

BHEL EDN TENDER



PLACE OF WORK

GOVT SCHOOL DEEPANJALINAGAR
BANGALORE.-560026
CONTACT NO:-23394382

SUBMISSION OF TENDER DOUCMENT

AT THE RECEPTION, HRM Tender Box (No.12)
BHEL ELECTRONICS DIVISON
MYSORE ROAD
BANGALORE-560026.

To,
DGM /HR-CSR
BHEL – ELECTRONICS DIVISION
MYSORE ROAD
BANGALORE – 560026.

Phone No. 080-26998374, 080-23394382

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು /ದಿ.ನಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು/ದಿ.ನಿ.
K.A.RAVEENDRA, DY GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026



Bharat Heavy Electricals Ltd
Electronics Division
Mysore Road, Bangalore – 560026

Tender Document for

**CONSTRUCTION OF TOILETS WITH WATER FACILATY, 10000 LTRS
CAPACITY SUMP WITH A OVER HEAD TANK AND 0.5 HP SINGLE PHASE
MONOBLOCK PUMP AT GOVT SCHOOL DEEPANJALINAGAR**

DUE DATE OF SUBMISSION OF DULY FILLED-IN
BEFORE 1:15 PM ON 30-08-2019.

SINGLE PART BID

TENDER OPENING DATE 30-08-2019 AT 1.30PM

Part – I Technical cum Commercial Bid 27 Pages
Part – II Price Bid + Drawing 08+01 Page

Note: Part-I & Part-II both should be put in sealed covers and super scribing the Name of work and Name & Address of the Tenderer.

CONTRACTOR

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕ ನಿರ್ದೇಶಕರು / ಮಾ.ನಿ.ಸ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಶೋಧನೆ ವಿಭಾಗ/ಮಾ.ನಿ.ಸ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Bharat Heavy Electricals Limited
ELECTRONICS DIVISION
Mysore Road, Bangalore - 560026

Phone No.26998374, 23394382

HRM/TOWNSHIP DEPT.

NOTICE INVITING TENDERS

01	TENDER NUMBER	EDN/HR/CSR/904/19/589-B/100 Dt 26.08.2019
02	NAME OF WORK	CONSTRUCTION OF TOILETS WITH WATER FACILATY, 10000 LTRS CAPACITY SUMP WITH A OVER HEAD TANK AND 0.5 HP SINGLE PHASE MONOBLOCK PUMP AT GOVT SCHOOL DEEPANJALINAGAR
03	COMPLETION TIME	90 DAYS
04	LAST DATE AND TIME FOR THE SUBMISSION OF DULY FILLED IN TENDER DOCUMENT	BEFORE 1:15 PM ON 30-08-2019
05	PLACE OF SUBMISSION OF AT THE RECEPTION TENDER DOCUMENT	AT THE RECEPTION TENDER BOX / HRM BHEL - ELECTRONICS DIVISION MYSORE ROAD, BANGALORE - 560 026.
06	DATE AND TIME OF TENDER OPENING	AT 1:30 PM ON 30-08-2019

NOTE: The Tenderer shall be duly filled in Tender document after affixing signature on all pages.

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ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಶೋಧನೆ ವಿಭಾಗ/ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

PART-I
Technical cum Commercial Bid

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


DEPARTMENT	HRM
SECTION	CSR
REF.TENDER ENQ.NO:	EDN/HR/CSR/904/19/589-B/100 Dt 26.08.2019

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

01	NAME OF THE FIRM/COMPANY	
02	NAME OF CONTRACTOR/OWNER	
03	ADDRESS & CONTACT	
	(A) OFFICE	
	(B) RESIDENCE	
04	QUALIFICATION	
05	STAFF STRENGTH	
	(A) TECHNICAL	
	(B) GENERAL	
06	PLANT/EQUIPMENTS	Enclosed/Not Enclosed
07	(A) SCOPE OF WORK (As per schedule of items)	UNDERSTOOD/ NOT UNDERSTOOD
	(B) ACCEPT TO EXECUTE IN TOTAL	YES/ NO

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ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಮನವರಿಕೆ ವಿಭಾಗ/ಮಾ.ನಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHBL-EDN, MYSORE ROAD, BANGALORE-560026

09	ACCEPTANCE- DRAWINGS & DESIGNS	ACCEPTABLE / NOT ACCEPTABLE
10	BHEL'S PAYMENT TERMS	ACCEPTABLE / NOT ACCEPTABLE
11	CONSTITUTION OF FIRM	Individual /Sole Proprietorship Concern/ Partnership Firm/Public Ltd. Company/Private Ltd. Company
12	ELECTRONIC FUNDS TRANSFER (EFT) FORM ENCLOSED	Please fill up the form in ANNEXURE-II
13	COMPLETION PERIOD MENTIONED IN NIT	ACCEPTABLE/ NOT ACCEPTABLE
14	A. SITE INSPECTION CERTIFICATE AS PER ANNEXURE IV	ACCEPTABLE/ NOT ACCEPTABLE
	B. AGREEABLE TO EXECUTE THE WORK WITHOUT SITE VISIT :	YES/ NO
15	BHEL GENERAL CONDITIONS OF CONTRACT (ATTACHED)	ACCEPTABLE/ NOT ACCEPTABLE
16	GSTIN No. (Please enclose copy)	

