :2coarse sand :4 graded stone aggregate 20 mm nominal size) neatly finished complete as per standard type design. Inside size 90 X 80 cm & 45 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.(353)	5	Each			
21	Constructing brick masonry man - hole with locally available best bricks in cement mortar 1:5(1 cement : 5 fine sand) R.C.C. top slab with 1:2:4 (1 cement :2coarse sand :4 graded stone aggregate 20 mm nominal size) , foundation concrete PCC 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 (1 cement :2coarse 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 & weight of frame 15 Kg) Cement will be free supply.(355)	5	Each			
22	19.7: Constructing BRICK MASONRY MANHOLE WITH SPECIFIED BICKS IN CEMENT MORTAR 1:4 (1 cement:4 coarse sand) RCC top slab with 1:2:4 mix(1ceemnt: 2coarse sand :4 graded stone aggregate 20mm nominal size),foundation concrete 1:4:8 mix(1cement: 4coarse sand: 8graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement:2coarse sand :4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design etc. with & of: Inside size 120x 90 cm. and 90 cm. deep including CI cover with frame (Heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) etc. with locally available best bricks	2	Each			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
23	Providing and fixing on wall face UNPLASTICISED RIGID PVC RAIN WATER PIPES conforming to IS:13592 Type-A including jointing with seal ring conforming to IS:15382 leaving 10mm gap for thermal expansion Single Socketed pipes etc. for 110mm dia	85	Rm			
24	Providing and fixing on wall face UNPLASTICISED RIGID PVC PLAIN BEND conforming to IS:13592 Type-A including jointing with seal ring conforming to IS:15382 leaving 10mm gap for thermal expansion Single Socketed pipes etc. for 110mm dia	12	Each			
25	Providing and laying 110 mm Dia. UV resistant SWR grade PVC pipe (sudhakar/ prince/ supreme) in all height including the cost of fitting, solution for fixing PVC pipe and MS clamps etc . complete.(644)	50	Rm			
26	Providing and laying 75mm Dia. UV resistant SWR grade PVC pipe (sudhakar/ prince/ supreme) in All height including the cost of fitting, solution for fixing PVC pipe and MS clamps etc . complete.(645)	50	Rm			
27	Providing and laying 110 mm Dia. UV resistant SWR grade PVC pipe (sudhakar/ prince/ supreme) in all height including the cost of fitting, solution for fixing PVC door bend etc. complete.(646)	8	Each			
28	Providing and laying 75 mm Dia. UV resistant SWR grade PVC pipe (sudhakar/ prince/ supreme) in all height including the cost of fitting, solution for fixing PVC door bend etc. complete.(646)	8	Each			
29	Providing and laying 110 mm Dia. UV resistant SWR grade PVC pipe (sudhakar/ prince/ supreme) in all height including the cost of fitting, solution for fixing PVC plain bend etc. complete.(646)	8	Each			
30	Providing and laying 75 mm Dia. UV resistant SWR grade PVC pipe (sudhakar/ prince/ supreme) in all height including the cost of fitting, solution for fixing PVC plain bend etc. complete.(646)	8	Each			
31	Supply and erection of P.V.C. water tank of approved make over roof slab in all heights including transportation and handling etc, complete.(363)	5000	Ltr			
LAND SCAPING						
1	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	2217.5	Sq.m			

S.No.	Description of Item	Quantity	unit	Rate in figures	Rate in words	Amount
2	Grass with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately). In rows 5 cm apart in either direction.	2217.5	Sq.m			
3	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment.	443.5	Sq.m			
4	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/and good earth to be paid separately).	443.5	Cu.m			
5	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 upto 1.50 m including getting out the excavated soil and disposal of surplus soil as directed within a lead of 50m in all kinds of soils.(3)	443.5	Cu.m			

Total

Note:

- 1 Cement, Mild steel and Tor Steel required theoretically will be supplied FREE OF COST at BHEL (R&D) stores.
- 2 Excess/ Short consumption of above said materials will be accounted at penal recovery at the time of FINAL/RUNNING BILL as per norms of CPWD Schedules and Specifications.
- 3 The penal 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

ISSUE OF STORES TO THE CONTRACTOR

SN	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 at 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 which 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. 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. This scrap will be the property, of the contractor, who will be responsible for their removal from the site in good time as Directed by the Sr. Engineer. 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-in-charge without any delay in writing for consideration.

PUNITIVE RATE FOR EXCESS / SHORT CONSUMPTION

1. CEMENT	Rs. 4,600-00 per M.T
2. MILD STEEL	Rs. 44,000-00 per M.T
3. TOR STEEL	Rs. 44,000-00 per M.T

SIGNATURE OF CONTRACTOR(S)

ACCEPTING OFFICER

SERVICES VIZ, WATER & LIGHTING TO THE CONTRACTOR

1. WATER:

Water required for construction purpose shall be supplied by Bharat Heavy Electricals Limited. And charged at Rupees two per thousand gallons. The supply will be made at convenient point to be determined by the AGM (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 Dy. Manager,

i) On the total value of periodical maintenance items of buildings	0.25%
ii) On the valued of road works	0.75%
iii) On the total value of other Civil Works	0.50%

Note: In respect of items (I) & (ii) only items where water is consumed on the works will be considered for arriving at the total value.

In respect of item (ii) the value of works of picking metal, earth work and asphaltting will be excluded from the total value of road work.

2. POWER:

Electric power, if required, will be supplied at a convenient metered point, to be selected by Engineering (I/C). 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

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