

**Tender Renovation and Repair of flat no. 687, 693, 711,  
729 & 735 at AGVC, Siri Fort, New Delhi**



**Bharat Heavy Electricals Limited**  
**BHEL House, Siri Fort, New Delhi-110049**  
Tel:011-66337403, Fax:011-66337428



Corporate Office, BHEL House, Sirifort, Asiad, New Delhi  
Tele No. 011- 66337403 (Phone), 011-66337428 (Fax)

No. AA: CORP: GAX: RENO: FIVE FLATS: 11-12  
Dt. 22.06.2011

Submission of tender enquiry on 05.07.2011 by 02.00 PM  
Due date for opening of bid on 05.07.2011 at 02.30 PM

**SUB: Renovation and Repair of flat no. 687, 693, 711, 729 & 735 at AGVC, Siri Fort, New Delhi**

Dear Sirs,

We are pleased to invite your tenders, in sealed covers for the subject work. The terms & conditions of the tender are mentioned below:-

**1.0 TERMS & CONDITIONS OF TENDER:**

- 1.1 Tender Enquiry No. & due date must be legibly superscribed on all the envelopes.
- 1.2 Tenders shall be received and opened on the due date and time as mentioned above in the presence of tenderers or their authorized representatives who may like to be present.
- 1.3 Tenders shall be strictly in accordance with the tender specifications. Any deviations shall be listed out separately.
- 1.4 Offers shall remain valid for 90 days period from the due date of submission of tenders.
- 1.5 BHEL shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.
- 1.6 Tenders received after due date & time are liable to be rejected.
- 1.7 BHEL reserves the right to increase or decrease the quantity  $\pm 15\%$  of contract value at the same rates and terms and conditions of this contract.
- 1.8 Tender should be submitted along with covering letter of the tenderer and duly signed on each & every page of the tender document, technical specifications and price bid.
- 1.9 Each tenderer has to deposit **EMD of Rs. 1,50,000/- (One lakhs fifty thousand only)** for the above job and the same will be in the form of Pay Order or Demand Draft only in favour of BHEL, payable at New Delhi. EMD submitted by tenderer will be forfeited if tenderer revokes his tender within validity period or increases his rates.
- 1.10 Each tender shall be accompanied by separate envelope carrying EMD as mentioned above failing which the tender will be rejected.

1.11 **Security Deposit:** Upon acceptance of tender, the successful tenderer must submit the security deposit of **Rs. 4 Lakhs + 5% of the amount exceeding Rs. 50 lakhs** in any of the following forms.

- i) Cash (as permissible in the income tax act)
- ii) Pay Order, Demand Draft in favour of BHEL
- iii) Local cheques of scheduled bank, subject to realization
- iv) Securities available from Post Offices such as National Saving Certificates, Kisan Vikas Patras etc. ( certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).
- v) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- vi) 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.
- vii) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.

(Note: In case of small value contracts not exceeding Rs. 10 lakhs and all SAS jobs, work can be started before Security Deposit is collected. However, payment can be released only after collection/ recovery of initial 50% Security Deposit).

- viii) EMD of the successful tenderer can be converted and adjusted against the security deposit.
- ix) The security deposit shall not carry any interest.

(Note: Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject 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 herewith).

- x) Security deposit shall not be refunded to the contractor except in accordance with the terms of the contract.

1.12 EMD of successful tenderer will be converted into security deposit and balance amount of security deposit will have to be deposited as per clause No. 1.11. EMD given by all successful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer. EMD shall not carry any interest.