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ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಮನವರಿಕೆ ವಿಭಾಗ/ಉ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Bharat Heavy Electricals Limited
ELECTRONICS DIVISION
MYSORE ROAD- BANGALORE-26
INSTRUCTIONS TO TENDERER

1. Sealed Tender for the above noted work is hereby invited from Contractors experienced in works of similar kind and magnitude.
2. Tenders should be addressed to the DGM /HR (Township & CSR), Electronics Division, Bharat Heavy Electricals Limited, Mysore road, Bangalore – 560 026. Both “Technical cum Commercial Bid” and Price Bid put in sealed cover , super scribing the Name of work and Name and address of the Tenderer.
 - a. The local address of the Contractors, the name of the person to whom all the Correspondence are to be addressed should be indicated, with telephone number (both office and residence), FAX /E-mail address, Mobile phone No. etc.
3. All entries in tender documents should be in same ink (**preferably blue ink**). Erasing and overwriting is not permitted. The tenderer concerned with proper indication of the name, designation and address of the person signing should duly sign all cancellations and insertions.
4. Tenderers shall fill in all the required particular in the blank space provided for this purpose in the tender documents and also sign in each and every page of the tender document including the drawings attached there to before submitting tender.
5. Unit rate should be quoted in figures as well as in words in Indian Currency only i.e. Rupees and Paisa with reference to each item and for the items shown in the attached schedule. These rates shall be for the finished work at site. The rate shall include all taxes and duties payable on account of GST etc., and also expenses towards PF and ESI contributions (see clauses 2.8 of GCC Annexure ‘B’). Amount of each item and total on each sheet as also the grand total amount of the whole contract shall be filled by the tenderers.
6. In case the rate quoted in figures differs from those quoted in words, the lower of the rates quoted will be taken as the tendered rate and shall be binding on the tenderer.
7. In quoting their rates, the tenderers are advised to take into account all factors Including any fluctuations in market rates. No claim for enhanced rates will be entertained on this account after acceptance of the tender or during the currency of the contract.

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ಬಿ.ಇ.ಇ.ಎಲ್. ಲಿಮಿಟೆಡ್, ತಪ್ಪಾ ಮಹಾಕವಿರೋಡ್/ಬಿ.ಇ.ಇ.ಎಲ್.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BH-EDN, MYSORE ROAD, BANGALORE-560026

8. The rates to be quoted by the tenderer shall be firm and should consist of GST. The GST should be quoted in the GST column in Price Bid. The all transactions shall be made as per GST Norm. If BHEL is required to discharge the liability of any taxes on the transaction like TDS(IT), similar taxes, which is or becomes payable by BHEL, the same shall be deducted from the bills of the contractor.
9. (a) The rate quoted in the tender shall remain valid for a period of 'THREE MONTHS' from
10. the date of opening tender.
 - (b) Tenderer shall not increase quoted rates, once the tenderer has submitted offers/quotation/price and during execution of contract in case tender is accepted.
 - (c) Successful bidder should execute the work strictly in accordance with Tender schedule quoted rates as accepted by BHEL.
11. Quantities shown in the schedule are only approximate and are liable to variation to an extent of 20% (Twenty percent). Within this variation, the contractor is entitled for compensation.
12. **Before tendering, the tenderer are advised to inspect the site of work and its environments** and be well acquainted with the actual working and other prevailing conditions, position of material and labour. They should be well versed with BHEL General Conditions of Contract instruction to the tenderers, drawing and specification and all other documents which form part of the agreement to be entered into subsequent to award of work. The tenderer should be specially note that it is tenderers responsibility to provide any items which is not specifically mentioned in the specifications and drawing, but which is necessary to complete the work.
13. Details and quantities of each item of work shown in the "Bill of quantities" attached here to only approximate. They are given as a guide for the purpose of tendering only and are liable for variation and alteration at the discretion of the competent authority. The work under each item as executed shall be measured and price at the corresponding rates to be quoted by the Contractor in the bill of quantities attached hereto.
14. In the event of the tender being submitted by a firm the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of Attorney on behalf of firm concerned. In the later case, a copy of the power of Attorney duly attested by the Gazetted Officer must accompany the tender.
15. In case, the date of Tender Opening falls on holiday, the Tender will be opened on the next working day.

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಡಿ.ಜೆ.ಎಂ.ಆರ್.ಐ.ಸಿ. / ಡಿ.ಜೆ.ಎಂ.ಆರ್.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

16. Unless the Contractor whose tender is accepted signs contract agreement within fifteen days (15 days) of the date of the order directing to do so, the amount of Earnest Money already deposited by bidder will be forfeited and acceptance of his tender withdrawn.
17. The BHARAT HEAVY ELECTRICALS LIMITED reserve the right to reject any or all the tenders received or accept any tender or part thereof without assigning reason thereof. In the case of acceptance of a part of tender, the time for completion may also be reduced to the extent considered necessary by the accepting authority.
18. Conditional and Unsigned tenders, tenders which are incomplete or otherwise considered defective, tenders which are not in accordance with the tender conditions laid down by the accepting officer and tenders not submitted in the prescribed forms are liable to be rejected.
19. The tenders should be enclosed with a list of contracts already held by the tenderer at the time of submitting the tender and giving the following particulars:
 - A. Name of the work, value and address.
 - B. The balance work remaining to be done on the same.
20. The filled in tender sealed cover should be dropped in the Tender box no.12 Marked as “HRM” kept in the reception of BHEL-EDN, in case the sealed tender document is large and not possible to drop the same in the Tender box, it should be handed over at office of DGM/HR –(Township & CSR) before the time fixed for submission of tender.

