



**BHARAT HEAVY ELECTRICALS LTD. NEW DELHI**

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HUMAN RESOURCE DEVELOPMENT INSTITUTE

(ADMINISTRATION DEPARTMENT)

**TENDER NOTICE NO. MG/SK/PUR/009**

Sealed quotations are invited in **Two Part Bid System (Techno- commercial Bid-Part: 1 & Price Bid-Part: 2, separately)** for **Waterproofing of Kitchen and Hostel Toilet Floor Areas** in HRDI & ESI building at Noida. Tender document can be collected from SAO, BHEL,HRDI, Plot no.25, Sector 16A, Noida -201301(U.P.) . Alternatively, tender document can also be downloaded from BHEL website [www.bhel.com](http://www.bhel.com) . Tender should be submitted in **Two Part Bid System only** on or before 1500 Hrs on 27/01/2009 and Techno-Commercial bid(Part-I) will be opened on 28/01/2009 at 1600 Hrs.

SAO

## **WATER PROOFING –KITCHEN & HOSTEL TOILET**

### **QUALIFYING REQUIREMENTS**

1. The bidder should have minimum 3 years experience in this field as on 31.3.2008 with an average financial turnover of over Rs 2.66 lakhs. Copies of audited Profit & Loss account and Balance Sheet for 2005-06, 2006-07 and 2007-08 to be enclosed.
2. Experience of having successfully completed similar works during last 7 years ending 30.9.2008 either of the following :-
  - a) Completed three civil works costing not less than Rs 3.54 lakhs  
or
  - b) Completed two civil works costing not less than Rs 4.43 lakhs  
or
  - c) Completed one civil work costing not less than Rs 7.09 lakhs

Bidder should furnish the following :-

### **DOCUMENTS REQUIRED**

The tenderer shall submit documents in respect of possessing Qualifying requirements as under duly certified and stamped by his authorized signatory:

- a) Proof of three previous years IT returns in support of Average Annual financial turnover as per clause (1) above.
- b) Proof of work orders or completion certificates in support of the qualifying criteria mentioned at clause 2.0 above.
- c) Each tenderer has to enclose the proof of TIN No.. and PAN No. alongwith the tender
- d) Tenderer has to submit the NO DEVIATION CERTIFICATE duly signed in the format mentioned.

Tender Enquiry No.MG/SK/PUR/009 dt 05/01/2009

Collection of Tender Documents: 24/01/2009  
Date of Tender submission:27/01/2009  
Date of tender opening; 28/01/2009 (1600 Hrs)

Sub: **Waterproofing of Kitchen and Hostel Toilet floor areas**

You are requested to submit your most competitive offer for Waterproofing of kitchen and hostel toilet floor areas at Noida as per scope, specifications, terms and conditions as given hereunder. You are advised to visit our office at the address indicated above for inspection of the premises, layout etc , prior to submission of your offer.

**Procedure for submission of sealed tender:**

The bidder must submit their Tender as required in three separate covers prominently superscribed as EMD, ( Part-I Technical requirements cum Commercial conditions ) and ( Part II- Price Bid) . Each cover should also indicate the Tender No., Due date and Time as mentioned above. Offer received without EMD will not be considered.

**Cover-I : Earnest Money Deposit (EMD)**

EMD of Rs 20,000/- (Rupees twenty thousand only) in the form of Demand Draft/Pay Order in favour of BHEL payable at New Delhi is to be placed in Cover-I. EMD given by all unsuccessful bidders will be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.

**Cover- II/ Part-I: Technical Bid:**

Please submit all information on qualifying requirements, copies of documentary evidence as asked for, Deviation Statement, duly signed and stamped as token of your acceptance to the tender conditions, your commercial terms and conditions. The cover to be properly sealed.

**Cover-III/Part-II: Price-bid**

One copy of your price details in the prescribed Price-Formats(Annexure-I) may be enclosed in Cover-III, duly sealed.

These three separate covers (Cover I, II & III) shall together be enclosed in a fourth envelope and this sealed cover shall be superscribed with Tender name, Tender No. Due date and Time and submitted to this office.

It may please be noted that in the event of award of contract, Security Deposit as due, shall be collected from the successful bidder. The EMD amount of successful bidder will be converted and adjusted against security deposit.

The quotation should reach this office latest by 1500 hrs on 27/01/2009 and the same will be opened at 1600 hrs on 28/01/2009 in presence of the representatives of the tenderers who choose to be present. Quotations received late or not received in line with the above procedure or not in the prescribed formats are liable to be rejected. The Cover -I containing EMD will be opened first. Part-I/Technical bid of only those bidders, whose EMD is found in order will be opened later on the same day. Part-II/ Price-Bid of only those parties who qualify in the techno-commercial bid will be opened later, for which separate intimation will be sent in due course of time.