- 1.13 Prices quoted by the tenderers will be firm and no escalation on account of labour or material or taxes or any reason whatsoever will be paid to the successful tenderer for execution of the above job.
- 1.14 Prices quoted by the tenderers should be inclusive of all taxes etc. as prevailing on Works Contract, but excluding service tax as applicable, for which the successful tenderer has to submit the tax deposit receipt proof for release of payment along with the bill submitted for the payment.
- 1.15 Evaluation of the Tenderers will be done on overall quote basis for the complete work and entire job will be awarded to the overall tenderer.
- 1.16 **Completion Time & LD:** Entire work has to be completed within 6 months from the date of award of work/LOI failing which liquidated damages will be imposed @ 1/2 % of the Gross Value for per day of delay, subject to a maximum of 10% of the Gross Value. LD will be calculated on the total value of Work Order.
- 1.17 **Payment terms:** One running bill will be paid at the intervening time for those items which have been completed in all respect and found satisfactory by EIC. Rest payment will be made through Final Bill at the end of work.
- 1.18 The successful tenderer will carry out the work as per specifications. In case of any doubt regarding the specification and its quality of work, Engineer in Charge's clarification and decision will be final and binding on him.
- 1.20 The successful tenderer has to carry out the work day and night without creating any nuisance to the neighborhood. No time extension will be allowed whatsoever be the reason. After handing over the site/flats the contractor will be responsible for the belonging of flats and materials brought by him for execution of job.
- 1.21 Tenderers are requested to go through the scope of work, visit the site location etc. and get fully acquainted with the work place and prevailing working conditions to get all their doubts clarified regarding the above work before submitting the offer. Engineer-in-charge's decision will be full and final in the event of any doubt.
- 1.22 The successful tenderer must comply to all statutory labour law regulations applicable to this contract like minimum wages act, timely payment of wages etc. including taking of insurance cover etc. for workers employed for this contract. Any obligation on account of the above will be the liability of the successful tenderer.
- 1.23 In case of any objection from any statutory / local authority, the successful tenderer has to liaison with them for smooth progress of work.
- 1.24 The successful tenderer will be responsible for the quality of the work and it is to be guaranteed for a period of one year from the date of completion of job.
- 1.25 Period of maintenance shall mean the period of one year which will be calculated from the date of completion of the works certified by the Engineer in accordance with conditions of the contract. The period of maintenance shall always be reckoned from the date of completion of the whole of the works as accepted / taken over by Engineer-in-charge.
- 1.26 The Tenderers are required to quote for the complete scope of work. Tenders for part of the work or incomplete in any respect are liable to be rejected. Tenderers

shall certify in the Techno- commercial bid that rates for all the items have been quoted.

- 1.27 Work order will be placed on lowest bidder for the complete scope of work i.e. Renovation and Modification of flat no. at AGVC, Siri Fort, New Delhi for which the bidder has qualified in the Techno-commercial Bid and subsequently has emerged as lowest bidder in the evaluation of price bid.
- 1.28 Penalty will be levied by BHEL as per relevant clauses of the Tender on account of delay, violation of contract conditions and non-performance of the Contractor.
- 1.29 All documents submitted by the Tenderer in his tender shall be accompanied with a covering letter giving index interlinking all the documents.
- 1.30 BHEL reserves the right to accept or reject any of the bid / all bids with or without deviation or cancel / withdraw the invitation for bid without assigning any reason whatsoever and in such case no tenderer shall have any claim arising out of such action by BHEL.

## **2.0 QUALIFYING CRITERIA FOR THE TENDERERS:**

Bids are invited from technically capable & financially sound

- 2.1 Average Annual financial turnover during the last 3 years, ending on 31<sup>st</sup> March' 2010, should be at least **Rs. 37.00 Lacs.**
- 2.2 Contractors / System integrators having experience of successfully completion of similar works during last 7 years ending on 31.05.2011 should be either of the following : -
  - a. Three similar completed works each costing not less than the amount equal to 40% of the estimated cost i.e. **Rs. 25.00 Lacs.**  
**OR**
  - b. Two similar completed works each costing not less than the amount equal to 50% of the estimated cost i.e. **Rs. 31.00 Lacs.**  
**OR**
  - c. One similar completed work costing not less than the amount equal to 80% of the estimated cost i.e. **Rs. 49.50 Lacs.**
- 2.3 Tenderers must have valid registration no. of **PAN No. , VAT / TIN No. , Service Tax No.** which they have to submit during submission of bid. Proof of valid PF & ESI registration No. will have to produce by the bidders at the time of submission of bill.

**Note:** 'Similar works' mentioned in Para 2.2 above shall necessarily include "Construction, renovation, modification, repair & maintenance of **buildings** with any Central Govt. / State Govt. / PSUs / Public Limited Company."

