

BHARAT HEAVY ELECTRICALS LIMITED

REGIONAL OPERATION DIVISION MUMBAI - 5

NOTICE FOR INVITING TENDER

TENDER NOTICE NO: RE:MUM:HRD:CW 0269:003 DATED : 9.05.2007

Subject: Tender for Repair Work at BHEL Flats New Tilak Nagar , Mumbai - 400089

Bharat Heavy Electricals Limited (BHEL), a Govt. of India Undertaking, owns a building comprising of 60 identical flats, each having covered area of 250 sq.ft. in a Building having 3 Blocks No 138,139,140 and located at New Tilak Nagar near Patrakar Building nearer to New Tilak Railway Station Mumbai – 400 089. BHEL invites proposals from Civil Contractors registered with State PWD, BMC , MBRR Board or any other State or Central Govt agency for Repair Work as follows.

Annexure – I : General Scope of Work

Annexure – II : Terms & Conditions.

Sealed Bids are required to be submitted separately in two parts as under:

- | | | |
|---------------------------------|---|------------|
| 1. Technical cum Commercial Bid | - | Envelope 1 |
| 2. Price Bid | - | Envelope 2 |

I - “ Technical Cum Commercial Bid” - Envelope 1

Bidders are required to enclose the following documents duly filled were ever applicable and signed on each page along with their stamp in the above envelope – 1 .

- 1) Part A of the Tender
- 2) Part B - Price Bid Format - **BLANK FORMAT**
- 3) General Scope of work – Annexure 1
- 4) Terms and conditions - Annexure 2
- 6) E.M.D of Rs 25000 / - Enclose DD - Payable in favour of “ M/s Bharat Heavy Electricals Ltd “
- 7) List of Materials - Annexure 3
- 8) Compliance Letter duly filled , Signed and Stamped .

II - “ Price Bid ”

- Envelope 2

Price Format (Part B) duly filled in (both words & Figures) , signed by Authorised Signatory and duly stamped .

“Both the sealed envelopes should be put in another envelope (Envelope – 3) superscribed with “Tender for Repair Work at BHEL Flats DN Nagar ”.

Bidders shall submit an EMD of Rs 25,000 by payment through DD and enclose the proof along with the Technical bid .

The Bidders shall visit the site and study our exact requirements and would take measurements of work to be done before submitting quotation. Your quotations have to be complete in all respects. All relevant portions of Part A & Part B should be filled. Incomplete quotations will not be considered. BHEL reserves the right to reject any or all quotations without assigning any reasons.

Bidders shall take the following points in consideration while submitting the bids:

- a) Bidders shall quote the rates in the prescribed Format in Part B .
- b) Authorised representative / consultant of BHEL shall inspect the work regularly during various stages of work.

The Bids addressed to Senior Manager (HR) must be submitted on or before 1530 hrs. on 25.05.2007 in the tender box placed at our office on the 15th floor, Centre I, World Trade Centre,Cuffe Parade, Mumbai – 400 005.

Bids received after the due time and date or through telegram / fax shall not be acceptable. Bids with any overwriting or erasures are likely to be rejected .Corrections if any must be signed by the Authorised Signatory with stamp of the bidders .

The Price Bid shall contain the rates for each item as each item itemwise as listed in enclosed Price bid Format - Part ‘ B ‘ .

The bids (Technical Bid) shall be opened in the office at 15th Floor at 1545 hours on 25.05.2007 in presence of bidders.

Price bid (Envelope – 3) of Bidders whose technical Bids are found to be acceptable will be opened subsequently with due information to the qualified bidders .

Thanking you,

Yours faithfully,
For and on behalf of BHEL

(Ramesh Sarma)
Senior Manager (HR)

Encl: As above.

BHARAT HEAVY ELECTRICALS LIMITED

REGIONAL OPERATION DIVISION MUMBAI - 5

PART – ‘A’

TECHNICAL CUM COMMERCIAL BID (TO BE FILLED IN BY BIDDERS)

TENDER NOTICE NO: RE:MUM:HRD:CW 0269:003 DATED : 9.05.2007

1. Name of the Party :
2. Address & Phone No :
3. Structure of the Party : Proprietorship / Partnership / Public Ltd
(Tick Mark as applicable) (Copy of relevant documentation to be enclosed)
4. Nature of work :
4. Tender Notice No & Date, Item No :
5. Payment of EMD - By / DD (Details) :
6. Particulars of experience / credentials :

Past Experience (Works Completed) in last 5 yrs
Details of minimum 3 works of 5 lakhs of each Repair and Renovation Work executed by you :
(Enclose Copy of Work Orders)
7. Details of Registration - Class of Registration as Civil Contractor with
Local PWD / BMC / MHADA (MBRR Board) – enclose copy
8. Financial Soundness (Value of Solvency Certificate) - Rs 10 Lakhs :
- enclose current (not less than 1 year) Solvency certificate from a scheduled Bank
9. Registration for your workers under Employees State Insurance Scheme (ESI) – ESI No
10. Provident Fund code allotted to your organisation for Remitting under Provident Fund Scheme
Code
11. PAN No with proof (in case not available, proof of having applied with acknowledgement from concerned authorities to be enclosed) :

Signature of the Bidder

General Scope of Work

As per the preliminary survey undertaken by BHEL's authorised Representatives, the work to be carried out as part of the scope of the Tender is given below :

Water proofing treatments :

1) Water Tanks:

At a number of places, the water drips on the Terrace roof from the Tank . After draining the stored water the Entire floor, side walls and ceiling of the water tank is to be scrapped / Emptied , re-floored to ensure that there is no leakage from any point. - It may include the following:-

- a) Application of cement slurry & polymer based water proofing treatment to inside surface of the tanks.
- b) Water tank column plastering and strengthening wherever required
Painting of water tank on the interior and exterior surface with "UNIGLOSS" water proof paint (two coats).
- c) Replacement of GI fittings for water lines / replacement of GI lines connected to water Tank , wherever required.