Tenders submitted by post should be sent by “Registered Post with Acknowledgement due”. These should be posted with due consideration for any delay in postal delivery.

Tenders received after the due date of opening of tenders are liable to be rejected.
21. The Contractors responsibility under this contract shall commence from date of receipt of the order or acceptance of tender.
22. Fraud Prevention Policy: “The Bidder along with its associate/Collaborators/Sub - Contractors/sub Vendors/Consultants/Service Providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL Website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.
23. If a tenderer expires after the submission of his tender or after the acceptance of his tender, BHEL may, at their discretion, cancel such tender. If a partner of the firm expires after the submission of the Tender, after the acceptance of the Tender, BHEL may cancel such Tender at the discretion unless the firm retains its character.

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24. THE BHARAT HEAVY ELECTRICALS LIMITED will not be bound by any power of Attorney granted by the tenderer or changes in the composition of firm made subsequent to signing of the contract. They may however recognize such power of Attorney and changes after obtaining proper legal advice.
25. If the tenderer deliberately gives wrong information on tender regarding past unsatisfactory performance with BHEL sister units, BHEL reserves the right to reject such tender at any stage including contract execution period.
26. Words imparting the singular number shall also be deemed to include the plural number and vice-versa where the context so require.
27. The General and Special Conditions are complementary to each other and where they are in conflict, the special condition shall prevail.
28. Any covering letter and comments of the Contractor should be submitted in duplicate along with the offer.
29. The expenses for completing the stamping agreement shall be paid by the contractor.
30. The Contractor shall provide all the materials needed for trial run, testing including chemicals, consumables etc which are not covered in the Price Bid. In quoting their rates, the Contractors are advised to take into account the cost of the above materials.
31. Should a tenderer or a contractor has a relative or in the case of firm or company, any of its share holders relative is employed in Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender may be disqualified or if such fact subsequently comes to light.
32. These 'INSTRUCTIONS TO TENDERERS' & 'GENERAL CONDITIONS OF CONTRACT OF BHEL' shall be deemed to form an integral part of the contract agreement for the work to be entered into. In cases of variation between the two in any matter, the conditions in the 'THE INSTRUCTIONS TO TENDERERS' shall prevail. Extracts of some of the important clauses of BHEL G.C.C are enclosed (Annexure containing extracts of clauses 2.18, and 2.8 of BHEL GCC). The contractor has to obtain, at his cost, a copy of the BHEL GCC, scrutinize the same, and when submitting his tender, indicate his acceptance of BHEL GCC in the Proforma enclosed at Annexure B.

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕರು / ದಿ.ಸಂ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕರು / ದಿ.ಸಂ.
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BHEL-EDN, MYSORE ROAD, BANGALORE-560026

34. **ARBITRATION:** - All disputes arising in connection with the contract shall be settled by mutual consultation. If no agreement is reached the dispute shall be settled in accordance with the provisions of the Arbitration & Conciliation Act, 1996 & GCC 2.18 and the rules made there under. The dispute shall be referred for arbitration to any arbitrator to be appointed by the Head of HR / BHEL-EDN, Bangalore. The award of the Arbitrator shall be final and binding on both the parties. The venue of the arbitration shall be Bangalore in India. The award to be given by the arbitration shall be a speaking award. All questions, disputes, differences arising under, out of or in connection with this contract shall be to the exclusive jurisdiction of Bangalore Courts.

35. **TERMS OF PAYMENT:** Payment will be made step wise on progress OR after completion of the work to the satisfaction of the Engineer in-charge and after submission of bill. The payment shall be released at following stages through cheque/NEFT:

36. Goods & Service Tax (GST):

The tendered shall have a valid GST Registration. GST Registration No. of the tendered shall be mentioned in the designated field of Techno-Commercial Bid.

Provisional GST ID No. of BHEL is **29AAACB4146P1ZB**

On award of the contract, the successful tendered (vendor) shall mention GSTIN number in all quotations & invoices submitted to BHEL.

SAC (Services Accounting Code) to be mandatorily mentioned in all quotations & invoices submitted.

Invoice submitted should be in the format as specified under GST Laws viz. all details as mentioned in Invoice Rules like GSTN registration number, invoice number, quantity, rate, value, taxes with nomenclature – CGST, SGST, IGST mentioned separately, SAC Code etc.

Payment of GST to vendors as applicable will be made only if it is matching with data uploaded by Vendors.

Vendors shall give undertaking that GST as mentioned in the Invoice has been paid either through cash or admissible input credit and also filed the returns.

For invoices paid on Reverse charge basis – “Tax amount” & that it is “payable on reverse charge basis to be mentioned on the invoice.

37. GENERAL:

a. TOOLS, TACKLES

All the tools, instruments etc., required for this work are to be brought by the party. Tools and materials brought inside our premises shall be properly entered at security check post to enable you to take them back after use.

The contractor shall ensure the safety of their personnel and they should be provided

b. with necessary safety equipment to carry out this type of work.

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

(c) The Contractor are to abide by security rules to get access to our premises that are in force from time to time.