## **3.0 DOCUMENTS REQUIRED:**

- 3.1 The Tenderers should submit documents in support of possessing Qualifying requirements as under, duly certified and stamped by their authorized signatory:
  - a) Copy of income tax return of previous three years ( actual copy of FY 08-09, 09-10 & for FY 10-11 copy of Balance sheet, PL A/c duly certified & audited by CA) and work orders alongwith BOQ and completion certificates in support of the qualifying criteria mentioned at clause no. 2.0 above with covering letter /

indexing of the same. Tenderer shall also submit covering letter with calculation of average financial turnover of previous three years and description of successfully completed work in support of 2.1 and 2.2 respectively.

- b) Tenderer has to submit a copy of registration certificate of **PAN No. , VAT/TIN No.**. If the contractor has the valid PF & ESI registration No. the proof of those may be submitted.
- c) Un-priced price bid format duly signed by the tenderer shall be submitted along with technical bid by mentioning 'Q' in the column where quote is to be offered by the bidder.
- d) A copy of tender enquiry duly signed on each and every page shall be submitted along with technical bid.
- e) Tenderer has to submit the **No Deviation Certificate** duly signed in the format mentioned in **Annexure – A.**
- f) Tender has to be submitted with contact address and e-mail ID etc. duly filled and signed as placed in **Annexure-B.**

#### **4.0 PROCEDURE FOR SUBMISSION OF TENDERS:**

- 4.1 The tender is to be submitted as required in two parts in separate sealed covers **prominently superscribed as Part-1 “Techno-commercial Bid” & Part-2 “Price Bid”** and also indicating on each of the covers the tender specification number and due date and time as mentioned in the tender enquiry. Envelope of Part-1“Techno-commercial Bid” shall contain documents required in Para 3.0 above and Part-2 “Price Bid” shall contain price bid duly quoted in the BOQ format. A third sealed cover shall contain required amount of EMD and shall be super scribed as EMD. These three separate covers 1, 2 and 3 shall together be enclosed in fourth envelope and this sealed cover shall be superscribed with tender specification number / numbers and due date. Tenders submitted without EMD are liable to be rejected. Checklist (enclosed) shall be placed inside the fourth envelope.
- 4.2 Envelope No. 3 containing EMD will be opened first and after due verification of EMD as per clause No. 1.9, the Part - 1 of the tender will be opened next and evaluated afterwards. Tenderers who qualify in Technical Bid (Part – 1) will only be considered while opening of Price Bid (Part – 2). The unsuccessful tenderers will be intimated through email for rejection in the technical bid. BHEL may finalize successful tenderer by **opening of sealed price bid or by conducting online Reverse Auction**. Date of opening of sealed Price Bid / conducting of online Reverse Auction will be intimated separately to the Tenderers who qualify in the Techno-Commercial bid.
- 4.3 Tenders should strictly be in accordance with the tender specifications & General Instructions to the Tenderer enclosed herewith.
- 4.4 The Tenderer should accept all terms & conditions of the tender unconditionally. In case the Tenderer wants to deviate from the tender conditions, such deviations shall be clearly specified in his tender. If no deviations are given in tender submitted, it will be assumed that the Tenderer accepts all terms and conditions of the tender.
- 4.5 Tenders with deviations from terms and conditions are likely to be rejected.

- 4.6 Clarifications, if any, of Technical / Commercial nature, can be obtained from the officer to whom the tender is to be submitted or from New Delhi office at the address given up to one week before the tender due date.

**6.0 SCOPE OF WORK:**

-----

Sl. No.	Description of work	Unit	Qty	Rate (Rs.)
---------	---------------------	------	-----	------------

-----

6.1 As per Bill of Quantity enclosed at **Annexure-I**

-----

The tender(s) should reach the under mentioned on or before the due date mentioned above. BHEL will not be responsible for delay in receipt of tender(s), sent by post / courier. The same shall be opened on scheduled date and time. Tenderers may provide their e-mail ID for faster communication in respect of the above.

V. K. Singh  
Sr. Manager (HR-GAX)  
Bharat Heavy Electricals Limited  
BHEL House, Siri Fort, New Delhi – 110049.  
Phone No.: 011 - 66337403, Mobile No.: 9818673036  
Fax: 011 - 66337428 , E-mail: vksingh@bhel.in

For & on behalf of  
Bharat Heavy Electricals Ltd.

(V. K. Singh)  
Sr. Manager (HR-GAX)

Enclosures: As above

**Annexure-A**

**NO DEVIATION CERTIFICATE**

“No deviation from tender conditions of tender enquiry and scope of services mentioned in BOQ”.

