

BHARAT HEAVY ELECTRICALS LTD. NEW DELHI
HUMAN RESOURCE DIVISION: CORPORATE OFFICE
(ADMINISTRATION DEPARTMENT)

TENDER NO.: AA: CORP: GAX: RENO: D1, 271-272 & TOILETS: 08:100
Dated: 03. 03. 2008

NAME OF WORK: **Renovation of flat no. D-1 at Noida Township as Directors residence, flat no. 271- 272 at Asiad as Transit Flat & toilets of administrative block of all five floor at BHEL House, Sirifort, New Delhi.**

OWNER : BHARAT HEAVY ELECTRICALS LIMITED

LOCATION : BHEL House, Siri Fort, New Delhi-110049

ISSUED TO

(a) Name of Agency with address : M/s.
with Telephone / Mobile no.

(b) Date of receipt of request
for issue of tender document :

(c) Date of issue of tender document :

(d) If downloaded from website, please
fill the name of agency with address
and Telephone / Mobile no. :

Signature of issuing official



Corporate Office, BHEL House, Sirifort, Asiad, New Delhi
Tele No. 011- 26492688 (Phone), 26493760 (Fax)

No. AA: CORP: GAX: RENO: D1, 271-272 & TOILETS: 08:100
Dt. 03.03.2008

Submission of tender on 12.03.08 by 11.30 AM
Due date for opening on 12.03.08 at 02.30 PM

SUB: Renovation of flat no. D-1 at Noida Township as Directors residence, flat no. 271- 272 at Asiad as Transit Flat & Toilets of Administrative block of all five floor at BHEL House, Sirifort, New Delhi.

Dear Sirs,

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

1.0 TERMS & CONDITIONS OF CONTRACT:

- 1.1 Enquiry No. & due date must be legible superscribed on the envelope.
- 1.2 Tenders shall be received and opened on the due date and time as mentioned above and opening will be in the presence of bidders 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 Prices shall remain valid for 60 days from the due date.
- 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 with out 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 party duly signed / accepted on each and every pages of the tender as per the instructions given for quoting the Technical and Price bid.
- 1.9 Each tenderer have to deposit EMD of Rs.1,00,000/- (One lacs 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. If Tenderers are quoting for more than on job, only one time EMD is required to be submitted along with one job and the same shall be mentioned in the covering letter and on the envelop of Technical Bid. All the technically qualified Tenderers will be deemed registered with BHEL, New Delhi for future jobs of similar nature for sending the Limited tender enquiry as and when required.
- 1.10 Each tender shall be accompanied by separate envelop carrying EMD as mentioned above failing which the tender will be rejected.
- 1.11 Upon acceptance of tender, the Contractor within the time specified in the Letter of Intent / Work Order must deposit 50% of the Security Deposit mentioned below before start of work. The balance amount will be deducted from the monthly running bill 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. up to 6 month from the date of completion of the work) without carrying any interest. The total amount of Security Deposit shall be calculated as Rs. 1 lakhs + 7.5% of the amount exceeding Rs. 10 lakhs.

If the value of the 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 Deposit 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.

- 1.12 EMD of successful bidder will be converted in to security deposit and balance amount of security deposit will be recovered in the above manner as per clause No. 1.11.
- 1.13 Prices quoted by the parties will be firm and no escalation on account of labour or material or taxes or any reason what so ever will be paid to contractor for execution of the above job.

- 1.14 Prices quoted by the party should be inclusive of all taxes etc. as prevailing on Works Contract but excluding of service tax if applicable, which will be paid on documentary evidence.
- 1.15 Entire work has to be completed within **two months** for Renovation of flat no. D-1 at Noida Township as Directors residence and within **four months** for Renovation of flat no. 271- 272 at Asiad as Transit Flat & Renovation of toilets of administrative block of all five floor at BHEL House, Sirifort, New Delhi from the date of award of work failing which liquidated damages will be imposed @ 1/2 % of the Gross Value of per week of delay subject to maximum 10% of the Gross Value.
- 1.16 Parties 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 and clarify all doubt regarding above job before submitting the offer. Engineer-in-charge's decision will be full and final in the event of any doubt.
- 1.17 Tender should be submitted along with covering letter of the party with duly signed on each & every pages of the tender document, technical specification and price bid.
- 1.18 The successful tenderer must comply all statutory labour law regulations applicable on this contract i.e. 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 Contractor.
- 1.19 The tenderer will be responsible for the quality of the work and it will be guaranteed for a period of six months from the date of completion of job.
- 1.20 Period of maintenance shall mean the period of six months 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.
- 1.21 The Tenderers are required to quote for the complete scope of work with rates for all the items & no column should be left blank. 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.
- 1.22 Work order will be placed on lowest bidder for the scope of work for which he has quoted lowest i.e. Renovation of flat no. D-1 at Noida Township as Directors residence **OR** Renovation of flat no. 271- 272 at Asiad as Transit

Flat **OR** Renovation of Toilets of Administrative block of all five floor at BHEL House, Sirifort, New Delhi for which the party has qualified in the Techno-commercial Bid and subsequently have emerged as lowest bidder in the evaluation of price bid.

- 1.23 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.
- 1.24 All documents submitted by the Tenderer in his offer shall be accompanied with a covering letter giving index interlinking all the documents.
- 1.25 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 bidder shall have any claim arising out of such action by BHEL.

2.0 QUALIFYING CRITERIA:

- 2.1 Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.
- 2.2 If parties intend to quote for more than one job then their eligibility would be worked out based on the combined value of those jobs. The parties must accordingly indicate their willingness to undertake one or more than one job in their covering letter of the techno-commercial offer. Parties are required to fill the format placed at **Annexure-A**.
- 2.3 Experience of having successfully completed similar works (i.e. Construction , Modification / Renovation / Repair of Civil works) during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following: -
 - a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost.
OR
 - b. Two similar completed works costing not less than the amount equal to 50% of the estimated cost.
OR
 - c. One similar completed work costing not less than the amount equal to 80% of the estimated cost.

2.3 The qualifying criteria parties will be seen for which bid have been submitted and if bid has been submitted for more than one job then the qualifying criteria will be for the combined jobs.