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ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರಿ ಕಛೇರಿ/ಮಾ.ನಿ.ಸ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
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38. EXTRA ITEMS

No extra items of work shall be carried out by the contractor other than those authorized to do so in writing by the Engineer. For any such items of work executed as per instructions of Engineer. The rates will be fixed on the basis indicated under clause 2.13 of BHEL GCC. The schedule of rates to be followed in this case will be CPWD schedule of rates.

39. LEAD, LIFT, DEWATERING ETC..

- a) Unless otherwise specified in the tender schedule, the rates for all items will be deemed to include all leads, lifts and descents involved in the work.
- b) No separate payment will be made for dewatering (including seepage, surface drainage and monsoon water) desludging and allied operations at any stage of the work, and the cost of such operations will be deemed to be included in the contract rates.
- c) No separate payment will be made for curing including pumping of curing water where ever necessary.

40. REVERSE AUCTION/PRICE BID OPENING:

- BHEL reserves the right to go for reverse auction at any point of time before opening of Price Bid.
- Bids with non-acceptance of reverse auction will be liable for rejection.
- Opening of Price Bid at discretion of BHEL.
- BHEL shall be at liberty to cancel the tender at any time, before ordering, without assigning any reason.

41. The bidder along with its associate/collabrators/sub-contractors/Sub-Vendors/Consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice. Fraud prevention policy and list of Nodal officers shall be hosted on BHEL website, vendor portals of Units/Regions Internet.

42. SPECIAL CONDITIONS OF TENDER

- i. The successful bidder should open local office for Technical staff/Administrative group at Bangalore City for easy interactions/ monitoring of work at site.
- ii. Tenderers should not disclose any price bid details/discounts in the technical bids.
- iii. Contractors may use Manufactured/Engineered/Robo sand in lieu of river sand for all civil works except for plastering & Tile laying work for which only river sand to be used as per tender specifications.

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ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಾ ಮಹಾಪ್ರबंधಕರು/ಉ.ಸಂ.
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BHARAT HEAVY ELECTRICALS LIMITED
(ELECTRONICS DIVISION)
MYSORE ROAD- BANGALORE-26

GENERAL CONDITIONS OF CONTRACT/TECHNICAL SPECIFICATION

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

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CLAUSE 2.8 OF GENERAL CONDITIONS OF CONTRACT

LABOUR

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

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

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

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

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

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

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

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ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರವಹಾರ/ಡಿ.ಐ.ಸಿ.
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MODEL RULES FOR LABOUR WELFARE

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

ENCLOSURE: B

CLAUSE 2.17 OF BHEL GENERAL CONDITIONS OF CONTRACT **INSURANCE OF WORKS AGAINST DAMAGE AND LOSS DUE TO FIRE, STRIKE,** **TEMPEST, FLOODS, EARTHQUAKE, RIOT AND AGAINST DAMAGE BY AIRCRAFT**

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

If the contractor fails to comply with the terms of this condition the Accepting Officer may insure the work and may deduct. The amount of premium from any money that may become payable to the contractor or may at his discretion refuse payment of any advance to the contractor until the contractor shall have complied with the terms of this condition.

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

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

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಮಹಾಪ್ರबंधಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಮಹಾಪ್ರबंधಕರು/ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

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

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

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

All electrical equipment’s, connections and wiring for constructions power, its distribution and use shall conform to the requirement of the Indian Electricity Act and Rules. Only electricians licensed by the appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works. All electrical appliances including portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed. The contractor shall not use any hand lamp energized by electric power with supply voltage of more than 24 volts. For work in confined space lighting shall be arranged with power sources of not more than 24 volts.

The Contractor shall adopt all fire safety measures as laid down in the “Code for fire Safety at Construction Sites” issued by the Safety Department of the Construction Management (HQ) of BHEL and as per directions of the authorized BHEL official. A copy of the above referred “Code of Fire Safety at the Construction Sites” shall be made available by BHEL to the contractor for reference, on demand by the contractor, during tendering stage itself.

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸುರಕ್ಷತಾ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರು
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

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

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

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

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

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

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

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

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

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

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

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕರು /ದಿ.ಸಿ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರಿ/ಸಿ.ಸಿ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

SPECIAL CONDITONS OF CONTRACT

1. GENERAL

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

2. TIME OF COMPLETION

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

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

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಮಹಾಪಂಚಾಯಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಸ್ಥಾಪನಾ ಇಲಾಖೆ/ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

LIST OF INDIAN STANDARDS

Following is the list of various Indian Standards,
Relevant to the Civil Eng., work

1. EARTH WORK

- i) IS 1200-1992, Method Part I Earthwork, Measurement of Building, and Civil Engineering works, and chapter No.2 of CPWD/specification 1977.

2. MORTAR (PLASTERING)

- 1) IS 2394-1984: Code of practice for application of lime plasters finish.
2) IS 1661-1972: Code of practice for application of cement lime plasters finish.
3) IS 2402-1963: Code of practice for external rendered finishes.

3. CONCRETE WORK & RCC WORK

- 1) IS 456-2000: Code of practice for plain and reinforced concrete.
2) IS 432(part 1) –1982(Third Revision): Mild steel and medium tensile steel bars
3) IS 1766-1998: Cold twisted steel bars for concrete reinforcement.