2) Water proofing of terrace:

- a) Roof cleaning and removal of all vegetation and fungal growth wherever required.
- b) Chipping / Chiselling out all existing loose decayed Plaster Surface (In Patch Work) of the roof & Staircase room Top, RCC Support Column Members of Overhead water Tanks ,without damage to structure were ever required in consultation with BHEL Representative / Consultant . The roof has to be re-floored / plastered in Patches maintaining proper gradient where ever required so that there is no accumulation of water on the top. The above indicated RCC Members shall be then Plastered , then Water Proofing Treatment shall be given as directed by the Engineer in Charge at the site .
- c) Any gaps / possible gaps between roof and side walls as well as entrance of rain water drainage pipes to be properly scrapped / chipped and filled to avoid any seepage to side walls etc.

3) Sanitation / Plumbing repair works at Terrace:

- a) Existing GI water supply lines of all Diameters wherever damaged shall be replaced by new ISI approved GI pipes as per Specification Listed in Annexure III , Bill of Quantities indicated in (Price Bid - Part B)
- b) Removal of branches of plants / small shrubs growing in walls, roots by chiselling the area, breaking the plaster if found necessary, applying chemicals to avert their re-growth, plastering the area from where plants / shrubs / roots have been removed

4) Repair of Pump House at Tilak Nagar:

- a) The pump house structure at Tilak Nagar has to be totally dismantled / demolished and again rebuilt with separate foundation for pumps and motors.
- b) Old / damaged G.I. pipe lines and fittings shall be replaced with ISI make pipes and fitting as the size & specifications listed in the BOQ and Annexure III .
- c) Repair of old motor pumps shall be Attended if possible , Alternately they shall be replaced with new Pumps .

Note :

- a. **The contractor shall undertake the sequence of repairs in a manner which would cause minimum disturbance to the residents, least noise and dust pollution, avoid any duplication of work, maximum safety of the residents and BHEL property must be ensured.**
- b. **The measurements indicated in the schedule of items in price bid formats are only indicative based on the preliminary survey carried out by us. (However, the Bidders must inspect the site and take actual measurements of the work to be carried out before preparing the bid and submitting to us.)**
- c. **Arrangements for drinking water through tankers from Municipal Authorities, till the time repairs are in progress and overhead tank is not usable, shall be made by the contractor for the residents of the building in their respective flats .**
- d. **Cleaning of roofs / associated area and disposal of all garbage, used pipes etc., would be the responsibility of the contractor.**
- e. **The methodology of various items of work shall be strictly in accordance with the technical / BOQ and as per the instruction given by the BHEL Representative / Consultant.**
- f. **During the course of Repairs to underground water tank and the Sumps the contractor shall provide alternative arrangements to store and pump the BMC water to the overhead tanks so as to maintain the routine water requirement of the flat owners due to the said repairs at the Contractor,s cost only .**

**BHARAT HEAVY ELECTRICALS LIMITED
REGIONAL OPERATIONS DIVISION
MUMBAI – 400 005**

ANNEXURE – II

Ref: RE:MUM:HRD:CW 0269:003 dated 9/05/07

TERMS AND CONDITIONS

1. Validity:

The Bid shall be valid for a period of 120 days from the date of opening of Tender

2. Completion Period:

Time is the essence of the contract. Work shall be completed in the earliest completion period but not later than four months from the date of award. The work shall be deemed completed on certification by BHEL 's authorised representative / Consultant .

3. Defect Liability Period

12 months from date of Completion of the Work . During this period the Contractor will rectify all defects / shortcomings arising out of the work executed by him , to the satisfaction of BHEL .

4. Tender Evaluation Criteria:

The Bids shall be evaluated based on the lowest total price (for all the items put together) mentioned in Part 'B' Price Bid, including all taxes, duties and Government Levies as applicable.

5. Splitting of Contract

BHEL reserves the right to split the Contract i.e in parts there of or divide the work in to convenient groups and award the work to more than one agency.

6. Safety during Execution

All safety measures as required under various statutes, Mumbai Municipal Corporation rules & regulations etc are to be followed in the course of execution of the work .Jute Kantan screen to the scaffolding of external side of the building including removing the same after completion of the work to be arranged by the Contractor as a safety measure at no extra cost.