3.0 DOCUMENTS REQUIRED:

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

- a) Proof three previous years IT return in support of Average Annual financial turnover as per clause no. 2.1 above.
- b) Proof of work orders or completion certificates in support of the qualifying criteria mentioned at clause no. 2.0 above with covering letter / indexing of the same.
- c) Un-priced format duly signed by the bidder shall be submitted along with technical bid by mentioning 'Q' in the column of rates against each item in the BOQ.
- d) A copy of tender enquiry duly signed on each and every page shall be submitted along with technical bid.
- e) Each Tenderer has to enclose the proof of TIN No. and PAN No. along with the tender.
- f) Tenderer has to submit the **No Deviation Certificate** duly signed in the format mentioned in the **Annexure – B.**

4.0 PROCEDURE FOR SUBMISSION OF SEALED TENDERS:

4.1 The offer 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. Envelop 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. The 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 will be rejected.

- 4.2 Part - 1 of the bid will be opened first and scrutinized. Successful bidders in Technical Bid Part - 1 will only be considered for opening of Price Schedule i.e. Part - 2. Date of opening of Price Bid will be intimated separately to the Tenderers who qualify in the Techno-Commercial bid.
- 4.3 Offers should be strictly 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 the offer. If no deviations are given in the offer, it will be assumed that the Tenderer accepts all terms and conditions of the tender.
- 4.5 Offers with deviations from terms and conditions of this tender 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 following address up to one week before the tender due date.

5.0 SCOPE OF WORK:

Sl. No.	Description of work	Unit	Qty	Rate (Rs.)	Amount (Rs.)
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5.1 As per Bill of Quantity enclosed at

(i) **Annexure-I** : Renovation of flat no. D-1 at BHEL Township, Sector-17, Noida

(ii) **Annexure-II** : Renovation of flat no. 271- 272 at Asiad at Asiad, New Delhi.

(iii) **Annexure-III** : Renovation of Toilets of Administrative Block of all five floors at BHEL House, Sirifort, New Delhi.

Please submit your lowest quotation / offers for the above requirement subject to our terms and conditions given in the above tender enquiry so as to reach us on before the due date mentioned in the and the same shall be opened on scheduled date and time.

**To,
R. K. Khattar,
Sr. Executive (HR-GAX)
Corporate Office, BHEL House,
Siri Fort, New Delhi – 110049.**

Phone no. -26001010, Extn.-2915, Fax -26493760, E-mail: rkkhattar@bhel.co.in

In case you are not making an offer against this enquiry, we request you to post a regret letter.

Thanking you,

Yours faithfully,
For & on behalf of BHEL

(R. K. Khattar)
Sr. Executive (HR-GAX)

Annexure-A

We intend to undertake the following jobs:

Appropriate Boxes	Job	Description of job	Value of Job (Rs. in Lacs)
	A	Renovation of flat no. D-1, at BHEL Township, Sector-17, Noida	12.66
	B	Renovation of flat no. 271- 272 at Asiad at Asiad, New Delhi.	23.95
	C	Renovation of Toilets of Administrative Block of all five floors at BHEL House, Sirifort, New Delhi.	40.80

A B C A+B
 B+C A+C A+B+C

(Tick in the appropriate box / boxes √ and strike of the one which is not applicable as ×)

NOTE:

Eligibility criteria for jobs:

For Job	3 similar jobs of value (in Lacs)	2 similar jobs of value (in Lacs)	1 similar jobs of value (in Lacs)
A	5.00	7.00	10.00
B	10.00	12.00	19.00
C	16.00	21.00	33.00
A + B	15.00	18.00	29.00
B + C	26.00	32.00	52.00
A +C	21.00	27.00	43.00
A+B+C	31.00	39.00	62.00

Signature and Seal of the Bidder

NO DEVIATION CERTIFICATE

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

Signature and Seal of the Bidder

(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.

Sl. No.	Description of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	CIVIL WORKS				
1.01	Dismantling tile work in floors and walls laid in cement mortar including stacking material within 50 meters lead. - Thickness of tiles 10 mm to 25 mm.	Sqm	325.54	10.90	3548.39
1.02	Demolishing RCC manually/ by mechanical means work including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineering -in-Charge.	Cum	2.77	537.55	1489.01
1.03	Dismantling doors, windows and clerstory windows (steel or wood) shutter including chowkhats, architrave holdfasts etc. complete and stacking withing 50 meters lead of area 3sqmts. and below.	Each	9	54.60	491.40
1.04	Fixing chowkhat in existing opening in brick/RCC wall with dash fastener of appropriate size/chemical fastener (3 nos on each vertical member of door chowkhat and 2 nos. on each vertical member of window 1.20 metre height as per CPWD specification including cost of dash fasteners / chemical fasteners.	Each	9	81.05	729.45
1.05	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	Sqm	203.87	15.45	3149.79
1.06	Demolishing mud phaska in terracing and disposal of material within 50 meters lead.	Cum	20.39	137.90	2811.78
1.07	10cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25mm thick mud mortar mixed with bhusa at 35 kg per cum of earth and gobri ieaping with mix 1:1 (1clay: 1 cow dung) and covered with flat tile bricks of class designation 100 grouted with cement mortar 1:3(1cement: 3 fine sand)mixed with 2% of integral water proofing compound by weight of cement and finished neat: - With FPS brick tiles.	Sqm	20.39	254.70	5193.33
1.08	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering. All work upto plinth level. - 1:4:8(1cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size.)	Cum	5.01	2296.15	11503.71
1.09	Reinforced cement concrete work in beams, suspende floors, roofs having slope upto 15 degree, landing, balconies, shelves, chajja, lintels, bands, plain window sill, staircases and spiral staircases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarese sand : 4 graded stone aggregate 20 mm nominal size.)	Cum	11.50	3673.85	42249.28
1.10	Reinforcement of R.C.C. work including straightening, cutting, bending,placing in positionand binding all complete. - Thermo-Mechanically Treated bars(10 & 8mm Ø).	Kg	600.00	42.70	25620.00
1.11	Centering and shuttering including strutting,propping etc. and removal for form of.Suspended floors, roofs, landing, balconies, and access pltfom.	Sqm	48.12	187.35	9015.28
1.12	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meteres and under including cutting the patch in proper shape raking out joints and and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 mtrs. lead. With cement mortar 1:4 (1 cement : 4 coarse sand).	Sqm	136.46	120.70	16470.72
1.13	12 mm cement plaster of mix. - 1 : 6 (1 cement : 6 fine sand)	Sqm	26.78	67.65	1811.67
1.14	6 mm cement plaster of mix. - 1 :3 (1 cement : 3 fine sand)	Sqm	16.53	62.15	1027.34
1.15	Brick work with machine moulded perforated bricks of class designation 125 conforming to IS : 2222 - 1991 in superstructure above plinth level upto floor five level in cement mortar 1: 6 (1 cement : 6 coarse sand) wutg F,P.S. bricks.	Cum	13.1	3195.10	41855.81
1.16	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level. Cement mortar 1:4(1cement:4coarse sand).	Sqm	13.74	302.80	4160.47
1.17	Supplying & filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	Cum	9.92	301.50	2990.88

(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.