Signature and Seal of the Bidder
----------------------------------



**Annexure-B**

<b>Sl. No.</b>	<b>Description</b>	<b>Details</b>
1	<b>Name of the Bidder</b>	
2	<b>Address of the bidder</b>	
3	<b>Contact Person's Name</b>	
4	<b>Cell No. of Contact Person</b>	
5	<b>Land Line No.</b>	
6	<b>FAX No.</b>	
7	<b>E-mail ID of the Bidder</b>	

Sign and seal of Bidder

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**BHEL House, Siri Fort, New Delhi - 110049**

**Name of Work: RENOVATION & REPAIR OF FLAT No. 687, 693, 711, 729 & 735  
AT ASIAD VILLAGE, NEW DELHI.**

S. No.	DESCRIPTION	UNIT	QTY	RATE (Rs.)
<b>1</b>	<b>BRICK WORK</b>			
1.01	Brick work with F.P.S bricks of class designation 75 in super structure above plinth level up to floor V level in all shapes & sizes in -1:4 cement mortar	cum	5	
1.02	Half brick masonry with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	10	
<b>2</b>	<b>CONCRETE WORK</b>			
2.01	Providing & laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level - 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size ) .	cum	10	
2.02	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.	per bag of 50 kg. of cement used in the mix	64	
2.03	Reinforced cement concrete work in arches, archibs, domes, vaults, shells, foded plate and roofs having slope more than 15° up to floor five level excluding the cost of centering and shuttering finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	Cum	3	
2.04	Centering and shuttering including propping , strutting, etc. and removal of the form for Suspended floors, roofs, landings, balconies, and access platforms	Sqm	30	
2.05	Reinforcement for RCC work including streightening cutting bending, placing and binding all complete: Cold twisted	Kg	50	
<b>3</b>	<b>WATER PROOFING WORK</b>			
3.01	Providing & laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with Armourcrete of M/s The Structural Water Proofing Company Pvt. Ltd. or Tapecrete of M/s CICO Engg. Service consisting of applying: a) First layer of slurry of cement @ 0.488 Kg/sqm mixed with Armourcrete or Tapecrete @ 0.253 Kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 Kg/sqm mixed with Armourcrete or Tapecrete @ 0.126 Kg/sqm. This layer will be allowed to air cure for 4	sqm	85	

	hours followed with water curing for 48 hours. The rate includes preparation of surface treatment and sealing of all joints, corners, junction of pipes and masonry with polymer mixed slurry.			
<b>4</b>	<b>PLASTERING &amp; FINISHING WORK</b>			
4.01	15 mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement : 3 fine sand)	sqm	1200	
4.02	Applying one coat of cement primer of approved brand and manufacture on wall surface - Cement Primer	sqm	2750	
4.03	Wall Painting with plastic emulsion paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	2750	
4.04	Painting with enamel paint of approved brand and manufacture alongwith required primer etc. complete to give an even shade - Two or more coats on new work	sqm	300	
4.05	Finishing wall with water proofing cement paint of required shade on exterior walls -old work(one or more coats applied @2.20kg/10sqm) over priming coat of primer applied@080ltrs/10sqm	sqm	150	
4.06	French spirit polishing - Two or more coats on new works including a coat of wood filler.	sqm	450	
4.07	Malamine polishing coat on wood work (one or more coat) to give malamine finish on over and above item.	sqm	450	
4.08	Washed stone grit plaster on exterior walls of height upto 10m above level in two layers, under layer 12mm cement plaster 1:4(1cement:4coarse sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2kg of cement per sqm,top layer 15mm cement plaster 1:1/2:2(1cement:1/2coarse sand:2stone chippings10mm nominal size) in panels with groove all around as per approved pattern including scrubbing& washing, the tpo layer with brushes & water to expose the stone chippings,complete as per specification as per E.I.C(payment for providing groove shall be made seperately)	sqm	25	
4.09	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth	Sqm	2750	
<b>5.00</b>	<b>WOOD &amp; STEEL WORK</b>			
5.01	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second class teak wood (Ghana Brand)	cum	7	
5.02	Providing and fixing ISI marked flush door shutter non-decorative type , core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains of cross bands and face veneers on both faces of shutters - 35mm thick including anodised aluminuim butt hinges with necessary screws.	sqm	110	
5.03	Extra for providing and fixing flush doors with teak veneering on both side in above item of 35 mm thick flush door shutter .	sqm	220	