7. Payment Terms:

90 % payment will be made within a month of successful completion of the total work as detailed in the BOQ as well as the General scope of Work . 10% payment shall be retained by BHEL and shall be paid after successful completion of the defect liability period (or you shall deposit an equivalent amount in Bank Guarantee in Favour of – Bharat Heavy Electricals Ltd to be revoked after the defect Liability Period of 12 months) .Payment will be made on actual measurement subject to a ceiling of 10 % of the specified quantity . The measurement shall be taken by the authorised representative of BHEL / Consultant jointly with the contractor . For this purpose the Contractor shall maintain a measurement book , BHEL's authorised representative / Consultant shall have the right to inspect the same at any time during the execution of the contract .

8. Risk Purchase:

In case the work described in Annexure I is not completed within the schedule mentioned as above, BHEL reserves the right to get total work / unfinished work through any other Contractor / agency at your cost and risk. The cost so incurred in this event will be deducted from the outstanding bills.

9. EMD

EMD of Rs 25,000/- shall be payable by each bidder and he shall enclose with his Bid the proof of payment accordingly . The payment shall be in the form of Pay Order / DD in favour of Bharat Heavy Electricals Ltd .The EMD shall be Refunded to the Unsuccessful Bidder after sending the Intimation for Rejection of the Bidder. In case of the successful Bidder the EMD shall be retained and get Converted as part of the Security Deposit and in either case shall not carry any interest.

EMD shall be forfeited by the bidder if

- (I) After opening the bid, the bidder invokes the bid submitted within the Validity Period or increases the quoted rates or puts additional conditions.
- (II) The Bidder does not commence the Work as per the LOI or Contract .
- (III) Offers without EMD enclosed shall be considered as unresponsive and therefore rejected

10. Security Deposit:

Security Deposit would be collected from the successful Bidder .

The successful tenderer is required to furnish a security deposit @10% of the contract value before the start of the work.

Security deposit may be furnished in any one of the following forms:

- i) Pay order, Demand Draft in favour of BHEL.
- ii) Local cheques of scheduled banks, subject to realisation.
- iii) Securities available from Post such as National Savings Certificates, Kisan Vikas Patras etc.
- iv) Bank Guarantee from scheduled banks / public financial institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The bank Guarantee format should have the approval of BHEL.
- v) Fixed Deposit Receipt issued by Scheduled banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/C BHEL duly discharged on the back.

Acceptance of security deposit against sl. nos. v) and (vi) above will be adjusted to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

Security deposit shall be released after successful finalisation of the contract with no claim on either side.

11. Clearing the site

The contractor shall clear the site after completion of works and before claiming final payment, otherwise BHEL will get the said things cleared / cleaned at contractor's cost which will be deducted from the Contractors bills/ retention money.

12. Water and Power

Water and Power to be used only for the purpose of carrying out the entire repair works mentioned above shall be provided free by BHEL.

13. Taxes and duties

Taxes and duties (if any) along with the rates are to be added to the price quoted in the Price Bid (Part B) .

14. Variation in Quantity

Permitted up to 10 % at the contracted rates, terms and condition

15. Additional work / Extra Items

In the course of execution of the Repair work, if it is felt technically desirable to execute some additional / extra work , the same shall be undertaken by the contractor without extending the completion period . The rates for such items shall be worked out as under: -

- 1) Derived from Similar Items of contract wherever possible .

- 2) If not possible to be derived from similar items of work of the above contract , then the rates of BMC PWD DSR 2006 – 07 for such similar items of work shall be used .

For non DSR items the rates shall be derived from Fundamentals i.e Rate Analysis taking into account various components that are taken into consideration by the Govt Authorities during formulation of their DSR and to this rate so arrived at 10 % shall be added to take into account the Profit and overheads of the Contractor. The decision of the BHEL Representative / Consultant shall be final in this account.

16. Materials

Materials of Approved Brand and manufacturers as per enclosed list (Annexure III) shall be used .

17. General Terms

BHEL shall have privity of contract only and will give instructions to the contractor or his authorized representative. BHEL will have nothing to do or be concerned with the employment of employees working for the contractor. The relationship between BHEL and the contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or an employer-employee relationship.

The contractor shall maintain regular contact with the designated employee(s) of BHEL/ Consultant and will interact on matters relating to the work awarded under this contract.

The decision of BHEL regarding interpretation of any of terms and conditions set forth in this agreement shall be final and binding on the contractor.

Any matter arising out of or in connection with the agreement shall be under jurisdiction of Court at Mumbai only .Not with standing anything contained in this Agreement, the contract may be terminated by BHEL without assigning any reason there of by giving a notice of 30 days to the contractor.

The contract will commence on date of Award of the Work Order and will remain valid for till the completion of all assignments.

Arbitrator in case of any arbitration / differences in execution of the contract shall be one of BHEL Executives at the level of DGM who shall be the sole Arbitrator and his decision shall be final

CONTRACTOR

Signature and Seal

(Letter of Compliance in Company's Letter Head)

Date :

To ,

M/s Bharat Heavy Electricals Limited ,
15th Floor World Trade Centre – 1 ,
Cuffe Parade , Mumbai – 5

Sub : Your Tender no RE : MUM : HRD CW 0269 :003 due on 25th May 2007 .

Dear Sir ,

With reference to your above tender, we hereby confirm that all the terms and conditions of your above Tender are acceptable to us and our offer is based on the same.