Sl. No.	Description of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.18	Washed stone grit plaster on exterior walls of height upto 10 M above level in two layers, under layer 12 mm cement plaster 1: 4 (1 cement : 4 coarse sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square meter, top layer 15 mm cement plaster 1:1/2:2 (1 cement : 1/2 coarse sand : 2 stone chipping 10 mm nominal size) in panels with groove all around as per approved pattern including scrubbing and washing, the top layer with brushes and weater to expose the stone chippings complete as per specification and direction of Engineer - in-Charge(Payment for providing grooves shall be made separately).	Sqm	66.04	262.20	17315.69
1.19	Providing and applying plaster of paris putty of 2mm thickness over plaster surface to prepare the surface even and smooth complete.	Sqm	780.33	47.20	36831.58
1.20	Providing wood work in frames of door, windows, clerestory windows and other frames, wrought framed and fixed in position: - Sal wood	Cum	0.29	30511.90	8848.45
1.21	Providing and fixing glazed shutters for doors, windows, clerestory windows using 4 mm thick float glass panes including black enameled ISI marked MS butt hinges with necessary screws and fittings 35 mm thick.	Sqm	10.20	1718.30	17526.66
1.22	Melamine Polishing on woodwork (one or more coat).	Sqm	212.69	45.15	9602.95
1.23	Applying one coat of cement primer of approved brand manufacturer on wall surface cement primer.	Sqm	780.33	17.20	13421.68
1.24	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: -Two or more coats on new work.	Sqm	780.33	40.05	31252.22
1.25	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 polishing complete with. - Agaria White.	Sqm	234.65	1673.55	392698.51
1.26	Providing and fixing 1st quality ceramic glazed / porcelain wall tiles conforming to IS:15622 of (thickness to be specified by manufacture) of approved make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer in charge in skirting, wall,risers of steps and dados and toilet walls over 12 mm thick bed of cement mortar 1:3 (1 cement:3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	127.18	556.60	70788.39
1.27	25 mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete with polishing: - Second class teak wood.	Sqm	17.68	1752.50	30984.20
1.28	Structural steel work riveted, bolted or welded in builtup sections, trusses and frame work including cutting, hoisting, fixing in position and applying priming coat of approved steel primer all complete.	Kg	1768.07	46.35	81950.04
1.29	Providing and fixing in position collapsible steel shutters with verticle channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts,nuts, locking arrangement, stoppers, handles,. including applying a priming coat of approved steel primer.	Sqm	3.19	2592.70	8270.71
1.3	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes,manually / by mechanical means including stacking of pipes within 50 meters lead as per direction of Engineer-in-Charge 15 mm to 40 mm nominal bore.	Mtr.	75.00	24.90	1867.50
1.31	Providing and fixing G.I. pipes complete with G.I. fittings and clamps including cutting and making good the walls etc. (Internal work).-20 mm dia nominal bore.	Mtr.	75.00	133.85	10038.75
1.32	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including black enamelled M.S. butt hinges with necessary screws excluding, panelling, which will be paid for seperately - 35 mm thick - second class teak wood.	Sqm	5.10	1373.65	7005.62

(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.

Sl. No.	Description of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.33	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	5.10	1718.30	8763.33
1.34	Providing and fixing bright finished brass tower bolts with necessary screws etc. complete - 250 x 10 mm	each	22	155.15	3413.30
1.35	Providing and fixing bright finished brass handles with screws etc. complete - 125 mm	each	12	103.65	1243.80
1.36	Kota stone slab flooring over 20mm (average) thick base laid over and joined with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing to granite finish complete with base of cement mortar of 1:4 (1cement : 4 coarse sand) 25 mm thick.	Sqm	70.65	694.40	49059.36
1.37	Providing & fixing of white vitreous china water closet (European floor/ wall type) with seat and lid, 10 litre low level flushing cistern with all fittings & C.I. / M.S. brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling jopf approved municipal design complete including painting of fittings and bracketys, cutting and making good the walls and jkfloors wherever required: W.C. Pan with ISI marked white solid kplastic seat and lid.	Each	4	3282.95	13131.80
1.38	Extra for using coloured pedestal type W.C. pan (European floor/ wall type) with low level cistern of same colour instead of white vitreous china W.C. pan and cistern.	Each	4	876.95	3507.80
1.39	Extra for providing coloured other than black solid P.V.C. plastic seat and cover in European floor/ wall type W.C. pan instead of white plastic seat and cover.	Each	4	121.95	487.80
1.4	Providing & fixing of wash basin with C.I. brackets, 15 mm CP brass pillar taps, 32 mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required: (a) White Vitreous China Wash basin size 630 x 450 mm with a pair of 15 mm C.P. Brass pillar taps.	Each	5	1332.90	6664.50
1.41	Extra for using coloured wash basin instead of white.	Each	5	398.40	1992.00
1.42	Providing & fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement:4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc. complete at all levels. - Granite of any colour and shade area of slab over 0.50 sqmts.	Sqm	8.08	2543.65	20552.69
1.43	Extra for providing edge moulding to 18 mm thick marble stone counters, Vanities etc. over item no.8.2 including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	Mtr.	25.75	97.60	2513.20
1.44	Providing and fixing 600 X 450 bevelled edge mirror of superior glass (of approved quality) complete with with 6 mm thick hard board ground fixed to wooden cleats with cp brass screws and washers complete.	Each	5	493.65	2468.25
1.45	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make (Prayag or equivalent). (a) 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88mm, weighing not less than 190 gms.	Each	7	329.50	2306.50
1.46	Providing & fixing toilet paper holder of C.P. Brass	Each	5	147.10	735.50
2.01	Providing POP Cornice in the rooms and balconies and other places where required and up to satisfaction of Engineer-in-Charge.	Rft.	233.60	15.00	3504.00
2.02	Providing POP Molding in the rooms and balconies and other places where required and up to satisfaction of Engineer-in-Charge.	Rft.	233.60	10.00	2336.00
2.03	Providing POP Gola around fan point in rooms and balconies as approved by Engineer-in-Charge.	Nos	17	93.75	1593.75
2.04	Providing and fixing teak wood Wall panelling (cladding) with laminating.	sqft	623.76	100.00	62376.00
2.05	Providing & fixing of 4 mm Translucent sheet work.	sqft	872.55	50.00	43627.50
2.06	Providing & fixing of Curtain rod.	Rft.	201.50	70.00	14105.00
2.07	Providing & fixing of soap tray	Each	7	450.00	3150.00