(S K Kashyap)/SAO

## **SECTION– 1**

### **GENERAL INSTRUCTIONS TO TENDERERS.**

1. This tender specification as a whole, furnishing all the details and other documents as required in the following pages, shall be duly signed and sent in a sealed cover superscribing the name of work as given in the tender notice.
2. The tender shall address to: OFFICER INVITING TENDER AS INDICATED IN THE TENDER NOTICE.
3. Tenders submitted by post shall be sent as “REGISTERED POST ACKNOWLEDGEMENT DUE” and shall be posted with due allowance for any postal delay. The tenders received after the due date and time of opening is liable to be rejected. Telegraphic offers and offers received by telex may not be considered.
4. Tenders shall be opened at the time and date as specified in the tender notice in the presence of such of those tenderers or other authorized representatives who may be present.
5. The tenderers shall closely peruse all the clauses, specifications and drawings indicated in the tender documents before quoting. Should the tenderer have any doubt about the meaning of any portion of the Tender Specifications or find discrepancies/omission in the Drawings of the Tender documents issued are incomplete or shall require clarification on any of the technical aspect – scope of work etc., he shall at once contact the authority inviting the tender for clarification before the submission of the tender.
6. Before tendering, the tenderers are advised to inspect the site of work the environments and be acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later on ground of lack of knowledge.
7. Tenderer must fill up all the schedules and furnish all the required information as per the instructions in various sections of the Tender Specification. The information furnished shall be complete by itself.

#### **8. EARNEST MONEY DEPOSIT:**

Every tender must be accompanied by the prescribed amount of Rs 20,000/- towards Earnest Money Deposit either in Pay order or Demand Draft form.

8.1 Tenders received without Earnest Money in full in the manner prescribed above will not be considered.

8.2 The Earnest Money deposit of the successful tenderer shall be refunded/adjusted against Security Deposit, as the case may be.

8.3 In case of unsuccessful tenderers, the Earnest Money will be refunded to them after finalization of the tender without interest.

8.4 BHEL reserves the right of forfeiture of Earnest Money deposit in case the successful tenderer:-

- a) After opening of Tender, revokes/withdraws his tender within the validity period revises/alters his earlier quoted rates/conditions.
- b) Fails to communicate unqualified acceptance of Letter of Intent.
- c) Fails to start the work as may be indicated in the Letter of Intent.

9. Tenderer must fill up Deviation statement and price bid separately.

10. The tenderer shall quote the rates in English Language and international numerals. Those rates shall be entered in figures as well as in words. In case of difference in rates between words and figures THE LESSER of the two will be treated as valid rate. For the purpose of tender, the metric system of units shall be used.

11. All entries in the tender shall either be typed or be written in ink. Erasers and over writing are not permitted and may render such tenders liable to summary rejection. All cancellations and insertions shall be duly attested by the tenderer.

12. COMPLETION PERIOD : 60 Days from date of award of work.

**13. VALIDITY OF OFFER:**

THE OFFER SHALL BE KEPT OPEN FOR ACCEPTANCE FOR A MINIMUM PERIOD OF TWO MONTHS FROM THE DATE OF OPENING OF TENDERS.

**14. EXECUTION OF CONTRACT:**

The successful tenderer's responsibility under this contract commences from the date of issue of the Letter of Intent by Bharat Heavy Electricals Limited. The successful tenderer shall be required to complete the job within 60 days of placement of order.

**15. SECURITY DEPOSIT**

Upon acceptance of tender, the contractor within the time specified in the Letter of Intent/Work Order must deposit 50% of the Security Deposit before start of the work. The balance amount will be deducted from the monthly running bills of the contractor @10% of the value of each running bill till the total amount is fully recovered. The Security Deposit shall remain valid till the expiry of the maintenance period i.e. upto 6 months from the date of completion of work without carrying any interest. The total amount of Security Deposit will be 10% of the value of work.

If the value of work done at any time exceeds the accepted agreement value, the Security Deposit shall be correspondingly enhanced and the extra amount of Security Deposit shall be immediately deposited by the contractor or recovered from

payment due to him in the above manner. BHEL reserves the right of forfeiture of Security Deposit in addition to other claims and penalties in the contractual obligations or in the event of termination of contract as per terms and conditions of contract. It may be noted that in no case the Security Deposit shall be refunded/released prior to passing of final bill

## 16 **RETURN OF SECURITY DEPOSIT :**

If the contractor fully performs and completes the work in all respects to the entire satisfaction of BHEL and presents an absolute "No Demand Certificate" in the prescribed form and returns properties to BHEL taken, borrowed or hired by him for carrying out the said works, security Deposit will be released to the contractor after deducting all costs, expenses and other amounts that are to be paid to BHEL under this or other contracts entered into with the contractor. It may be noted that in no case the Security Deposit shall be refunded/ released prior to passing of final bill and completion of guarantee period of 6 months.

Interest shall not be paid on Security Deposit or on any moneys due to the contractor.