5.04	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters ( over all area of door shutter to be measured ) Over item the above two items	sqm	110	
5.05	P/F wooden moulded beading to door and window frames with iron screws, pugs, and priming coat at the junction of frame and wall- 2nd class teak wood 50 X 12 mm	M	750	
5.06	Providing and fixing glazed shutters for doors, windows and clerestory windows using 10 Kg/Sqm (4 mm thick) glass panes including black enamelled M.S. butt hinges with necessary screws - 35 mm thick - second class teak wood.	sqm	110	
5.07	Providing and fixing wire gauged shutters using galvanised M. S. wire gauged of average width of aperture 1.4mm with wire dia. 0.63mm for doors, windows and clerestory windows including ISI marked SS butt hinges with necessary screws - 35 mm thick - second class teak wood.	sqm	125	
5.08	Providing and fixing bright finished chrome plated brass tower bolt of thickness 10 mm with necessary screws etc.complete - 250 x 10 mm	each	50	
5.09	Providing and fixing bright finished chrome plated brass tower bolt of thickness 10 mm with necessary screws etc.complete - 150 x 10 mm	each	250	
5.10	Providing and fixing bright finished chrome plated brass handles with screws etc .complete-125mm	each	300	
5.11	Providing and fixing magnatic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete ( Best make of approved quality). - Triple strip vertical type	each	100	
5.12	Providing and fixing bright finished crome plated brass casement stays (stright peg type) with necessary screws etc. complete - 250mm weighing not less than 280 gms	each	100	
5.13	Providing and fixing bright finished chrome plated brass hanging type floor door stopper with necessary screws etc.complete	each	40	
5.14	Providing and fixing aluminium sliding door bolt ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868 ) transparent or dyed to the required color or shade with nuts and screws etc. complete - Size 300 X 16mm	each	40	
5.15	P/F M.S. grills of required pattern in frames of windows etc. with M.S. flat, square and round bars etc. all complete. Fixed to openings, frames with rawl plugs screws etc.	Kg	2500	
<b>6.00</b>	<b>FLOORING WORK</b>			
6.01	Marble stone flooring with 18mm thick marble stone(sample of marble shall be approved by Engineer-in Charge) over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and mirror polishing on marble work to give high gloss finish complete with - Agaria White.	Sqm	570	
6.02	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 of approved make in all colours and shades of any size as approved by	sqm	527	

	engineer-in-charge in skirting .risers of steps and dados over 12mm thick bed of cement mortar 1:3(1 cement:3 coarsesand) and jointing with grey cement slurry @3.3 Kg per sqm including pointing in white cement mixed with pigment of matching shade complete			
6.03	Providing and fixing 18 mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc. complete at all levels- With Black Granite	sqm	15.5	
6.04	Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	each opening	5	
6.05	Kota stone slab flooring over 20mm thk base laid over and joined with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4-25mm thk	sqm	255	
<b>7.00</b>	<b>SANITARY &amp; DISMANTLING WORK</b>			
7.01	Providing and fixing G.I. Pipes complete with G.I. Fittings and clamps including cutting and making good the walls etc. (Internal Work). Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall.			
	i) 15mm nominal bore	metre	370	
	ii) 40mm nominal bore	metre	50	
7.02	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10litre low level white vireous china flushing cistern & C.P. flush bend with fitting & C.I. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal desin complete including painting of fittings and brackets, cutting and making good walls and floors wherever required:			
7.03	W.C. pan with ISI marked white solid plastic seat and lid	each	15	
7.04	Extra for using coloured pedestal type W.C.pan (European type / Angloindian type) with low level cistern of same colour instead of white vitreous china w.c pan and cistern	each	15	
7.05	Providing and fixing wash basin with C.I. Brackets 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls whenever required:as per direction of EIC. White vitrious China wash basin size 550 X 400 with a pair of 15 mm C.P. brass pillar taps	each	15	