We have submitted the price bid in your price bid format only without any deviations /conditions.

We also confirm that if any deviations / conditions in the Price bid is mentioned , the same will not be entertained by BHEL

Thanking you ,

Yours faithfully ,

SIGNATURE AND SEAL OF THE BIDDER

ANNEXURE - III

RECOMMENDED BRANDS OF PRINCIPAL CONSTRUCTION MATERIALS / CHEMICALS TO BE USED FOR THE REPAIR WORK

Unless otherwise approved the following brands of Construction materials/ Chemicals shall be used for these works :

NAME OF CHEMICAL	ROFFE	FOSROC	SUNANDA	ANY OTHER SPECIFIED BRAND
RUST REMOVAL	RUST CLEAR RUST CLEAR ZR (ZINCRICH)	REBACLEAN RR NITAZINK PRIMER M	RUSTICIDE -SS	
PASSIVATOR COAT	SUPER CRETE -XL	NITOBOND STD	POLY ALK -FP	
BOND COAT	SUPER CRETE -XL	NITOBOND AP 35	POLY ALK -EP	
ACRYLIC BASED POLYMER	SUPER CRETE -XL	NITOBOND AR STD	POLY ALK -EP	
EPOXY RESIN + HARDENER	-----	-----	SUNEPOXY 358	
MICRO CONCRETE	CRETE REPAIR	RENDROC RGL	POLYCRETE -A	
HACK FREE BONDING	PLASTER BOND	NITOBOND AR STD	HACK AID PLAST	
GROUTING ADMIXTURE		CEBEX 112	SUNPLEX	
W/P ADMIXURE A) PLASTER ADMIXTURE B) TERRACE	PLASTER MASTER HY PROOF	CEBEX 112 CONPLAST WL		
SUPER PLASTICIZER	PLAST 330	CONPLAST P211	SUNPOLICRETE NGT	
CRACK FILLING WORKS	PLASTER COAT	RENDROC CS	POLYFILL-AR	
WATERPROOF ADMIXTURE (LIQUID)	HY PROOF	CONPLAST WL		

WATERPROOFING (POWDER)	HYTITE	WP 90		
POLYSULPHIDE SEALANT			SUNJOINT SEAL	

NAME OF CHEMICAL	SPECIFIED BRAND
EXTERIOR PAINT TEXTURISED BASED	SANDTEX / NITCOTEX
100% ACRYLIC EMULSION	OUTSHINE / SNOWCRYL-XT/ APEX
EXTERIOR PAINT CEMENT BASED PAINT	NITCO SNOWCEM ASIAN SUPER SNOWCEM / NITCOCEM
ENAMEL PAINTS	ASIAN / NEROLAC / J & N / ICI
GREYCEMENT	L & T, ACC, AMBUJA, BIRLA.
WHITE CEMENT	BIRLA /J.K.
CAST IRON PIPES	NECO/SIL
G.I.PIPES	TATA MAKE 'C' CLASS/ ZENITH/ JINDAL 'C' CLASS
PVC DRAIN PIPES/FITTINGS	SUPREME / PRINCE
A.C. PIPES / FITTINGS	GURU/EVEREST
TAPS & VALVES	ANY WITH ISI APPROVAL.

BILL OF QUANTITIES

GENERAL

1. The Bill of Quantities shall be read in conjunction with the Drawings, Conditions of Contract and Specifications as these documents are jointly explanatory and descriptive of the works included in the Contract.
2. General directions and descriptions of work and materials given elsewhere in the Contract documents are not necessarily repeated in the Bill of Quantities. Reference is to be made to the other documents for information.
3. The Contractor shall be deemed to have visited the site before preparing his Tender and to have examined for himself the conditions under which the work will be priced and all other factors affecting the execution of the work and the cost thereof.
4. The Quantities of work and material in the Bill of Quantities are not to be considered as limiting or extending the scope of work to be done and materials to be supplied by the Contractor. The quantities in the Bill of Quantities are an estimate of the amount of work but the work will be measured on complete and the contractor will be paid on the actual measurement of work approved by the Consultant.
5. Any special method of measurements used are stated at the head of or in text of the Bills of Quantities for the items affected. All other items are measured net in accordance with the drawings and no allowance has been made for wastage. I.S. code 1200 Standard mode of measurements shall prevail in case of any discrepancy/misunderstanding pertaining to the method of measurements.
6. A price or rate in figures is to be entered against the item in the Bill of Quantities, whether quantities are stated or not
7. The prices and rates inserted are to be the full inclusive value of the works described under the various items, including all costs and expenses which may be required for the completion of the work described, together with all cost and obligations set forth or implied in the Conditions of Contract, Specifications and the Drawings.
8. Some finishing items may be quantity-wise completely altered (either added or omitted) and the same shall not affect any rates quoted.
9. Where prices have been entered against Lumpsum items, payment for such affected items shall be made in proportion to the extent of which at the time of billing, works have been done at the discretion of the Consultant.
10. "Providing and Fixing" shall mean that the Contractor has to provide such materials not being procured and borne by the Employer, but which are required for the item and if no materials need be provided by the Contractor, the rate shall be on for fixing of the component covered in the item.
11. The work of repair items includes propping of slabs and beams by means of tubular steel props with top and bottom wooden runners, cross, bracings etc. as directed.