## 17 **REJECTION OF TENDER AND OTHER CONDITIONS:**

17.1 The acceptance of Tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever.

a) To reject any or all of the tenders.

If a tenderer expires after the submission of his tender or after the acceptance of his tender, BHEL may at its discretion, cancel such tender. If a partner of a firm expires after the submission of the tender or after the acceptance of the tender, BHEL may cancel such tender at its discretion unless the firm retains its character.

17.2 BHEL will not be bound by any power of Attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. BHEL may , however, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.

17.3 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract ,if awarded and forfeit the Earnest Money /Security Deposit/any other moneys due.

17.4 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract, if awarded and forfeit the Earnest Money/Security Deposit/ any other moneys due.

17.5 Canvassing in any form in connection with tender is strictly prohibited and the tenders submitted by the contractor who resorts to canvassing are liable to be rejected.

17.6 Should a tenderer or contractor or in the case of a firm or Company of contractors/one or more of its partners/shareholders/directors have relation or relations employed in BHEL, the authority inviting tender shall be informed to the fact alongwith the offer, failing this BHEL may, at its sole discretion reject the tender or cancel the contract and forfeit the Earnest Money Deposit/Security Deposit.

17.7 The successful tenderer should not sub-contract the part or complete work detailed in the tender specification without written permission of BHEL. The tenderer is solely responsible to BHEL for the work awarded to him.

17.8 No deviations to the tender condition will normally be accepted. However,if the tenderer insists for certain deviations to the conditions, financial implication thereof shall be loaded to the quoted price for evaluating the tenderer's offer.

## SECTION -II

### GENERAL TERMS AND CONDITIONS

The following terms & expressions shall have the meaning hereby assigned to them except where the context otherwise requires.

#### 1. MEASUREMENT OF WORK AND MODE OF PAYMENT

- 1.01 All payments due to the contractor shall be made by 'Account Payee' 'Cheque only.
- 1.02 Measurement will be done by the Engineer and quantities and percentages eligible for payment under different groups shall be decided by him. The abstract of quantities and percentages so arrived at based on the terms of payment shall be entered in the Measurement Book and signed by both the parties.
- 1.03 Based on the above quantities, contractor shall prepare the bills in the prescribed proforma and work out the financial value. These will be entered in the Measurement Book and signed by both the parties. Payment shall be made by BHEL after affecting the recoveries due from the contractor.
- 1.04 Measurement shall be restricted to that quantity for which it required to ascertain the financial liability of BHEL under this contract.
- 1.05 Measurement shall be taken joint by persons duly Authorised by BHEL and the Contractor.
- 1.06 The contractor shall bear the expenditure involved. If any in making the measurements and testing of materials to be used/used in the work.
- 1.07 The Contractor shall, without extra cost to BHEL, provide all the assistance with appliances and other things necessary for measurement.
- 1.08 If, at any time due to any reason whatsoever, it becomes necessary to premature the work done, in full or in part, the expenses towards such remeasurement shall be borne by the Contractor.
- 1.09 Passing of bills covered by such measurements does not amount to acceptance by BHEL of the completion of the work measured. Any left out work has to be completed by the Contractor, as directed.
- 1.10 Final measurement bill shall be prepared in the Performa prescribed for the purpose, based on the certificate issued by the Engineer that the entire work as stipulated in the tender specification of BHEL. The Contractor shall give unqualified 'No Claim' and 'No Demand' certificates. All the tools and tackles loaned to him should be returned in condition satisfactory to BHEL. The abstract of final quantities and financial values shall also be entered in the Measurement Book and signed by both the parties. The final bill shall be paid within a reasonable time after completion of the work. After the payment of final bill, only the guarantee obligation percentage

value shall remain unpaid which shall be released in accordance with payment terms.

## 2.0 RIGHTS OF BHEL

BHEL reserves to itself the following rights in respect of this contract without entitling the contractor or any compensation.

2.1 To get the work done through another agency at the risk and cost of the contractor, in the event of poor progress or the contractor's inability to progress the work for completion as stipulated in the contract poor quality of work, persistent disregard of instruction of BHEL, assignment, transfer, subletting of the contracted work without written permission of BHEL, non-fulfillment of any contractual obligations etc, and to claim/ recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from Security Deposit/other dues.

2.2 To withdraw any portion of work and/ or to restrict/alter quantum of work as indicated in the contract during the progress of work and get it done through another agency and/ or by the departmental labour to suit BHEL's commitments to its customer or in case BHEL decides to advance the completion due to other emergent reasons/ BHEL's obligation to its customer.

2.3 To terminate the contract after due notice and forfeit the Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event of:

- a. Contractor's continued poor progress.
- b. Withdrawal from or abandonment of the work before completion of the work.
- c. Corrupt act of the contractor.
- d. Insolvency of the contractor.
- e. Persistent disregard of the instructions of BHEL.
- f. Assignment, transfer, subletting of the contract work without BHEL's written permission.
- g. Non- fulfillment of any contractual obligations.