7.06	Providing and fixing C.P brass stop cock (Concealed) of standard design of approved make conforming to IS:8931	each	30	
7.07	Providing and fixing C.P brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore	each	90	
7.08	Providing and fixing toilet Paper holder : CP Brass	each	15	
7.09	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required: Kitchen sink without drain board 610 X 460 mm bowl depth 200 mm	each	5	
7.10	Providing and fixing w/c 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 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 580x440mm with integral type foot rests	each	5	
7.11	Dismantling of tile work in floors and roofs laid in cement mortar including stacking materials within 50 m lead. For thickness of tile 10 to 25 mm	Sqm	2230	
7.12	Taking out of doors and windows and clerestory window shutters (steel or wood ) including stacking within 50 m lead. Of area 3 Sqm. and below	Each	117	
7.13	Dismantling GI pipes (external work) including excavation and refilling trenches after taking out pipes, manually/ by mechanical means including stacking of pipes within 50 m lead as per direction of EIC. 15 mm to 40 mm nominal dia	m	224	
7.14	Dismantling of CI pipes including excavation and refilling of trenches after taking out the pipes, manually/mechanical means breaking lead caulked joints, melting of lead and making of blocks including stacking of pipes & lead at site within 50 m lead as per direction of EIC. Upto 150 mm dia	m	224	
7.15	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 m lead	each	15	
7.16	Dismantling of cement concrete manually / by mechanical means including disposal of material within 50 m lead as per direction of EIC. 1:3:6 or rich mix	Cum	29	
<b>8.00</b>	<b>CIVIL WORK MISCELLANEOUS ITEMS</b>			
8.01	Dismantling and removal of old defective/ damaged plasters, CP fittings etc. and preparing the surface for plaster including disposal & stacking of material at ground floor within 50 metres lead including lifting and taking out the unusable mulba outside the BHEL premises at the risk and cost of contractor and upto the satisfaction of Engineer-in-Charge. (Complete job required for all flats)	Job	5	
8.02	Providing and applying anti-termite treatment of soil under existing floor using chemical emulsion @ 1 m per hole 300 mm apart including drilling 12 mm dia	Sqm	764	

	holes and plugging with cement mortar 1:2 to match the existing floor-With Chlorpyriphos / lindane E.C. 20% with 1% concentration			
8.03	Providing and applying anti-termite treatment under interior existing skirting, wall, backside of wardrobe, door window frame using chemical emulsion @ 1 lit per hole 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1:2 to match the existing floor-With Chlorpyriphos / lindane E.C. 20% with 1% concentration	Sqm	764	
8.04	Providing and fixing in position ward robe / kitchen cabinets upto 600 mm deep as per drawing made up of one side teak board of 19 mm thick waterproof plywood laminated on both sides with 0.8 mm thick laminate for inside, outside with 1 mm laminate for exposed shutters, backside (in touch with wall, ceiling, floor) covered with 20 gauge aluminium sheet with all ends to be sealed with TW margin with horizontal shelves and vertical partition each ward robe and kitchen units along with shelves, shoe trays & drawers operative on telescopic channels for coats, sarees, clothes other household material and kitchen items including the cost of all accessories, hardware like hinges, catchers, handles, telescopic channels, locks, rods etc. all complete.	Sqft.	1900	
8.05	Modular kitchen fitting with SS basket, channels and all accessories	Each	5	
8.06	Providing and fixing bright finished chrome plated brass 100 mm mortice lock with 6 levers handles with necessary screws etc. complete- Godrej make or equivalent. Basic price Rs. 1100.00	each	20	
8.07	Extra for using coloured pedestal type wash basin of same colour instead of white vitreous china wash basin	each	15	
8.08	Fixing C.P. brass fitting in toilet with extension pc., CP pipe & nut - bolt, washer etc. complete as per satisfaction of EIC :- Make of sanitary ware "PARKO - Classic (CROME)"			
i	Single lever wall mixer (2 way)	each	15	
ii	15 mm diameter long body bib cock ( Two in one for Jet) Basic rate Rs. 300.00	each	15	
iii	P&F short body bib cock 15mm nominal bore. Basic rate Rs. 115.00	each	10	
iv	Basin inlet connection with 15" long pipe	each	80	
v	Providing and fixing overhead shower	each	15	
vi	Providing and fixing hand shower near toilet sheet	each	15	
vii	Single lever basin mixer, Basic rate Rs. 2600.00	each	15	
viii	Single lever sink mixer, Basic rate Rs. 3400.00	each	5	
ix	Glass / Fibre self with railing	each	15	