12. The work also includes separating and stacking serviceable material anywhere in the compound as directed and lowering and carting away all unserviceable material and debris from the site.

13. All cement mortar concrete items are inclusive of mixing, transporting, pouring, trowelling, temping, vibrating (wherever directed and applicable), providing plastisizers, wherever directed, curing, hacking the surfaces etc. complete.

14. 16/18 G. annealed binding wire and cover blocks as per directions shall be provided at no extra cost.

15. In case of hand mixing of concrete, wherever permitted, 10% extra cement shall be added at no extra cost.

16. Approved waterproofing compound shall be added in required dosages in all external plaster, brick bat coba etc. at no extra cost.

17. Only 43 grade cement of approved brand shall be used for non Structural works and for Structural works 53 grade cement of approved brand shall be used.

18. All the sanitary and plumbing work shall be carried out through a licensed plumber.

TENDER NO.RE:MUM:HRD:CW 0269:002
BHARAT HEAVY ELECTRICALS LIMITED
ROD : MUMBAI

PART 'B' – PRICE BID

SCHEDULE OF ITEMS

**NAME OF WORK : REPAIR WORK OF BHEL TOWNSHIP AT TILAK NAGAR,
CHEMBUR, MUMBAI**
**SECTION-'A' REPAIRS & WATER PROOFING OF UNDER GROUND WATER TANK &
DEMOLITION OF EXISTING PUMP ROOM & RECONSTRUCTING THE SAME .**