2.4 To recover any moneys due from the Contractor from out of any moneys due to the Contractor under this or any other Contract or from the Security Deposit.

2.5 To claim compensation for losses sustained including BHEL's supervision charges and overheads. in case of termination of contract and to levy liquidated damages **for delay in completion of work, at the rate of ½% of the contract value per week of delay or part thereof subject to a ceiling of 10% of the contract value.**

2.6 To determine the Contract or to restrict the quantum of work and pay for the portion of work done in case BHEL's contract with its customer is terminated for any reason.

2.7 To affect recoveries from any amounts due to the contractor under or any other contract or in any other form the moneys, which BHEL is forced to pay to anybody due to contractor's failure to fulfill any of his obligations.

2.8 To restrict or increase the quantity and nature of work to suit site requirements, since the tender specification is based on preliminary documents and quantities furnished their in are indicative and approximate and the rates quoted shall not be subject to revision.

2.9 To deploy BHEL's skilled and semiskilled workmen in case of emergency/poor progress/ deficiency in skill on the part of the employees of the contractor and to recover the expenditure on account of the same from the moneys due to the contractor.

3.0 While every endeavour will be made by BHEL to this end, BHEL can not guarantee uninterrupted work due to conditions beyond its control. The contractor will not be entitled to compensation/extra payment on this account.

3.1 In the event of any dispute of technical nature, the decision of BHEL shall be final and binding on the Contractor.

#### **4.0 RESPONSIBILITIES OF CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS, ETC.**

4.1 The following are the responsibilities of the Contractor in respect of observance of local laws, employment of personnel, payment of taxes etc.

4.2 As far as possible, unskilled workers shall be engaged from the local areas in which the work is being executed.

4.3 The contractor at all times during the continuance of this contract, shall in all his dealings with the local labour for the time being employed on or in connection with the work, have due regard to all local festivals, religious and other customer.

4.4 The Contractor shall comply with all state and central Laws, Statutory Rules, Regulations, etc., such as : The payment of wages Act, The Minimum Wages Act, The workmen's Compensation Act, The employer's Liability Provident fund Act, Employees, State Insurance Scheme.

4.5 The Contract Labour (Regulations and Abolition Act, 1970) and other Acts, Rules and Regulations for labour as may be enacted by the Government during the tenure of the contract and having force or jurisdiction at site. The contractor shall give to the local Governing Body, Police and other concerned Authorities all such notice as may be required under law.

4.6 The Contractor shall be responsible for proper accommodation including adequate medical facilities for the personnel employed by him.

4.7 The Contractor shall be responsible for the proper behaviour and observance of all regulations by the staff employed by him.

4.8 The Contractor shall ensure that no damage is caused to any person / property of other parties working at site. If any such damage is caused, it shall be the responsibility of the contractor to make good the losses and compensate them.

4.9 The contractor shall fully indemnify and keep indemnified BHEL / its customer against all claims of whatever nature arising during the course of execution of this contract.

4.10 In case the contractor is required to undertake any work outside the scope of this contract, the amount payable shall be as may be mutually agreed upon.

4.11 Any delay in completion of works or non - achievement of periodical targets, due to reasons attributable to the contractor, will have to be compensated by the contractor either by increased manpower and resource or by working extra hours or more than one shift at no extra cost to BHEL.

4.12 The contractor shall execute the work under the conditions usual to such power plant construction and in conjunction with numerous other operations at site. The contractor and his personnel shall cooperate and coordinate with other agencies at project site and proceed in a manner that shall help in the progress of work at site as a whole.

4.13 The contractor will be directly responsible for payment of wages to his workmen. A pay - roll sheet giving details of all payments made to the workmen duly signed by the contractor's representative should be furnished to BHEL, if called for.

4.14 In case of any class of work for which there is no specification laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.

4.15 No levy, payment or charges made or imposed shall be impeached by reason of any clerical error or by reason of any mistake in the amount levied, demanded or charged.

4.16 No idle labour charges will be admissible in the event of any stoppage of work resulting in the contractor's workmen being rendered idle due to any reason at any time.

4.17 The contractor shall take all reasonable care to protect the materials and the work till such time the plant / equipment has been taken over by BHEL / its customer.

4.18 Contractor shall not stop work or abandon the site for whatsoever reason or dispute, excepting for force majeure conditions. All problems / disputes shall be separately discussed and settled without effecting the progress of work. Stoppage or abandonment of work, other than under force majeure conditions, shall be treated as breach of work of contract and dealt with accordingly.