(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.					
Sl. No.	Description of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
3.01	Wiring for the light points with 2x1.5 + 1 sq.mm PVC. Insulated copper conductor 1100 Volts grade stranded Flexible "FR" wires of approved make concealed modular switches 7 sockets of North West or Crabtree Brand, provided in good quality of GI Boxes and proper earthing of GI Boxes, 2x1.5 sq.mm for looping and 2x2.5 sq.mm for circuit from distribution Box to switch Box.	Each	25	600.00	15000.00
3.02	Wiring for ceiling fan points with 1.5 sq.mm PVC. Insulated copper conductor 1100 Volts grade stranded Flexible "FR" wires in concealed PVC conduit including 6Amps. Switch and 300 Watts Electronic step type fan regulator of North West or Crabtree Brand with GI Box and earthing of the fans and Boxes.	Each	10	675.00	6750.00
3.03	Wiring for 250 volts single phase and neutral 6 Amps. Switch socket out let with PVC insulated copper conductor 1100 Volts grade stranded flexible "FR" wires in concealed PVC conduit including fixing of 6 Amps. 3 Pin socket out let with switches of North - West or Crabtree Brand and provided in good quality of GI Box with grid plates and earthing of the third pin of socket.	Each	29	700.00	20300.00
3.04	Wiring for 250 volts single phase and neutral 6 Amps. Switch socket out let with PVC insulated copper conductor 1100 Volts grade stranded flexible "FR" wires in concealed PVC conduit including fixing of 16 Amps. 3 Pin socket out let with switches of North - West or Crabtree Brand and provided in good quality of GI Box with grid plates and earthing of the third pin of socket.	Each	25	940.00	23500.00
3.05	Wiring for 250 Volt Single Phase and neutral three pin industrial socket with 2 x 4 sq.mm PVC. Insulated copper conductor 1100 Volts . Grade stranded flexible "FR" wire in concealed PVC Conduit including providing and fixing of 32 Amps. socket and 32 Amps. MCB in Metelic encloser, earthing the third pin with PVC insulated copper stranded "FR" conductor.	Each	6	2200.00	13200.00
3.06	Wiring for exhaust fan points with 2 x 1.5 sq.mm PVC. Insulated stranded copper conductor 1100 Volt grade wires in PVC Concealed conduit pipe with earthing the socket with 1 sq. mm copper wire complete with testing & Commissioning.	Each	4	675.00	2700.00
3.07	Providing and laying Telephone wiring single pair from telephone junction box to each room in PVC. Concealed conduit pipe with fixing of GI box with single telephone cord grid plate mounted outlet unit (RJ-11) with molded cover plate.	Each	7	600.00	4200.00
3.08	Providing and laying cat - 5 cable in PVC. Conduit pipe concealed with fixing of GI Box fixing of Lan Jack on grid type plate.	Each	6	700.00	4200.00
3.09	Providing and laying TV Co-axial cable RJ - 59 or equivalent in PVC. Concealed conduit pipe fixing of GI Box with Modular cover place and TV Jack.	Each	6	600.00	3600.00
3.10	Supply, Erection, Testing and Commissioning of sheet steel clad wall mounted dust & vermin proof distribution board with following incomer and out going MCB's. Incomer - 100 Amps. TPN, MCB - 1 no. Out Going - 10 to 16 Amps. Single Pole MCB - 8 nos. 25 Amp. Single Pole MCB - 10 nos. 32 Amps. Single Pole MCB - 6 nos. Complete with supplying & fixing of Havells or equivalent Renowed Brand MCB's and their connection on each page , load distribution.	Each	1	10000.00	10000.00
3.11	Providing and making call bell point with Buzzer in PVC. Concealed pipe. Wiring with 2 x 1.5 sq.mm copper conductor PVC. Insulated fixing of GI Box and grid type bell push.	Each	2	600.00	1200.00
3.12	Removing and re-fixing of fan hook recess complete with cutting in ceiling fixing of fan hook recess.	Each	9	150.00	1350.00
	GRAND TOTAL OF Sl. 1 TO 11 (Inclusive of all taxes as applicable on works contract)				1266053.34
	Percentage above / Percentage below on the Grand Total Amount =				