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
A	REPAIRS & WATER PROOFING OF UNDER GROUND WATER TANK				
1	Carefully <u>Chiseling/ Chipping out all existing loose decayed Plaster/Old gunitted layers</u> of Under ground water tank etc using Plaster Breaking machine and/or Well sharpened Chisel & Hammers at proper angles carting away the Debris outside of Building Premises etc complete. <u>P/A 20/25 mm thk sand faced plaster</u> to concrete members- brick work etc to <u>using approved screened and Pre washed River sand</u> including base coat of 13-15mm thick in C.M. 1:4 and curing the same for not less than three days and keeping the surface of base coat rough to receive the sand face treatment 6 to 8 mm thick of C. M 1:3 finishing the surface by taking out grains and curing for 7- 10 days, providing and mixing approved waterproofing compound in required quantities in both the coats complete as directed by the Consultants. Note: The rates shall be inclusive of Erecting Single/Double Bamboo scaffolding including fixing of Hessian clothing as instructed by the Consultants.	Sft	125		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING T LEVIES)	
				In Figures	In Wor
1	2	3	4	5	6
2	Chipping off existing loose, damaged Concrete from RCC member beyond main r/f. (if required in the opinion of the Consultant), carefully with chisel and hammer as directed including Wire brushing and washing of concrete Substrata and reinforcing bars as directed Upto a maximum .concrete thickness of 100 mm .	Sft	75		
3.	Providing and applying ‘Rusticide SS’ Rust passivator (or equivalent as specified in the List of Brand names)to existing r/f. bars .Including wire brushing, cleaning etc. Complete as directed. <u>The item shall be paid on actual Consumption of ‘Rusticide SS’ or equivalent.</u>	Lit’s	2		
4.	Providing and applying two coats of rust preventor slurry made out of “Polyalk Fixoprime” and cement (or equivalent as specified in the List of Brand names)in proportion 1:1.5 to existing r/f.bars as directed complete. The item shall be paid on actual Consumption of “Polyalk Fixoprime” or equivalent	Kgs	3		
5	Providing and applying bonding coat of slurry made out of “Polyalk EP”and cement (or equivalent as specified in the List of Brand names) in proportion 1:1 to concrete and r/f substrates complete as directed. Including surface preparation etc.Complete. The item shall be paid on the actual Consumption of “Polyalk EP” or equivalent.	Kgs	4		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
6	<p>Providing and applying “Polyalk EP” Polymer modified cement mortar (or equivalent as specified in the List of Brand names)in Required proportions to RCC members Including Hand packing , curing and making the surface rough for plastering etc. Complete as per specified and directed.</p> <p><u>The item Shall be paid on actual Consumption Of polymer latex “Polyalk EP” or equivalent.</u></p> <p><u>In Proportion of 1: 5: 15</u></p>	Kgs	10		
7	<p>Carefully <u>Removing old Waterproofing treatment & Plaster and Providing</u> and laying 50mm thick average <u>waterproofing</u> metal pieces coba including 12mm thick 1:3 bedding mortar, filling interstices with C.M. 1:5 and finishing the top with 20mm thick 1:3 C.M. Smooth toweling as per instructions including wattas, curing, mixing approved Water Proofing compound in required proportion etc. complete <u>for Under ground water tank</u></p>	Sft	160		
8.	<p>Carefully <u>Removing old Waterproofing treatment & Plaster of side walls and Providing waterproof plaster to under ground water tank insides (side walls)</u> 20mm thick in C.M. 1:3 with waterproofing compound in required proportion complete.</p>	Sft	700		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS.(INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
B	<u>DEMOLITION AND RECONSTRUCTION OF PUMP ROOM</u>				
1.	Carefully <u>cutting down or re-moving brick / concrete block masonry work</u> (including plaster) including scaffolding, disposing of Debris, cleaning etc complete as directed.	Sft	650		
2	Carefully <u>cutting down Existing RCC Elements, etc</u> (including plaster) complete including cutting weak reinforcement bars including scaffolding, disposing of Debris, cleaning etc complete as directed.	Cft	75		
3	Excavation in all type soils up to 2 meter depth and transporting excavated material from society premises.	Cft	140		
4	Filling murum of approved quality in plinth areas of pump rooms including watering, compaction etc complete as per Consultants instructions and directions.	Sft	200		
5	<u>Providing and laying rubble stones of 9" thk. for soling</u> , filling the interstices/voids with chips, metal, grit etc, watering ,compacting and consolidating it with wooden hammer/power roller to required slope and level etc complete as specified and directed. <u>(For Footing and Plinth Areas)</u>	Cft	175		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
6	Providing and casting in situ 4" thk cement concrete M150 (1:2:4) in plinth & below foundations including consolidation necessary formwork, machine mixing, compaction ,curing etc complete as specified and directed	Sft	200		
7.	Providing, cutting, bending and fixing Tor/Mild steel reinforcement at all positions including drilling holes upto 20mm dia and upto 1'0" length, tying with Annealed Binding wires, providing cover blocks of appropriate sizes etc complete as specified and instructed by the Consultants .	M.T.	0.50		
8.	Providing & laying concrete M200(1:1.5:3) for foundations including Plasticiser, compacting, formwork, providing cover blocks of appropriate sizes, curing complete(but excluding reinforcement).	Cft	45		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
9	Providing & (<u>laying concrete M200(1:1.5:3) for RCC Beams, columns etc</u> including Formwork, plasticiser, compacting, providing cover blocks of appropriate sizes and curing complete (<u>but excluding reinforcement</u>) Providing & <u>laying concrete M200(1:1.5:3) for RCC Beams, columns etc</u> including Formwork, plasticiser, compacting, providing cover blocks of appropriate sizes and curing complete (<u>but excluding reinforcement</u>)	Cft	230		
10	Providing & laying concrete M200 (1:1.5:3) for RCC Slabs and chajjas etc including Formwork, plasticiser, compacting , providing cover blocks of appropriate sizes and curing complete (but excluding reinforcement	Sft	230		
11	Providing and <u>constructing brick masonry Wall in C.M. 1:4</u> (0'-4 1/2" /0'-9" thk.) including scaffolding, curing, racking, out joints etc. complete as instructed & directed .	Cft	450		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
12	<p><u>Providing and applying 20/25 mm thk sand faced plaster</u> to concrete members- brick work etc to parapet wall insides, staircase room <u>using approved screened and Pre washed River sand</u> including base coat of 13-15mm thick in C.M. 1:4 and curing the same for not less than three days and keeping the surface of base coat rough to receive the sand face treatment 6 to 8 mm thick of C. M 1:3 finishing the surface by taking out grains and curing for 7- 10 days, providing and mixing approved waterproofing compound in required quantities in both the coats complete.</p> <p><u>Rates are inclusive of erection of scaffolding, making Pattas, Drip moulds, Corners etc as specified and directed.</u></p> <p><u>Sand shall be screened and washed on site (if necessary) for Silt Content less than 4 % and in confirmation to IS 383 Zone II</u></p>	Sft	700		
13	<p><u>Providing I.P.S. Finish over Pump room top slab and Pump Room floor areas</u> by laying Brick bats/ Metal pieces to the desired thickness and slope finished with cement mortar plaster of specified and required thk. in CM (1:4), with neat cement slurry including waterproofing compound, curing etc including making junction wattas etc complete as specified and directed.</p>	Sft	275		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
14	<u>Providing and Applying internal plaster</u> with 15mm thk. Cement plaster in CM (1:4) finishing with ' <u>Instant Neeru</u> ' of <u>Elephant Brand or equivalent</u> on the internal walls of the pump room	Sft	800		
15	Providing and fixing Fibre doors in Pump rooms with wooden frame & all required powder coated fittings & hardware fixtures etc. complete including painting of wooden frame with 3 coats of synthetic enamel paint of approved quality & shade as per consultants design & drg as instructed and directed	Nos.	3		
16	Providing and fixing partly glazed wooden windows for Pump rooms with wooden frame, M.S. safety bars & all hardware fittings & fixtures etc. complete including painting of wooden frame with 3 coats of synthetic enamel paint of approved quality & shade as per consultants instructions and directions etc complete.	Nos.	3		
17	<u>CEMENT BASED PAINT</u> <u>Providing & applying three coats of Cement based paint of Snowcem /Nitocem or equivalent brand</u> in Pump rooms and Under Ground water tank, etc. as per manufacturer's Specifications including, scaffolding, curing etc. all complete as instructed and directed by the Consultant.	Sft	1000		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
18	<u>Making foundations for Pump Installation in concrete M200 (1:1.5:3)</u> as per our design & drawings including Formwork, plasticiser, compacting , providing cover blocks of appropriate sizes and curing complete <u>(but excluding reinforcement)</u> .	Nos.	3		
19	Providing and fixing <u>C.I. Manhole covers with frame and proper locking arrangements</u> to Under ground water tanks as per Consultants instructions and directions etc. complete. <u>(Including painting with three coats of Synthetic enamel paint)</u>	Nos	3		
	<u>TOTAL OF SECTION –‘A’ WORKS</u>				