4.19 The contractor shall keep the area of work clean and shall remove the debris etc. While executing day - to - day work. Upon completion of work, the contractor shall remove from the vicinity of work, all scrap, packing materials, rubbish, unused and other materials and deposit them in places specified by the Engineer. The

contractor will also demolish all the hutments, sheds, offices, etc., constructed and used by him and shall clean the debris. In the event of his failure to do so, the same will be arranged to be done by the Engineer and the expenses recovered from the contractor.

4.20 The contractor shall execute the work in the most substantial and workman like manner in the stipulated time. Accuracy of work and timely execution shall be the essence of this contract. The contractor shall be responsible to ensure that the quality, assembly and workmanship conform to the dimensions and clearance given in the drawings and / or as per the instructions of the Engineer.

## **5.0 CONSEQUENCES OF CANCELLATION**

5.1 Whenever BHEL exercise its authority to terminate the contract /withdraw a portion of work, the work may be got completed by any other means at the contractor's risk and cost provided that in the event of the cost of completion (as certified by Engineer which shall be final and binding on the contractor) being less than the contract value, the advantage shall accrue to BHEL. If the cost of completion exceeds the moneys due to the contractor under the contract, the contractor shall either pay the excess amount demanded by BHEL or the same shall be recovered from the contractor. This will be in addition to the forfeiture of Security Deposit and recovery of liquidated damages as per relevant clauses.

5.2 In case BHEL completes the work under the provisions of this clause, the cost of such completion is to be taken into account for determining the excess cost to be charged to the contractor shall consist of cost of materials purchased and /or labour provided by BHEL with an addition of such percentage to cover supervision and establishment charges as may be decided by BHEL.

## **6.0 INSURANCE**

6.1 It shall be the sole responsibility of the contractor to insure his workmen against risks of accidents and injury while at work as required by the relevant Rules and to pay compensation, if any, to them as per workmen's compensation Act. The work will be shall also insure his staff against accidents. The work will be carried out in a protected area and all the Rules and Regulations of BHEL / its client in the Project Area which are in force from time to time will followed by the contractor.

6.2 If due negligence and / or non - observance of safety and other precautions, any accident / injury occurs to any other persons / public, the contractor shall pay necessary compensation and other expenses, if so decided by the appropriate authority.

6.3 The contractor will take necessary precautions and due care to protect the material, while in his custody from any damage / loss till the same is taken over by BHEL or customer. For lodging /

processing of insurance claim the contractor will submit necessary documents. BHEL will reserve the right to recover the loss from the contractor, in case the damage / loss is due to carelessness / negligence on the part of the contractor. In

case of any theft of material under contractor's custody, matter shall be reported to police investigation report shall be submitted to BHEL for taking up with insurance.

## 7.0 GUARANTEE

Even though the work will be carried out under the supervision of the Engineer, the contractor will be responsible for the quality of the workmanship and shall guarantee the work done for a period of six months from the date of completion of work as certified by the Engineer, and shall rectify, free of cost to BHEL, all defects arising out of faulty material and workmanship during the guarantee period starting from the date of completion of rectification. In the event of the contractor failing to repair the defective works with the time specified by the Engineer, BHEL may proceed to undertake the repairs of such defective works at the contractor's risk and cost, without prejudice to any other rights and recover the same from out of any moneys payable to the contractor or by other legal means.

## 8.0 ARBITRATION

8.1 All disputes between the parties to the contract arising out of or in relation to the contract, other those for which the decision of the Engineer or any other person is by the contract expressed to be final conclusive, shall after written notice by either party to the contract to the other party, be referred to sole arbitration of the General Manager or his nominee. The arbitration shall be conducted in accordance with the provision of the Arbitration and Reconciliation Act, 1996. The parties to the contract understand and agree that it will be no objection that the General Manager or the person nominated as Arbitrator had earlier in his official capacity to deal directly or indirectly with the matters to which the contract relates or that in the course of his official duties had expressed views on all or any of the matters in dispute or difference. The award of the Arbitrator shall be final and binding on the parties to this contract.

8.2 In the event of the Arbitrator dying neglecting or refusing to act or resigning or being unable to act for any reason or his award being set aside by the Court for any reason, it shall be lawful for the General Manager or his successor, as the case may be, either to act himself as the Arbitrator or to appoint another Arbitrator in place of the outgoing Arbitrator in the manner aforesaid.

The Arbitrator may, from time to time, with the consent of both the parties to the contract, enlarge the time for making the award. Work under the contract shall be continued during the arbitration proceedings. The venue of the arbitration shall be the place from which the contract is issued or such other place as the Arbitrator at his discretion may determine.

## DEVIATION STATEMENT

(Pl. Strike off the clause which is not applicable and ticks the other)

1. THIS IS TO DECLARE THAT WE DO NOT HAVE ANY DEVIATIONS IN THE STIPULATIONS OF YOUR TENDER AND ACCORDINGLY ACCEPT ALL THE STIPULATIONS WITHOUT ANY RESERVATIONS WHATSOEVER.