x	CP Towel rod	each	15	
xi	CP trap jali	each	40	
xii	Providing and fixing wall cap	each	180	
xiii	Fixing 5 mm thick mirror with 1" vaveled edges on all sides with necessary fixing arrangements	Sqft.	15	
xiv	P/F Sintex 200 lit loft tank with all fittings and fixtures	No	5	
xv	P/F CP bottle trap for wash basin, Bottle trap 31 mm single piece moulded with height 270 mm effective length of the tail pipe 260 mm from the centre of the waste coupling 77 mm width with 25 mm min. water seal weighing not less than 260 gm. Basic price Rs. 1200.00	No	15	
8.09	Filling of Grooves in Grit Plaster Outside. (a)Cleaning of Grooves properly. (b)Applying water proofing Chemicals over the grooved surface.(c) Applying of cement sand mortar with water proofing chemical as per manufacturer specification to fill the grooves.(d) Matching the colour of plaster with the existing colour of surface.	Per Flat	5	
<b>9.00</b>	<b>ELECTRICAL WORK</b>			
9.01	Supplying and fixing of following sizes of following sizes of PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm	RM	700	
9.02	Circuit/ sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required			
i.	2x2.5+1x2.5mm <sup>2</sup> copper conductor	RM	900	
ii.	2x4+1x4 mm <sup>2</sup> copper conductor	RM	805	
9.03	S/F modular boxes, base & cover plate: S/F following size/ modular, GI box along with modular base & cover plate for modular switches in recess etc. as required.			
i.	1 or 2 module (75 mm X 75 mm)	Each	170	
ii.	4 module (125mm X 75 mm)	Each	65	
iii.	8 module (125mm X 125 mm)	Each	90	
9.04	S/F following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required			
i.	i. 5/6 amp switch	Each	350	
ii.	ii. 2 way 5/6 amp switch	Each	60	



ii.	ii. 3 pin 5/6 amp socket outlet	Each	250	
iii.	iii. 15/16 amp switch	Each	65	
iv.	iv. 6 pin 15/16 amp socket outlet	Each	80	
v.	v. TV antenna socket outlet	Each	30	
vii.	vii. Tel. socket unit	Each	30	
9.05	S/F following way, single pole and neutral sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper busbar, earth bar, dinbar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. ( But without MCB/RCCB/Isolator) 4 way single door	Each	80	
9.06	S/F stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. req.	Each	40	
9.07	S/F modular blanking plate on the existing modular plate & switch box excluding modular plate req.	Each	150	
9.08	Supplying and drawing following pair, 0.5 Sqmm FR PVC insulated copper conductor, unarmoured tel. cable in the existing surface/ recessed steel/ PVC conduit as req. 2 pair	RM	700	
9.09	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as req.	RM	700	
<b>10.00</b>	<b>ELECTRICAL WORK</b>			
10.01	S/F modular boxes, base & cover plate: S/F following size/ modular, GI box along with modular base & cover plate for modular switches in recess etc. as required.			
i.	3 way	Each	65	
10.02	S/F of CFL Tube Holders	Each	50	
10.03	Supply, Installation , testing, commissioning of ceiling fans includes supply of necessary fixing material & hardware:- a) 48" size Crompton make or appd. Equal	Each	30	
10.04	Supply, Installation , testing, commissioning of water geysers includes supply of necessary fixing material & hardware:- a) 25 ltrs Crompton make or appd. Quality	each	13	
10.05	Supply, Installation , testing, commissioning of T-5 tubelight with complete fitting includes supply of necessary fixing material & hardware:- 28 watts philips or surya make	each	40	
10.06	Supply, Installation , testing, commissioning of 36 watt 4-pin cfl fittings with complete fitting includes supply of necessary fixing material -36watt with 4-pin CFL fitting of philips make	each	15	
10.07	Supply, Installation , testing, commissioning of exhaust fans includes supply of necessary fixing material &			

	hardware:- Crompton make			
	a)-12" exhaust fan in kitchen	each	5	
	b)-9" exhaust fan in bathrooms	each	15	
10.08	Supply & fixing of 18 watt CFL's-philips make	each	30	

Please avoid cutting and overwriting