4. BRICK WORK

- 1) IS 2212-1991: Code of practice for brick work.

5. STONE WORK

- 1) IS 1597-1992 (Part – I & II): Code of practice for construction of stone masonry.

6. MARBLE WORK

- 1) IS 1124-1974: Methods of test for water absorption of natural building works.

7. STEEL WORK

- 1) IS 800-2007(Third Revision): Code of practice for use of structural Steel in general building construction.
2) IS 1308-1984: Steels doors, windows and ventilators
3) IS 1081-1960: Code of practice for fixing glazing of metal (steel & aluminum doors, windows & ventilators)
4) IS 1161-1998: Steel tubes for structural purposes.
5) IS 4351-2003: Steel doorframes.
6) IS-6245-5245-1971: Metal rolling shutters and rolling grills.

CONTRACTOR

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

8. FLOORING

- 1) IS 2114-1984: Code of practice for laying in situ terrazzo floor finish.
- 2) IS 2571-1970: Code of practice for in situ cement concrete flooring.
- 3) IS 5318-1969: Code of practice of laying of flexible P.V.C. sheet & tiles flooring.

9. ROOFING

- 1) IS 3007(pt-I)-1999: Code of practice of laying of corrugated cement sheets.

10. FINISHING

- 1) IS 133-2004: Enamel, Interior (a) under coating (b) Finishing colour as required.
- 2) IS 348-1968: French Polish.
- 3) IS 427-2005: Distemper, dry colour as required.
- 4) IS 425-1969: Distemper, oil emulsion as required.
- 5) IS 5410-1992: Cement paint, Colour as required.
- 6) IS 5411 (pt.1)-1974: Plastic emulsion paint for interior use.
- 7) IS 6278-1971: Code of practice for white washing & colour washing.

11. DEMOLISION AND DISMANTILING.

- 1) IS 1200 (pt 18)-1974: Method of measurements of demolition and dismantling.

12. SAFETY CODE

- 1) IS 5916-1970: Safety code for construction including use of hot bituminous materials.
- 2) IS 4130-1991: Safety code for demolition of building.
- 3) IS 3754-1966: Safety code for excavation works.
- 4) IS 3696(Pt-1)-1987: Safety code for Scaffolds.

CONTRACTOR

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ನಿರ್ದೇಶಕರು/ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

A) DISTEMPERING ON NEW SURFACE. (OILBOUND)

1. COAT OF PRIMER 0.07 Litre/Sq.m (one coat)
2. COAT OF DISTEMPER 0.10 Kg/Sq.m (2 coats)

DISTEMPERING WITHOUT PRIMER

- FOR 1 COAT 0.10 Kg/Sq.m (For 1 coat)
- FOR 2 COATS 0.15 Kg/Sq.m (For 2 coats)

B) SYNTHETIC ENAMEL PAINT.

- a) ON NEW SURFACE ... PRIMER 0.09 Litre/Sq.m (For 1 coat)
- ENAMEL PAINT (2 COATS) 0.15 Litre/Sq.m (For 2 coats)

b) ON OLD SURFACE

- 2 COATS WITHOUT PRIMER ... 0.20 Litre/Sq.m
- 1 COAT ... 0.10 Litre/Sq.m

c) WATER PROOF CEMENT PAINT

- 1 COAT ... 0.18 Kg/Sq.m
- 2 COAT ... 0.30 Kg/Sq.m

d) PLASTING EMULSION PAINT:

- 2 COATS OF PLASTIC EMULSION 0.09 Litre/Sq.m
- 1 COAT OF PLASTIC EMULSION 0.073 Litre/Sq.m

ON NEW SURFACE

- 1 COAT PLASTIC FIX PRIMER ... 0.081 Litre/Sq.m
- 2 COATS PLASTIC EMULSION ... 0.09 Litre/Sq.m

However, the co-efficient should be not less than the manufacturer's recommendations.

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ-ಸಹಾಯಕ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಶೋಧನೆ ವಿಭಾಗ/ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

LIST OF MATERIALS OF APPROVED BRAND OF MANUFACTURERS

1. G.I Pipes : Apollo, TATA, Jindal, Zenith, Surya Prakash
2. P.V.C. PIPES/P.V.C. FITTINGS : Oriplast, Prince, Premier, Finolex, Supreme
3. Sanitary Fittings-Chrome plated : ESS, Jaguar, Hind ware, Cera/Parry ware, Pragya, Johnson
4. Gun Metal Valves : Leader, Neta
5. Door Shutters (Wood & P.V.C.) : Nikki Boards, Rajshree, Sunrise, Evergreen, Prestige Plywoods, D.S.Doors, Plasopan, Kutty Fenesta, Polywood, Duroplast, Forbwoods, Durian
6. Aluminum Sections : Indal, Jindal, Hindalco, GalcoAluminium, Balco, Nalco
7. Cement : Zuari, ACC, Coromandel, Ultratech, Birla, JK Cement, Ambuja, Raasi
8. Reinforcement Steel : VISL, TATA, SAIL, Chamundi, Indus, Meenakshi, Bhuwarka, S.K., Apex, Vizag, Essar, Mittal
9. Sanitary Fittings : Hindware, Jaguar, Parryware, Johnson, Seabird, Cera
10. Ceramic Tiles : Nitco, Somany, Kajaria, Regent, Johnson, Euro, Bell, Naveen
11. Vitrified Tiles : Nitco, Somany, Kajaria, Regent, Johnson, Euro, Bell, Naveen
12. Paints: Asian Paints, Berger, Johnson & Nicolson, (Primer/ Enamel/ Distemper/ Emulsion) Nerolac, Dulux
13. Particle Board/ Plywood Board : Novapan, Ecoboard, Assam Ply, Bhutan Board, Asis, Archid Ply
14. Water Proof Cement Paint : Snowcem ,Suryacem, Surfacem