OR

2. WE HAVE NOTICED THE FOLLWING CONTRADICTION/DISCREPANCIES IN/BETWEEN THE TENDER STIPULATIONS

SI No	Section	Clause Para No.	Deviation	Reason/Justification

**(Signature of the bidder)  
With Company Seal**

Name

Company's name

Address

Date

**PRICE FORMAT**

<b>S.No.</b>	<b>Description.</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount.</b>
<b>1.00</b>	<b>DEMOLISHING WORK:-</b>				
1.01	<b>Demolishing R.C.C.</b> work (in any shape, grade & size) including cutting of all reinforcement bars, disposal of scrap bars, mulba or unserviceable material beyond site limit including loading, unloading & transportation for all lift & leads etc away from site.	Cum.	30		
1.02	<b>Demolishing of Existing defective</b> Brick work, Toilet dado tiles, Kota/Marble Stone Flooring, G.I/ C.I Pipes, toilet fixtures and False Ceiling etc. wherever necessary as directed by the Engineer In Charge. All serviceable materials are to be handed over to BHEL. The job shall be completed including disposal of unserviceable material / mulba beyond site limit including loading, unloading & transportation for all lift & leads etc. away from site as per Noida Authority norms.	M2	360		
				Total	
<b>2.00</b>	<b>CONCRETE WORK:-</b>				
2.01	Providing and laying plain cement concrete (20 mm nominal size aggregate) work in walls, Floors (any thickness) including cleaning brushing the existing surface, attached plasters buttresses, plinth and string courses, fillets etc., upto all levels including centring, shuttering and finished to obtain.				
	01:04:08	CU.M.	5		
	01:05:10	CU.M.	4		
	01:02:04	CU.M.	4		
				<b>TOTAL</b>	
<b>3.00</b>	<b>R.C.C WORK:-</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount.</b>
3.01	Providing & Laying in position <b>concrete</b> for R.C.C. of M-20 grade, including cleaning brushing the existing surface, compacting, curing complete for all heights / depths and in locations as given below :-	Cum.	4		
3.02	a) Suspended Floors, Columns, Walls, Roofs, Landings, balconies, shelves, stairs and landings, Lintel, beams, Girders, Bessemer's and cantilevers, U/G water tanks etc at all floors and at all heights.				

	Centring and shuttering including strutting, propping etc. and removal of form for:-				
	a) Suspended floors, roofs, landings, balconies and access platform.	Sqm.	60		
	b) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm.	20		
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding with existing reinforcements with wire all complete.				
	a) Thermo-Mechanically Treated Bars / Cold Twisted bars.	Kg.	2050		
3.04	Welding of reinforcement bars with overlaps as required including all welding rods, machinery, cables etc. all complete for all height.	R.M.	20		
<b>Note :-</b>	All rates are for work upto all heights as required .				
				<b>TOTAL</b>	
<b>4.00</b>	<b>BRICK WORKS:</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount.</b>
4.01	Providing and laying brick work of class designation 75 in <b>super-structure</b> in cement mortar 1:6 (1 cement : 6 coarse sand) including racking out joints, cleaning and soaking the bricks at least for 24 hours before use and necessary scaffolding, curing at least for 7 days etc. complete for all heights.	CU.M.	3		
4.02	Half brick masonry with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand)in super structure including providing and placing in position 2 Nos. 6mm dia M.S. bars at every third course of half brick masonry.				
	a) cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	65		
	<b>For item no. 4.01 &amp; 4.02</b>				
	NOTE:- Nothing extra will payable for rectangular, square, curved or champhered brick work.				
				<b>TOTAL</b>	
<b>5.00</b>	<b>WATERPROOFING:</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount.</b>

5.01	Supply and application of Penecrete Modified Mortar triangular fillets (38mm X 38mm) at joints between the walls and floor slabs as required. The application should be done after proper surface preparation around joints as prescribed by the manufacturer's application manual. The fillet joints should be coated with Seal Coat slurry as priming coat and then filled with Penecrete Morter and finally coated with a finishing coat of Seal Coat. Work shall be guaranteed for 10 years against any leakages.	R.Mts	235	Rate	Amount
5.02	Providing and application of INTEGRAL CRYSTALLINE waterproofing treatment of Penetron slurry coating (Equivalent to IS 2645 or IS 3085) over the concrete mother slabs of toilets & Kitchen (having speed of penetration of 31 Cms in 56 days and resistance to 16 bar hydrostatic water head on negative side). The proposed treatment shall be carried out as per following procedure:	SQM	154		
	The surface of the toilet concrete mother slab shall be cleaned with high pressure water jet / wire brush or by mechanical means to make it free from loose particles, dust, dirt etc. The surface shall then be saturated with water. The Penetron slurry shall be prepared by mixing water into the Penetron. For every 1 Kg of Penetron, 400ml water shall be used. Application of Penetron Slurry with the help of synthetic fibre brush @ 0.75 Kg per Sq. M. per coat in two coats ( 1.5 Kg. per Sq. M. ). Work shall be guaranteed for 10 years against any leakages.				
5.03	Supply and application of Penetron slurry coating (Equivalent to IS 2645 or IS 3085) over the wall surface after the cleaning procedure as described in the item above should be adopted before applying the Seal Coat Slurry. The slurry should be prepared by mixing water and Acrylic Polymer with Seal Coat (4.3 litre water + 1.3 litre Acrylic Polymer + 22.68 Kg. Seal Coat) and the mixer should be applied with fibre brush over the masonry wall @ 0.5 Kg. per Sq. Mts in two coats with an interval of 2-6 hours. Work shall be guaranteed for 10 years against any leakages.	SQM	200		
5.04	Repairing of core joints by applying PENIBAR (make - Penetron) after applying primer on both side of core ie pipe & slab alternatively. Filling the joint by Non shrink free flow grout. Work shall be guaranteed for 10 years against any leakages.	Each	60		
				<b>TOTAL</b>	