					Annexure-I
(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.					
Sl. No.	Description of items	Unit	Qty	Vendor Compliance	Vendor Remarks
1	CIVIL WORKS				
1.01	Dismantling tile work in floors and walls laid in cement mortar including stacking material within 50 meters lead. - Thickness of tiles 10 mm to 25 mm.	Sqm	325.54	Yes	
1.02	Demolishing RCC manually/ by mechanical means work including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineering -in-Charge.	Cum	2.77	Yes	
1.03	Dismantling doors, windows and clerstory windows (steel or wood) shutter including chowkhats, architrave holdfasts etc. complete and stacking withing 50 meters lead of area 3sqmts. and below.	Each	9	Yes	
1.04	Fixing chowkhat in existing opening in brick/RCC wall with dash fastener of appropriate size/chemical fastener (3 nos on each vertical member of door chowkhat and 2 nos. on each vertical member of window 1.20 metre height as per CPWD specification including cost of dash fasteners / chemical fasteners.	Each	9	Yes	
1.05	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	Sqm	203.87	Yes	
1.06	Demolishing mud phaska in terracing and disposal of material within 50 meters lead.	Cum	20.39	Yes	
1.07	10cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25mm thick mud mortar mixed with bhusa at 35 kg per cum of earth and gobi ieaping with mix 1:1 (1clay: 1 cow dung) and covered with flat tile bricks of class designation 100 grouted with cement mortar 1:3(1cement: 3 fine sand)mixed with 2% of integral water proofing compound by weight of cement and finished neat: - With FPS brick tiles.	Sqm	20.39	Yes	
1.08	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering. All work upto plinth level. - 1:4:8(1cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size.)	Cum	5.01	Yes	
1.09	Reinforced cement concrete work in beams, suspende floors, roofs having slope upto 15 degree, landing, balconies, shelves, chajja, lintels, bands, plain window sill, staircases and spiral staircases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarese sand : 4 graded stone aggregate 20 mm nominal size.)	Cum	11.50	Yes	
1.10	Reinforcement of R.C.C. work including straightening, cutting, bending,placing in positionand binding all complete. - Thermo-Mechanically Treated bars(10 & 8mm Ø).	Kg	600.00	Yes	
1.11	Centering and shuttering including strutting,propping etc. and removal for form of.Suspended floors, roofs, landing, balconies, and access pltfom.	Sqm	48.12	Yes	
1.12	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meteres and under including cutting the patch in proper shape raking out joints and and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 mtrs. lead. With cement mortar 1:4 (1 cement : 4 coarse sand).	Sqm	136.46	Yes	
1.13	12 mm cement plaster of mix. - 1 : 6 (1 cement : 6 fine sand)	Sqm	26.78	Yes	
1.14	6 mm cement plaster of mix. - 1 :3 (1 cement : 3 fine sand)	Sqm	16.53	Yes	
1.15	Brick work with machine moulded perforated bricks of class designation 125 conforming to IS : 2222 - 1991 in superstructure above plinth level upto floor five level in cement mortar 1: 6 (1 cement : 6 coarse sand) wutg F,P.S. bricks.	Cum	13.1	Yes	
1.16	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level. Cement mortar 1:4(1cement:4coarse sand).	Sqm	13.74	Yes	
1.17	Supplying & filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	Cum	9.92	Yes	
1.18	Washed stone grit plaster on exterior walls of height upto 10 M above level in two layers, under layer 12 mm cement plaster 1: 4 (1 cement : 4 coarse sand) furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square meter, top layar 15 mm cement kplaster 1:1/2:2 (1 cement : 1/2 coarse sand : 2 stone chipping 10 mm nominal size) in panels with groovece all around as per approved pattern including scrubbing and washing, the top layar with brushes abnd weater to expose the stone chippbngs complete as per specification and direction of Engineer - in-Charge(Payment for providing grooves shall be made separately).	Sqm	66.04	Yes	

					Annexure-I
(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.					
Sl. No.	Description of items	Unit	Qty	Vendor Compliance	Vendor Remarks
1.19	Providing and applying plaster of paris putty of 2mm thickness over plaster surface to prepare the surface even and smooth complete.	Sqm	780.33	Yes	
1.20	Providing wood work in frames of door, windows, clerestory windows and other frames, wrought framed and fixed in position: - Sal wood	Cum	0.29	Yes	
1.21	Providing and fixing glazed shutters for doors, windows, clerestory windows using 4 mm thick float glass panes including black enameled ISI marked MS butt hinges with necessary screws and fittings 35 mm thick.	Sqm	10.20	Yes	
1.22	Melamine Polishing on woodwork (one or more coat).	Sqm	212.69	Yes	
1.23	Applying one coat of cement primer of approved brand manufacturer on wall surface cement primer.	Sqm	780.33	Yes	
1.24	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: -Two or more coats on new work.	Sqm	780.33	Yes	
1.25	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 polishing complete with. - Agaria White.	Sqm	234.65	Yes	
1.26	Providing and fixing 1st quality ceramic glazed / porcelain wall tiles conforming to IS:15622 of (thickness to be specified by manufacture) of approved make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer in charge in skirting, wall,risers of steps and dados and toilet walls over 12 mm thick bed of cement mortar 1:3 (1 cement:3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	127.18	Yes	
1.27	25 mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete with polishing: - Second class teak wood.	Sqm	17.68	Yes	
1.28	Structural steel work riveted, bolted or welded in builtup sections, trusses and frame work including cutting, hoisting, fixing in position and applying priming coat of approved steel primer all complete.	Kg	1768.07	Yes	
1.29	Providing and fixing in position collapsible steel shutters with verticle channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts,nuts, locking arrangement, stoppers, handles., including applying a priming coat of approved steel primer.	Sqm	3.19	Yes	
1.3	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes,manually / by mechanical means including stacking of pipes within 50 meters lead as per direction of Engineer-in-Charge 15 mm to 40 mm nominal bore.	Mtr.	75.00	Yes	
1.31	Providing and fixing G.I. pipes complete with G.I. fittings and clamps including cutting and making good the walls etc. (Internal work).-20 mm dia nominal bore.	Mtr.	75.00	Yes	
1.32	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including black enamelled M.S. butt hinges with necessary screws excluding, panelling, which will be paid for seperately - 35 mm thick - second class teak wood.	Sqm	5.10	Yes	
1.33	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	5.10	Yes	
1.34	Providing and fixing bright finished brass tower bolts with necessary screws etc. complete 250 x 10 mm	each	22	Yes	
1.35	Providing and fixing bright finished brass handles with screws etc. complete - 125 mm	each	12	Yes	
1.36	Kota stone slab flooring over 20mm (average) thick base laid over and joined with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing to granite finish complete with base of cement mortar of 1:4 (1cement : 4 coarse sand) 25 mm thick.	Sqm	70.65	Yes	
1.37	Providing & fixing of white vitreous china water closet (European floor/ wall type) with seat and lid,10 litre low level flushing cistern with all fittings & C.I. / M.S. brakets,40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling jopf approved municipal design complete including jpanting of fittings and bracketys, cutting and making good tthe walls and jkfloors wherever required: W.C. Pan with ISI marked white solid kplastic seat and lid.	Each	4	Yes	