**SECTION-‘B’ –REPAIRS & WATER PROOFING OF OVER HEAD WATER TANKS
INTERNAL AND EXTERNAL) & TERRACE RELATED PLUMBING WORKS**

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
1	<p>Carefully <u>Chiseling/ Chipping out all existing loose decayed Plaster/Old gunitted layers (In patch work)</u> of Over head water tank etc using Plaster Breaking machine and/or Well sharpened Chisel & Hammers at proper angles carting away the Debris outside of Building Premises etc complete. <u>Providing and applying 20/25 mm thk sand faced plaster</u> to concrete members- brick work etc to <u>using approved screened and Pre washed River sand</u> including base coat of 13-15mm thick in C.M. 1:4 and curing the same for not less than three days and keeping the surface of base coat rough to receive the sand face treatment 6 to 8 mm thick of C. M 1:3 finishing the surface by taking out grains and curing for 7- 10 days, providing and mixing approved waterproofing compound in required quantities in both the coats complete as directed by the Consultants.</p> <p><u>Note:</u> The rates shall be inclusive of Erecting Single/Double Bamboo scaffolding including fixing of Hessian clothing as instructed by the Consultants.</p>	Sft	1000		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
2	Chipping off existing loose, damaged Concrete from RCC member beyond main r/f. (if required in the opinion of the Consultant), carefully with chisel and hammer as directed including Wire brushing and washing of concrete Substrata and reinforcing bars as directed Upto a maximum concrete thickness of 100 mm .	Sft.	200		
3	Providing and applying 'Rusticide SS' Rust passivator (or equivalent as specified in the List of Brand names)to existing r/f. bars .Including wire brushing, cleaning etc. Complete as directed. <u>The item shall be paid on actual Consumption of 'Rusticide SS' or equivalent.</u>	Lit's	5		
4	Providing and applying two coats of rust preventor slurry made out of "Polyalk Fixoprime" and cement (or equivalent as specified in the List of Brand names)in proportion 1:1.5 to existing r/f.bars as directed complete. The item shall be paid on actual Consumption of "Polyalk Fixoprime" or equivalent .	Kgs	7		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING 1 LEVIES)	
				In Figures	In Wo
1	2	3	4	5	6
5	<p>Providing and applying two coats of rust preventor slurry made out of “Polyalk Fixoprime” and cement (or equivalent as specified in the List of Brand names)in proportion 1:1.5 to existing r/f.bars as directed complete.</p> <p>The item shall be paid on actual Consumption of “Polyalk Fixoprime” or equivalent .</p>	Kgs	15		
6	<p>Providing and applying “Polyalk EP”Polymer modified cement mortar (or equivalent as specified in the List of Brand names)in Required proportions to RCC members Including Hand packing , curing and making the surface rough for plastering etc. Complete as per specified and directed.</p> <p><u>The item Shall be paid on actual Consumption Of polymer latex “Polyalk EP” or equivalent.</u> <u>In Proportion of 1: 5: 15</u></p>	Kgs	40		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING TAXES & LEVIES)	
				In Figures	In Words
1	2	3	4	5	6
7	<p><u>Making rough existing Waterproofing treatment & Plaster</u> and Providing 2 coats of rubberized Polymer of approved brand and laying 50 mm thick average <u>waterproofing</u> metal pieces coba including 12mm thick 1:3 bedding mortar, filling interstices with C.M. 1:5 and finishing the top with 20mm thick 1:3 C.M. Smooth troweling as per instructions including wattas, curing, mixing approved Water Proofing compound in required proportion etc. complete <u>for over head water tank bottom slab.</u></p>	Sft	800		
8	<p><u>Making rough existing Waterproofing treatment & Plaster of side walls</u> and Providing 2 coats of rubberized Polymer of approved brand <u>and Providing waterproof plaster to over head water tank insides (side walls and ceiling)</u> 20mm thick in C.M. 1:3 with waterproofing compound in required proportion complete.</p>	Sft	2150		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING TAXES & LEVIES)	
				In Figures	In Words
1	2	3	4	5	6
9	<u>Removing existing IPS finish water proofing treatment and Providing I.P.S. Finish over Over head water tank top slabs .</u> by laying Brick bats/ Metal pieces to the desired thickness and slope finished with cement mortar plaster of specified and required thk in CM (1:4), with neat cement slurry including waterproofing compound, curing etc including making junction wattas etc complete as specified and directed.	Sft	800		
10	Providing and fixing <u>C.I. Manhole covers with frame and proper locking arrangements</u> to over head water tanks as per Consultants instructions and directions etc. complete. <u>(Including painting with three coats of Synthetic enamel paint)</u>	Nos	12		
11	Removing and <u>re-fixing existing M.S. Ladders</u> of Over head water tanks with necessary repairs inclusive of three coats of Synthetic enamel paint etc complete as specified and directed.	Nos	6		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING TAXES & LEVIES)	
				In Figures	In Words
1	2	3	4	5	6
12	<p><u>CEMENT BASED PAINT</u> <u>Providing & applying three coats of Cement based paint of Snowcem /Nitcocem or equivalent brand</u> for Over head water tanks, etc. as per manufacturer's Specifications including, scaffolding, curing etc. all complete as instructed</p>	Sft	2500		
13	<p><u>Removing the existing G.I. water supply of all diameters</u> wherever corroded and <u>reusing the G.I. Pipes, which are in good condition</u> including thoroughly cleaning the old pipes, Providing & fixing New G.I.fittings/ Threadings, Cuttings jointing as specified scaffolding etc complete as directed by the consultant. d in required proportion complete.</p>	Rft	300		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING TAXES & LEVIES)	
				In Figures	In Words
1	2	3	4	5	6
14	<p><u>Removing the existing G.I. water supply</u> wherever corroded and replacing them with standard, <u>ISI approved G.I. pipes of 'C' Class TATA /ZENITH Make</u> including G.I. fittings/ threadings, cuttings, jointing and fixing with <u>M.S. Brackets & M.S. clamps (painted with 2 coats of anticorrosive paint)</u> as specified, scaffolding etc complete as directed by the consultant.</p>				
a	½" dia	Rft	100		
b	1" dia	Rft	100		
c	1 ½" dia	Rft	380		
d	2" dia	Rft	100		
15	<p>GUN METAL PEET/GATE VALVES Removing old Gate valves, Providing and fixing G.M. ISI approved Gate Valves of Leader or approved equivalent make including carrying out necessary threading, fixing Teflon tapes etc complete as instructed and directed.</p>				
a	1" dia	Nos	24		
b	1 ½" dia	Nos	18		
c	2" dia	Nos	3		