6.00	<b>SANITARY, SOIL, WASTE, VENT, WATER PIPES &amp; FITTINGS:</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount.</b>
6.01	Systematic removal of existing W.C s and storing the same in a designated store and refixing the same after finishing of Flooring works. The should be completed in all respect including all broken/missing fittings & accessories as directed by the Engineer In Charge.	Each	15		
6.02	Providing and fixing of as per existing type white glazed vitreous china European Wall Closet with solid plastic back seat and lid with CP brass hinges and rubber buffers, 1 flushing cistern with fittings, 15mm over flow GI pipe, concealed in wall with specials and brought down 150 mm above floor level complete with mosquito proof couplings, including cutting and making good the walls and floors wherever required:The Pipe connection with Pan shall be through Ethylene Vinile Acetate (EVA) copolymer Pan Connector of Multikwik make or as approved.	Each	3		
6.03	Providing and fixing Cast Iron sand cast Soil Waste and Vent pipes including all fittings ( plain or door ) i.e Bends, Junctions, Cawls, Offsets, Access pieces, Jointing with refined pig lead with 25mm deep lead joints including painting of pipes, cutting holes in walls and floors including fixing with MS Bat clamps 4mm thick, 25mm wide painted with 2 coats of bitumastic paint etc. as directed by the Engineer In Charge.				
a.	75 mm dia	Mtr	45		
b.	100 mm dia (Soil / Waste)	Mtr	30		
c.	150 mm dia (Soil / Waste Stack)	Mtr	5		
6.04	Providing and fixing Sand cast Iron `P' or `S' Traps of self cleaning design with or without vent arms complete including cost of cutting and making good the walls.				
a.	100mm inlet and 100mm outlet	Each	18		
b.	100mm inlet and 75 mm outlet	Each	17		
6.05	Providing and fixing GI pipes IS:1239, Class-C complete with GI fittings with all necessary accessories, specials viz. sockets, bends, tees, unions, cross, elbows nipples, short pieces etc. including painting of pipes ,cost of all materials, cutting pipes including cutting and making good the walls etc complete (Internal Work in chases or on surface).				
a.	15 mm nominal bore	Mtr	24		
b.	20 mm nominal bore	Mtr	22		
c.	25 mm nominal bore	Mtr	12		

6.06	Systematic removal of C.P bath fittings , tap fittings and other fixtures as required in each toilet & kitchen to facilitate renovation work and refixing the same in place including al accessories as required as directed by the Engineer In Charge.	16		
				<b>TOTAL</b>
<b>A.</b>	<b>LIST OF INDIAN STANDARD CODES:</b>			
	RELATED TO PLUMBING WORKS:			
	DESCRIPTIONS			CODES
	Vitreous			IS:2556 - 1974 (Pt-I) IS:2556 - 1981 (Pt-II) IS;2556 - 1984 (Pt-III)
	Cast Iron Cistern			IS: 774 - 1984
	Ball Valve			IS:1703 - 1977
	Cistern Brackets			IS: 775 - 1970
	Toilet Seat Cover			IS:2548 - 1983
	Vitreous China Cistern			IS:2326 - 1987 -
	Sand Cast Iron Pipes and Fittings		-	IS:1729 - 1979
	Spun Cast Iron Pipes and Fittings		-	IS:3989 - 1984
	GI Pipes			IS:1239 - 1979
	Galvanising for GI Pipes			IS:4736 - 1986
	Pipe Threads			IS: 554 - 1985
	Malleable Iron Fittings			IS:1879 - 1987
	Cast Iron Sluice Valves			IS: 780 - 1984
	Full Way Valves			IS: 778 - 1984
	Brass Ferrule			IS:2692 - 1978
	Stone Ware Gully Traps			IS: 651 - 1980
	RCC Pipes			IS: 458 - 1971