					Annexure-I
(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.					
Sl. No.	Description of items	Unit	Qty	Vendor Compliance	Vendor Remarks
1.38	Extra for using coloured pedestal type W.C. pan (European floor/ wall type)with low level cistern of same colour instead of white vitreous china W.C. pan and cistern.	Each	4	Yes	
1.39	Extra for providing coloured other than black solid P.V.C. plastic seat and cover in European floor/ wall type W.C. pan instead of white plastic seat and cover.	Each	4	Yes	
1.4	Providing & fixing of wash basin with C.I. brackets, 15 mm CP brass pillar taps, 32 mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:(a) White Vitreous China Wash basin size 630 x 450 mm with a pair of 15 mm C.P. Brass pillar taps.	Each	5	Yes	
1.41	Extra for using coloured wash basin instead of white.	Each	5	Yes	
1.42	Providing & fixing 18mm thick mirror polished,machine cut for kitchen platforms, vanity counters window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement:4 coarse sand) with joints treated with white cement,mixed with matching pigment,epoxy touch ups, including rubbing, curing etc. complete at all levels. - Granite of any colour and shade area of slab over 0.50 sqmts.	Sqm	8.08	Yes	
1.43	Extra for providing edge moulding to 18 mm thick marble stone counters,Vanities etc. over item no.8.2 including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	Mtr.	25.75	Yes	
1.44	Providing and fixing 600 X 450 bevelled edge mirror of superior glass(of approved quality) complete with with 6 mm thick hard board ground fixedto wooden cleats with cp brass screws and washers complete.	Each	5	Yes	
1.45	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make (Prayag or equivalent). (a) 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88mm , weighing not less than 190 gms.	Each	7	Yes	
1.46	Providing & fixing toilet paper holder of C.P.Brass	Each	5	Yes/No	
2.01	Providing POP Cornice in the rooms and balconies and other places where required and upt to satisfaction of Engineer-in-Charge.	Rft.	233.60	Yes	
2.02	Providing POP Molding in the rooms and balconies and other places where required and upt to satisfaction of Engineer-in-Charge.	Rft.	233.60	Yes	
2.03	Providing POP Gola around fan point in rooms and balconies as approved by Engineer-in-Charge.	Nos	17	Yes	
2.04	Providing and fixing teak wood Wall panelling (cladding) with laminating.	sqft	623.76	Yes	
2.05	Providing & fixing of 4 mm Translucent sheet work.	sqft	872.55	Yes	
2.06	Providing & fixing of Curtain rod.	Rft.	201.50	Yes	
2.07	Providing & fixing of soap tray	Each	7	Yes	
				Yes	
3.01	Wiring for the light points with 2x1.5 + 1 sq.mm PVC. Insulated copper conductor 1100 Volts grade stranded Flexible "FR" wires of approved make concealed modular switches 7 sockets of North West or Crabtree Brand, provided in good quality of GI Boxes and proper earthing of GI Boxes, 2x1.5 sq.mm for looping and 2x2.5 sq.mm for circuit from distribution Box to switch Box.	Each	25	Yes	
3.02	Wiring for ceiling fant points with 1.5 sq.mm PVC. Insulated copper conductor 1100 Volts grade stranded Flexible "FR" wires in concealed PVC conduit including 6Amps. Switchand 300 Watts Electronic step type fan regulator of North West or Crabtree Brand with GI Box and earthing of the fans and Boxes.	Each	10	Yes	
3.03	Wiring for 250 volts single phase and neutral 6 Amps. Switch socket out let with PVC insulated copper conductor 1100 Volts grade stranded flexible "FR" wires in concealed PVC conduit including fixing of 6 Amps. 3 Pin socket out let with switches of North - West or Crabtree Brand and provided in good quality of GI Box with grid plates and earthing of the third pin of socket.	Each	29	Yes	
3.04	Wiring for 250 volts single phase and neutral 6 Amps. Switch socket out let with PVC insulated copper conductor 1100 Volts grade stranded flexible "FR" wires in concealed PVC conduit including fixing of 16 Amps. 3 Pin socket out let with switches of North - West or Crabtree Brand and provided in good quality of GI Box with grid plates and earthing of the third pin of socket.	Each	25	Yes	
3.05	Wiring for 250 Volt Single Phase and neutral three pin industrial socket with 2 x 4 sq.mm PVC. Insulated copper conductor 1100 Volts . Grade stranded flexible "FR" wire in concealed PVC Conduit including providing and fixing of 32 Amps. socket and 32 Amps. MCB in Metelic encloser, earthing the third pin with PVC insulated copper stranded "FR" conductor.	Each	6	Yes	

					Annexure-I
(A) BILL OF QUANTITY FOR RENOVATION WORK OF DIRECTOR'S BUNGLOW IN BHEL TOWNSHIP, SECTOR - 17, NOIDA.					
Sl. No.	Description of items	Unit	Qty	Vendor Compliance	Vendor Remarks
3.06	Wiring for exhaust fan points with 2 x 1.5 sq.mm PVC. Insulated stranded copper conductor 1100 Volt grade wires in PVC Concealed conduit pipe with earthing the socket with 1 sq. mm copper wire complete with testing & Commissioning.	Each	4	Yes	
3.07	Providing and laying Telephone wiring single pair from telephone junction box to each room in PVC. Concealed conduit pipe with fixing of GI box with single telephone cord grid plate mounted outlet unit (RJ-11) with molded cover plate.	Each	7	Yes	
3.08	Providing and laying cat - 5 cable in PVC. Conduit pipe concealed with fixing of GI Box fixing of Lan Jack on grid type plate.	Each	6	Yes	
3.09	Providing and laying TV Co-axial cable RJ - 59 or equivalent in PVC. Concealed conduit pipe fixing of GI Box with Modular cover place and TV Jack.	Each	6	Yes	
3.10	Supply, Erection, Testing and Commissioning of sheet steel clad wall mounted dust & vermin proof distribution board with following incomer and out going MCB's.	Each	1	Yes	
	Incomer - 100 Amps. TPN, MCB - 1 no.			Yes	
	Out Going - 10 to 16 Amps. Single Pole MCB - 8 nos. 25 Amp. Single Pole MCB - 10 nos. 32 Amps. Single Pole MCB - 6 nos.			Yes	
	Complete with supplying & fixing of Havells or equivalent Renowed Brand MCB's and their connection on each page , load distribution.			Yes	
3.11	Providing and making call bell point with Buzzer in PVC. Concealed pipe. Wiring with 2 x 1.5 sq.mm copper conductor PVC. Insulated fixing of GI Box and grid type bell push.	Each	2	Yes	
3.12	Removing and re-fixing of fan hook recess complete with cutting in ceiling fixing of fan hook recess.	Each	9	Yes	
GRAND TOTAL OF Sl. 1 TO 11 (Inclusive of all taxes as applicable on works contract)					
Percentage above / Percentage below on the Grand Total Amount =					