SI NO	DESCRIPTION	UNIT	QTY	RATE RS.(INCLUDING TAXES & LEVIES)	
				In Figures	In Words
1	2	3	4	5	6
16	<p align="center">GUN METAL FOOT VALVES</p> Removing old Foot valves, Providing and fixing G.M. ISI approved Foot Valves of Leader or approved equivalent make including carrying out necessary threading, fixing Teflon tapes etc complete as instructed and directed. 2" dia	Nos.	3		
17	<p><u>REPLACEMENT OF G.I. LINE PASSING THROUGH WALL (G.I.CONNECTORS)</u></p> Making hole in wall for removing Existing G.I. line (Avg. 1'-6" long) in OH/WT and Replacing the same with new 'C' class G.I. pipes including fittings like 'T', Elbow, etc., Applying two coats of Black Japan Paint, making good the hole with Cement mortar all complete to the Satisfaction of Engineer in charge.	Nos.	10		
TOTAL OF SECTION-'B' WORKS					

SECTION-‘C’ – PROVIDING P/F NEW RAILING AT TERRACE FLOOR LEVEL

SI NO	DESCRIPTION	UNIT	QTY	RATE RS. (INCLUDING TAXES & LEVIES)	
				In Figures	In Words
1	2	3	4	5	6
1	Providing and fixing 8 mm thk M.S. Plate (0'-6" x 0'-6") over stub column tops with 12 mm dia. Anchor fastners (2 Nos.) at terrace floor level for fixing G.I. Pipes as instructed & directed. <u>water tank bottom slab.</u>	No	45		
2	Providing and fixing G.I. pipe (1 ½" dia. "B'-Class) railing over M.S. Plates at terrace floor level including cutting, drilling/welding etc. complete as per Consultants design and drawing. (Including painting with 3 coats of synthetic enamel paint)	Rft	1500		
3	Providing and constructing brick masonry work in C.M. 1:4 @ Terrace floor level (0'-4 ½" x 0'-9" thk.) including scaffolding ,curing, racking, out joints etc. complete.	Cft	25		
	<u>TOTAL OF SECTION-‘C’ WORKS</u>				

ABSTRACT SUMMARY OF - WORKS

SI NO	DESCRIPTION	RATE RS. (INCLUDING TAXES & LEVIES)	
		In Figures	In Words
‘A’	REPAIRS & WATER PROOFING OF UNDER GROUND WATER TANK & DEMOLITION OF EXISTING PUMP ROOM & RECONSTRUCTING THE SAME .		
‘B’	REPAIRS & WATER PROOFING OF OVER HEAD WATER TANKS INTERNAL AND EXTERNAL & TERRACE RELATED PLUMBING WORKS		
‘C’	PROVIDING P/F NEW RAILING AT TERRACE FLOOR LEVEL)		
	GRAND TOTAL AMOUNT OF SECTION A, B, C WORKS		

RE:MUM:HRD:CW 0269:

09.05.2007

Control No.

M/s.

Dear Sir,

Sub: Tender for repair works at DN Nagar Township, Andheri, Mumbai

Ref: Tender Notice no. RE:MJUM:HRD:CW 0269:002 dated 09.05.2007

Please find enclosed the NIT for the above work. Kindly arrange to send your offer on or before 1530 hrs. on 25.05.2007.

Thanking you,

Yours faithfully,
For Bharat Heavy Electricals Limited,

(Ramesh Sarma)
Sr. Manager (HR)

Encl: as above.