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

FORM OF TENDER

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

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

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

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

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು / ಮಾ.ನಿ.ಒ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಮನವರಿಕೆ ವಿಭಾಗ, ಬೆಂಗಳೂರು.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

ENCLOSURE: C

CLAUSE 2.18 OF GENERAL CONDITIONS OF CONTRACT

ARBITRATION:

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

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

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

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

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

The arbitrator shall be deemed to have entered on the reference on the date he issued notice to both the parties fixing the date of the hearing.

The arbitrator shall give a separate speaking award in respect of each dispute or difference referred to him.

The venue of arbitration shall be such place as may be fixed by the arbitrator in his sole discretion.

The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕ ನಿರ್ದೇಶಕರು /ದಿ.ಸಿ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರಿ/ಸಿ.ಸಿ.ಸಿ.
K.A.RAVEENDRA, DY GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

HEALTH, SAFETY & ENVIRONMENTAL POLICY

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

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

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ-ಸಹಾಯಕ ನಿರ್ದೇಶಕರು /ದಿ.ಸಿ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸುರಕ್ಷತಾ ನಿರ್ದೇಶಕರು
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHBL-EDN, MYSORE ROAD, BANGALORE-560026

ANNEXURE -I

**ELECTRONIC FUNDS TRANSFER (EFT) OR
PAYLINK DIRECT CREDIT FORM**

Please Fill Up the form in CAPITAL LETTERS only:

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

BHEL Vendor/Supplier Code: _____

Company Name: _____

Permanent account Number (PAN): _____

Address: _____

City: _____

STATE

PINCODE

Contact Person(s)

Telephone No:

Fax No:

E-Mail-Id:

Sl.No.		
01	Bank Name:	
02	Bank Address:	
03	Bank Telephone No:	
04	Bank Account no	
05	Account Type: Saving/Cash Credit	
06	9 Digit Code Number of Bank and branch Appearing on MICR cheque issued by Bank	
07	Bank Swift Code (applicable for EFT only)	
08	Bank IFSC Code(applicable for RTGS)	
09	Bank IFSC Code (applicable for NEFT)	

CONTRACTOR

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ-ಸಹಾಯಕ ನಿರ್ದೇಶಕರು /ದಿ.ಸಂ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಮನವರಿಕೆ ವಿಭಾಗ/ಡಿ.ಸಂ.
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHEL-EDN, MYSORE ROAD, BANGALORE-560026

I here certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorize BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL/Transferring Bank responsible. This authority remains in full force until BHEL - EDN Bangalore receives written notification requesting a change or cancellation.

I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS/EFT.

Date:

Authorized Signatory:

Designation:

Telephone No. with STD Code

Company seal

BANK CERTIFICATE

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

Date:

Place:

(.....)

Signature

Please return completed from along with a blank cancelled cheque or photocopy thereof to:
Bharat Heavy Electricals Ltd.,
Attn:
Electronics Division, Mysore Road,
BANGALORE -560026

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ-ಸಾಮಾನ್ಯ ನಿರ್ವಹಣಾಧಿಕಾರಿ / ದಿ.ಸಂ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ-ಸಾಮಾನ್ಯ ನಿರ್ವಹಣಾಧಿಕಾರಿ/ದಿ.ಸಂ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Ref.
Date:

SITE INSPECTION CERTIFICATE

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

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

Signature of the contractor

Name:
Seal

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ-ಸಹಾಯಕ ನಿರ್ದೇಶಕರು /ದಿ.ನಿ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರಿ/ಇ.ಇ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Part-II

PRICE BID

To be submitted in a separate sealed cover.

NAME OF WORK: - CONSTRUCTION OF TOILETS WITH WATER FACILATY AND CONSTRUCTION OF 10000 LTRS CAPACITY SUMP WITH A OVER HEAD TANK AND 0.5 HP SINGLE PHASE MONOBLOCK PUMP AT GOVT SCHOOL DEEPANJALINAGAR

Total: Nine Page

SCHEDULE

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪನಿರ್ದೇಶಕರು /ಡಿ.ಐ.ಸಿ.
ಕೆ.ಎ.ರವೀಂದ್ರ, ತಪ್ಪು ಸಹಾಯಕರ/ಡಿ.ಐ.ಸಿ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHLE-EDN, MYSORE ROAD, BANGALORE-560026

NAME OF WORK: - CONSTRUCTION OF TOILETS WITH WATER FACILATY AND CONSTRUCTION OF 10000 LTRS CAPACITY SUMP WITH A OVER HEAD TANK AND 0.5 HP SINGLE PHASE MONOBLOCK PUMP AT GOVT SCHOOL DEEPANJALINAGAR

Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
1	Earth work excavation in All kinds of soil by mechanical means / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	15.00	CUM				
2	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift up to 1.5 m, as directed by Engineer-in-Charge: All kinds of soil	30.00	SQM				
3	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, inlayers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : Pipes, cables etc, not exceeding 80 mm dia. All kinds of soil.	50.00	METER				
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand(zone-III) : 8 graded stone aggregate 40 mm nominal size).	5.00	CUM				
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20 mm nominal size)	9.00	CUM				
6	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: Cement Mortar 1:4 (1 cement : 4 coarse sand).	11.00	CUM				
7	Half brick masonry with common burnt clay F.P.S.(non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)	100.00	SQM				
8	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)	250.00	SQM				

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಮಹಾಪಂಚಾಯತಿಯ / ದಿ.ಸಂ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಸ್ಥಾಪನಾ ಇಲಾಖೆ/ಉ.ಸಂ.
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHBL-EDN, MYSORE ROAD, BANGALORE-560026

Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
9	18 mm cement plaster with water proof compound in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) with mesh and a top layer 6 mm thick cement plaster 1:3 (1 cement: 3 coarse sand) finished with Neat cement punning	20.00	SQM				
10	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	12.00	CUM				
11	Centering and shuttering including strutting, propping etc. and removal of form for : , roofs, landings, balconies and access platform. Lintels, beams, plinth beams, chajja, column	75.00	SQM				
12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete to all height and level. Thermo-Mechanically Treated bars of grade Fe-500 D or more.	215.00	Kg				
13	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & .I.brackets,40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid	2.00	EACH				
14	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, 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 :White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral foot rests	2.00	EACH				

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಸ್ಥಾಪನಾ ಅಧೀಕ್ಷಕರು
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
15	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.						
A	20 mm nominal outer dia Pipes	40.00	RMT				
B	25 mm nominal outer dia Pipes	30.00	RMT				
16	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :25 to 40 mm nominal bore	2.00	EACH				
17	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	2.00	EACH				
18	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. White Agaria Marble Stone.	0.5	SQM				
19	Providing and fixing uplasticised PVC connection pipe with brass unions :45 cm length 15 mm nominal bore	7.00	EACH				
20	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	2.00	EACH				
21	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15mm nominal bore	12.00	EACH				

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ಸಹಾಯಕ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಸ್ಥಾಪನಾ ನಿರ್ದೇಶಕರು / ಡಿ.ಐ.ಸಿ.
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
22	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	5.00	EACH				
23	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick :Rectangular shape 453x357 mm	5.00	EACH				
24	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work over one prime coat	250.00	SQM				
25	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	70.00	SQM				
26	Providing and laying anti skid Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with whitecement and matching pigments etc., complete	45.00	SQM				
27	Providing and laying gang saw cut 18 mm thick, mirror polished pre-moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in in hand wash laid over 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge. With granite stone of area less than 0.50 sqm.	6.00	SQM				
28	Providing and fixing of Nahani Trap at required place	8.00	EACH				

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪನಿರ್ದೇಶಕರು /ದಿ.ಸಂ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಸ್ಥಾಪನಾ ಇಂಜಿನಿಯರ್
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHEL-EDN, MYSORE ROAD, BANGALORE-560026

Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
29	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	5.00	EACH				
30	Providing and fixing on wall face unplasticised Rigid PVC pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.						
A	75mm Dia	10.00	RMT				
B	110mm Dia	15.00	RMT				
31	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. Extruded section profile size 48x40 mm	20.00	RMT				
32	24 mm thick factory made uPVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	11.00	SQM				
33	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank (1000 ltr)	1000.00	PER LTR				

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ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪನಿರ್ದೇಶಕರು /ದಿ.ಸಂ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, ತರಬೇತಿ ಮತ್ತು ಸಂಸ್ಥಾಪನಾ/ಉ.ಸಂ.
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHBL-EDN, MYSORE ROAD, BANGALORE-560026

Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
34	Providing and fixing upvc Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball. 20 mm nominal bore, 120 mm long. Weighing not less than 198 gms.	2.00	EACH				
35	Providing and fixing cpvc extension nipple for water tank pipe, fittings of approved quality and colour. 20mm nominal bore. Weighing not less than 40 gms.	4.00	EACH				
36	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) 20 mm gate valve, having thermal stability for hot & cold water supply,	3.00	EACH				
37	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.00	EACH				
38	Providing and fixing brass Hand Shower (Health Faucet) with 1 Meter Long Tube & Wall Hook	2.00	EACH				
39	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Regid pipe 32 mm dia	6.00	EACH				
40	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.						
A	Single tee with door (110x110x110 mm)	4.00	EACH				
B	Single tee without door (75x75x75 mm)	4.00	EACH				
C	Bend 87.5°						
i	75 mm bend	2.00	EACH				
ii	110 mm bend	2.00	EACH				

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Sl. No.	Description	QTY	UNIT	RATE		AMOUNT	
				RS.	PS	RS.	PS
				IN WORDS & FIG			
41	Finishing walls with Premium Acrylic Smooth exterior paint of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	30.00	SQM				
42	Providing and fixing SS towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms.	2.00	EACH				
42	Providing and fixing SS towel ring trapezoidal/round shape 215 mm long, 200 mm wide with a minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	2.00	EACH				
44	Providing & Installation of single phase 1 HP, self priming water Pump(Kirloskar, Crompton, Havells etc), Sutable DOL starter, including s/w box electrical wiring.	1.00	EACH				
45	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works. using Steel angle angle 30x30x3 mm, Square rod , flat, and all locking arrangement for door.	150.00	Kg				
46	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work.	10.00	SQM				
47	Collecting conveying of debris / building rubbish, earth and excavated rocks etc., complete from factory premises to outside upto 20 kms lead including loading, unloading, all labours, hire charges of machinery etc., complete.	10.00	CUM				
A	Total						
B	GST @.....						
	Total (A +B)						