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	DISMANTLING AND DEMOLISHING				
1.01	Dismantling of old tile work in floors and wall, doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts, G.I. Pipes / C.I. Pipes (internal / external), flushing cistern / urinals, existing bath room fittings, China ware fitting of any type like WC, Wash Basin etc. alongwith demolishing R.C.C. / CC work, cutting of reinforcement, brick work etc. and prepering the surface for plaster including diposal & stacking of material at ground floor within 50 metres lead including lifting and taking out the unusable mulba out side the BHEL premises at the risk and cost of contractor and upto the satisfaction of Engineer-in-Charge. (Complete job required for flat No. 271 & 272)	Job	1	18500.00	18500.00
2	PLAIN CONCRETE WORK				
2.01	Providing and 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	25	2791.05	69776.25
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	50	27.45	1372.50
2.03	Extra for concrete work in superstructure above plinth level for each four floors or part thereof.	cum	15	235.65	3534.75
2.04	Cinder Filling	cum	4	1800.00	7200.00
3	REINFORCEMENT CEMENT CONCRETE WORK				
3.01	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	1	3673.85	1836.93
3.02	Centring and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform.	sqm	5	187.35	936.75
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete - Cold twisted bars	kg	100	42.70	4270.00
4	BRICK WORK				
4.01	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in : Cement mortar 1:4 (1cement : 4 coarse sand)	cum	5	2529.05	12645.25
4.02	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in : Cement mortar 1:3 (1cement : 3 coarse sand)	sqm	25	322.00	8050.00
5	PLASTERING & FINISHING WORK				
5.01	Providing cement plaster in CM 1:4 (1 cement : 4 coarse sand) on walls, columns etc. at all levels - 15 mm thick	sqm	150	96.35	14452.50
5.02	15 mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement : 3 fine sand)	sqm	50	122.50	6125.00
5.03	Applying one coat of cement primer of approved brand and manufacture on wall surface - Cement Primer	sqm	1100	17.20	18920.00
5.04	Painting with plastic emulsion paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	1100	40.05	44055.00
5.05	Applying primer - With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	100	16.55	1655.00

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5.06	Painting with enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	100	33.25	3325.00
5.07	Fresh spirit polishing - Two or more coats on new works including a coat of wood filler.	sqm	100	75.60	7560.00
5.08	Malamine polishing coat on wood work (one or more coat) to give malamine finish on over and above item.	sqm	100	45.15	4515.00
5.09	Providing and applying 6mm thk. P.O.P. punning (calcium sulphate semi hydrate variety) over wall & ceiling surface with plastic emulsion paint, including rounding, chamfering of corners, to give a smooth surface in true line and level.	sqm	1100	80.00	88000.00
5.10	Providing gypsum cornice of size 100 x 100 mm	Rm	450	150.00	67500.00
5.11	Providing gypsum moulding of size 50 x 50 mm	Rm	450	75.00	33750.00
6	WATER PROOFING WORK				
6.01	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 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.	sqm	30	143.85	4315.50
7.00	WOOD & STEEL WORK				
7.01	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second class teak wood	cum	3	52,090.00	156270.00
7.02	Providing and fixing ISI marked flush door shutters decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters - 35mm thick including anodised aluminium butt hinges with necessary screws.	sqm	21	1,473.50	30943.50
7.03	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 aluminium butt hinges with necessary screws.	sqm	9	929.95	8369.55
7.04	Extra for providing and fixing flush doors with teak veneering on one side in above item.	sqm	9	261.35	2352.15
7.05	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 no. 9.24 and 9.25	sqm	30	284.55	8536.50
7.06	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including black enamelled M.S. butt hinges with necessary screws excluding, panelling, which will be paid for separately - 35 mm thick - second class teak wood.	sqm	3	1373.65	3434.13
7.07	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled and glazed shutters 25 mm to 40 mm thick. - second class teak wood.	sqm	2	1075.60	1936.08
7.08	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	22	1718.30	37802.60
7.09	Providing and fixing bright finished brass tower bolts with necessary screws etc. complete - 250 x 10 mm	each	32	155.15	4964.80
7.10	Providing and fixing bright finished brass handles with screws etc. complete : - 125 mm	each	16	103.65	1658.40

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7.11	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	each	10	120.00	1200.00
7.12	Providing and fixing bright finished brass 100mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality)	each	10	1500.00	15000.00
7.13	Providing and fixing bright finished brass 100mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality)	each	6	750.00	4500.00
7.14	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete - Hardwyn make (Eddy) or equivalent	each	6	911.10	5466.60
7.15	Providing and fixing at all height false ceiling of 12.5 mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating 600 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia 40mm long with 6mm dia bolts to the angle hangers of 25x25x5mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre				
7.16	finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer-in-Charge but excluding the cost of painting.	sqm	10	502.10	5021.00
7.17	Providing and fixing in position wardrobe of 600 mm deep as per drawing made up of 18 mm thick waterproof plywood laminated on both sides with 0.8 mm thick laminate for inside, outside with 1 mm laminate for exposed shutters with all ends to be sealed with T.W margin with horizontal shelves and vertical partition each wardrobe units, shelves for coats, sarees, clothes and other household material, one number locker in both the units, shoe trays in each unit including the cost of all accessories, hardware like handles, locks, rods etc. all complete.	SqFt.	250	750.00	187500.00
8.00	FLOORING WORK				
8.01	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 polishing complete with. - Agaria White.	sqm	375	1,673.55	627581.25
8.02	Providing and fixing 1st quality ceramic glazed / porcelain wall tiles conforming to IS:15622 of (thickness to be specified by manufacture) of approved make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer in charge in skirting, wall, risers of steps and dados and toilet walls over 12 mm thick bed of cement mortar 1:3 (1 cement:3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	100	1448.55	144855.00
8.03	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.				
i.	Udaipur Green Marble	sqm	1	1,358.15	1358.15
ii.	Granite Black	sqm	4	2,543.65	10174.60