	Cast Iron Class LA Pipes				IS:1536 - 1989
	Cast (Spun) Iron Fittings				IS:1538 - 1976
	Pig Lead				IS: 782 - 1966
<b>B</b>	<b>LIST OF APPROVED MAKES OF MATERIALS:</b>				
	<b>PLUMBING WORKS:</b>				
<b>S.NO</b>	<b>ITEM DESCRIPTION</b>			<b>MAKES</b>	
1	CI Spun Soil Pipes			NECO Kapilansh	
2	GI Pipes / Black Steel Pipes			TATA	Jindal Hissar
3	Pig Lead				Refined as approved
4	GI Fittings (Malleable Cast Iron)		-	'R' BRAND UNIK	
5	Gunmetal Valves (Full Way Check and Globe Valves)		-	LEADER SANT	KIRLOSKER
6	Ball Cocks			LEADER SANT	
7	Stoneware pipes (SW)			PERFECT BURN	
8	Gully Trap			PERFECT BURN	
9	RCC Hume Pipes				Indian Hume Pipes Ramnik Enterprises Pragati
10	CI / SS Pipes and Fittings			IISCO Kesoram RIF	
11	CI Sluice Valves			Audco Kirkosker IVC	

				Venus	
				Kartar	
12	WC Seat Cover				Commander
				Diploma t	
				Champi on	
13	CI Manholes (Cover & Frame)			BC RIF NECO Kapilan sh	
14	GI Clamps, Suspenders, Dash Fastners etc			Hilty Intellote ch Lovely	
15	PVC Pipes			Suprem e Prince	
16	HDPE Tanks			Sintax Advanc e	
17	CP Fittings (bib-cock, Concealed Stop Cock Angle Valves, Pillar Cock, Mixer, Shower etc)	-	-	DRIPLE SS GEM PARKO JAQUA R	
18	Sanitary Wares			Hindust an	EID Perry Ltd
				Neycer	
19	Stainless Steel sinks			Neelkan th AMC Prestige Jayana	
20	XLPE Alum/Cu. Armoured 1100V grade cables	Havells	Gloster	CCI	
21	Pumps	KSB	Kirlosker	Calpeada	
22	Electric Motor	Siemens	ABB	Crompton	Kirlosker
23	Starter / MCCB / Contactors etc	L&T		Shenide r	

24	Auto Sensor for Urinals / Wash basin	AOS	TOSHI	Dripless	
25	Water Level Controller	Minilec	or as	approved	
26	WC Pan Connector			Intellotech	
27	Butterfly Valve	Audco	Kartar	Advance	
<b>C. LIST OF APPROVED MAKES OF MATERIALS :</b>					
1.00	Paints	Berger, Asian, Dulux, ICI or Approved equivalent.			
2.00	Laminates	Formica, Greenlam or Approved equivalent.			
3.00	(a) Vitrified, Ceramic Tiles	Kajaria or Approved equivalent.			
	(b) Glass Mosaic Tiles	Mridul or Approved equivalent.			
4.00	Plywood, Plyboard, Doors, etc.	BWP variety of Greenply, Duro, Century, Swastik, Kitply			
5.00	Synthetic Adhesive for joinery	Pidilite Fevicol only			
6.00	Cement Bonded Particle Board	Bison Panel.			
7.00	Locks	Dorset, Godrej or Approved Equivalent.			
8.00	Door Closers	Everite, Doorking or Approved equivalent.			
9.00	Knob and other Hardwares	Ebco, Earl Bihari, Dorset or approved equivalent.			
10.00	Plaster of Paris	Gypsum anhydrous only.			
11.00	Tile adhesives	Laticrete, Unitile, Bayer or Approved equivalent.			
12.00	Surface Sealing Compounds	Penetron, GE, Dow Corning, Metroark or approved equivalent.			
13.00	Synthetic Adhesive for joinery	Pidilite Fevicol only.			
14.00	Water Proofing Compounds	Penetron, or approved equivalent			
15.00	Float Glass / Mirror	Glaverbel, Saint Gobain or Approved Equivalent			
16.00	Sanitary Ceramics	Hindusthan or equivalent			

17.00	CP Fittings	Hindustan ,Jaguar, Dripless or equivalent			
18.00	Glass Reinforced Gypsum Acoustic Ceiling	Armstrong, Lloyd or equivalent			
19.00	Pre Painted Zinalume Steel Sheet Roofing	Satyam, Loydeck or approved equivalent			
20.00	G.I.Pipes	Tata or Jindal.			
21.00	Pre Cast Terrazo Tiles	Nitco or Approved Equivalent			
22.00	OPC Cement	Ultratech, ACC, Gujrat Ambuja or approved equivalent.			
23.00	Structural &Reinforcement Steel	Tata or Sail.			
24.00	Dashed fastner	Canon or Approved Equivalent			
25.00	Welding Electrode	Advani, Victor.			