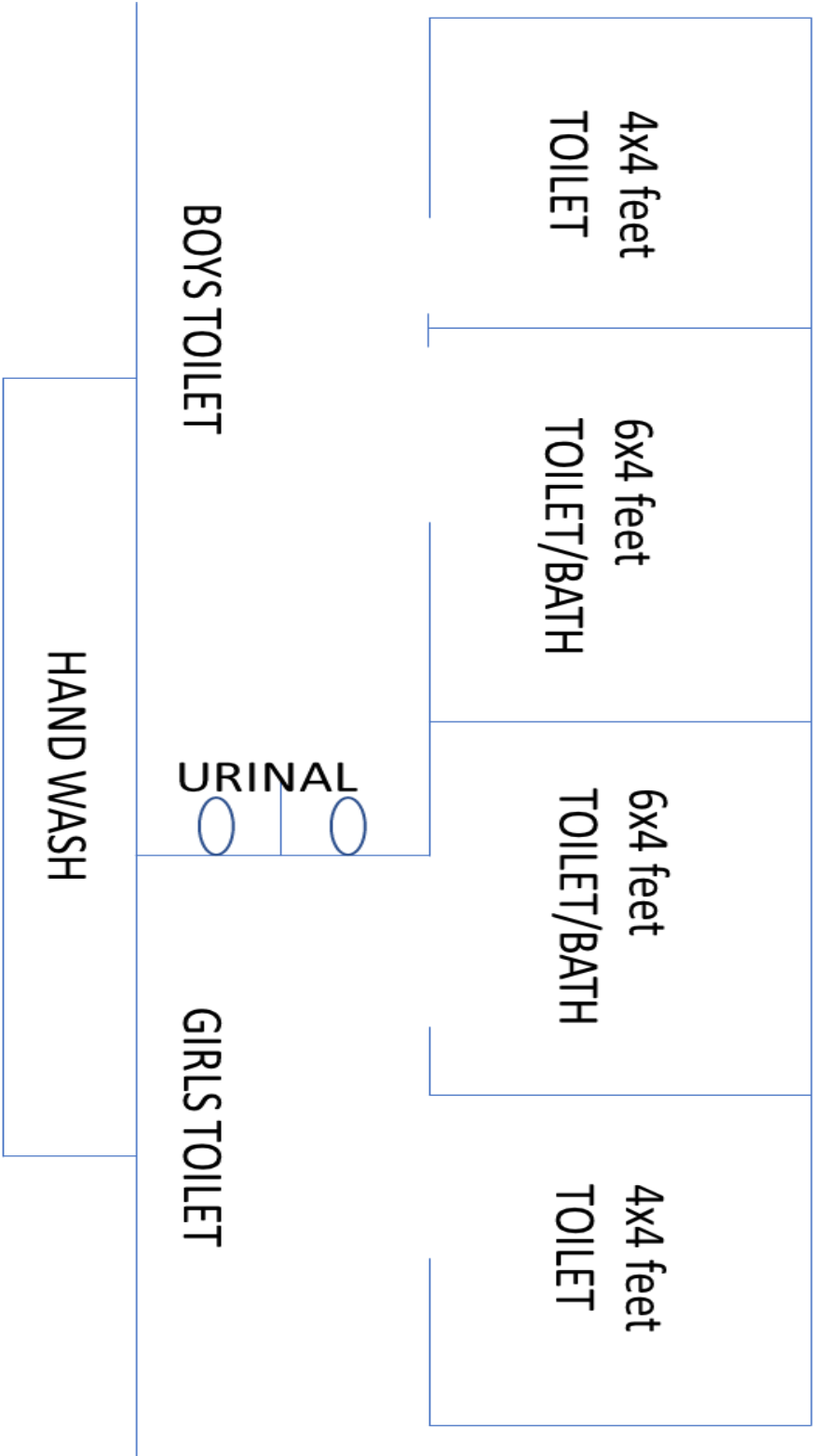
Amount in words:

CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪನಿರ್ದೇಶಕರು /ದಿ.ಸಂ.
 ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರಿ/ಉಪನಿರ್ದೇಶಕರು/ಉ.ಸಂ.
 K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
 BHEL-EDN, MYSORE ROAD, BANGALORE-560026

LAYOUT OF TOILET BLOCK



CONTRACTOR

EMPLOYER

ಕೆ.ಎ.ರವೀಂದ್ರ, ಉಪ ನಿರ್ದೇಶಕರು / ದಿ.ಸಂ.
ಕೆ.ಎ.ರವೀಂದ್ರ, 3ನೇ ಅಧಿಕಾರಿ/ಸಿ.ಇ.ಎಂ.
K.A.RAVEENDRA, DY. GENERAL MANAGER/HR
BHEL-EDN, MYSORE ROAD, BANGALORE-560026