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8.04	Extra for providing edge moulding to 18 mm thick marble stone counters, Vanities etc. over above item no. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
i.	Marble Work	metre	2	57.90	115.80
ii.	Granite Work	metre	8	97.60	780.80
8.05	Extra for fixing marble/granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based (Araldite or equivalent)adhesive including cleaning etc. complete.	metre	1	106.80	106.80
8.06	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	2	151.00	302.00
8.07	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm	23	94.20	2166.60
8.08	Granite stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement:3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	sqm	21	676.75	14211.75
8.09	Kota stone slab flooring over 20mm(average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing & polishing complete with base of 1:4 (1 cement : 4 coarse sand): 25 mm thick	sqm	23	694.40	15971.20
9	SANITARY WORK				
9.01	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	20	144.75	2895.00
	ii) 20mm nominal bore	metre	50	170.15	8507.50
	iii) 25mm nominal bore	metre	50	215.95	10797.50
9.02	Making connection of G.I. Distribution branch and G.I. Main of follwing sizes by providing and fixing Tee including cutting and threading the pipe etc. complete.: 25 to 40 mm dia. nominal bore	each	6	166.00	996.00
9.03	Providing and fixing soil, waste and vent pipes : Centrifugally cast (spun) iron S&S pipes of dia 100mm	metre	40	730.40	29216.00
9.04	Providing and fixing plain bend of required degree : Centrifugally cast (spun) iron S&S for dia 100mm pipe	each	10	236.40	2364.00
9.05	Providing and fixing collar : Centrifugally cast (spun) iron S&S for 100 mm dia pipe	each	6	202.70	1216.20
9.06	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter: : 100 mm dia	each	50	126.50	6325.00
9.07	Providing and fixing sand cast iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Centrifugally cast (spun) iron S&S	each	18	544.30	9797.40
9.08	Cutting Holes upto 30 x 30 cm in walls including making good the same - With F.P.S. bricks	each	10	84.66	846.60
9.09	P/L C.C. 1:2:4, 3" thick around the C.I. pipe 100 mm nominal bore in horizontal stacks.	metre	25	400.00	10000.00
9.10	Providing and fixing of pastel colour vitreous china Wall hung water closet (European type W.C. pan - Cascade / Constellation model) with seat and lid & flushing cistern Parryware / Hindware / Cera with all fittings and fixtures complete including cutting and making good the walls and floors wherever required with coloured solid plastic seat and lid	each	6	10000.00	60000.00
9.11	Providing and fixing of pastel colour vitreous china wash basin (under counter) oval type size 550x400 with C.I. Brackets painted white, C.P. brass chain with rubber plug, 32 mm C.P. brass waste of standard pattern, 32 mm diameter C.P. bottle trap make "Parko" and complete, including cutting and making good the walls wherever required	each	6	4500.00	27000.00

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9.12	Providing and fixing Salem Stainless steel A ISI 304(18/8) kitchen sink single bowl 24" x 18" x 8"	each	2	5000.00	10000.00
9.13	Fixing C.P. brass fitting in toilet with extension pc., CP pipe & nut - bolt, washer etc. complete as per following detail :- Make of sanitary ware "PARKO - Classic (CROME)"				
i.	Concealed stopcock with sliding cap (Cate No. 1516)	each	6	900.00	5400.00
ii.	Concelled single lever mixer (4 way)	each	6	5000.00	30000.00
iii.	15 mm diameter small body bib cock	each	8	450.00	3600.00
iv.	Basin inlet connection with 15" long pipe (Cat No. 1519)	each	24	500.00	12000.00
v.	Providing and fixing overhead shower with shower arm	each	6	1500.00	9000.00
vi.	Providing and fixing hand shower	each	6	1500.00	9000.00
vii.	Single lever basin mixer (Cate No. 2100)	each	6	4500.00	27000.00
viii.	Paper holder (Cate No. 1553)	each	6	450.00	2700.00
ix.	Soap dish	each	6	450.00	2700.00
x.	Towel ring	each	6	450.00	2700.00
xi.	C.P. trap jali	each	18	100.00	1800.00
xii.	Providing and fixing CP brass robe hook	each	18	350.00	6300.00
xiii.	Flange (Cate No. 1581)	each	50	75.00	3750.00
xiv.	Fixing 5 mm thick mirror with Aluminium frame complete.	sqm	4	2500.00	10000.00
9.14	Providing and fixing PVC Water storage Tank of 2000 ltrs capacity with all inlet outlet connections. (platform to be paid seprately)	each	2	12000.00	24000.00
9.15	Supply & Installation of Hydropneumatic System with following technical specification of make UJALA SEALAND "JET KIT" with 19 Liters Tank. Pump Head 50 MF low rate 3300 LPH Pump Body made of Cast Iron Impeller, Diffuser, Nozzle & Venturi Tube made of Nory IShaft made of SS Mechanical Seal made of Carbon Ceramics Motor HP 1HP Motor Insulation F Class with necessary electrical wire & Plug Top upto the nearest power point (2.00 Mtr.)	each	2	25000.00	50000.00
9.16	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3: (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1: 2: 4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:	each	4	5383.70	21534.80
9.17	Providing and fixing square-month S.W. gully trap grade A complete with C.I. Grating brick masonry chamber with locally available best quality bricks and water tight C.I. Cover with frame of 300x300 mm size (inside). The weight of cover to be not less than 4.50 kg. and frame to be not less than 2.70 kg. as per standard design - 180x100 mm size P type with F.P.S. bricks with class designation 75	each	2	1036.75	2073.50
10	MISCELLANEOUS WORKS				
10.01	Providing & Fixing of Modular stainless steel "Weld Less" railing system for elevation and horizontal enclosures of required and approved size and shape confirming to AISI 304 with necessary components using expansion and hall socket jointing system complatible to stainless steel tube dia. 42.3mmx1.6mm or 42.3 mm & 50 mm Dia or 50.8 mm Dia with option of emplanment using stainless cables of Dia.5mm, stainless steel tubes of 16mm Dia. and 18mm Dia. or provision for fixing of glass, in 240 grit stain finish or mirror fininsh by fixing in walls and floors all complete as per drawing and approval of Engineer - in - Charge.	Rm	10	5000.00	50000.00

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
10.02	Providing & fixing M.S Grill of 20mx4mm thick M.S Flat, design of grill as per drawing fixed to wooden frame with steel screws finished with one coat of red oxide primer.	sqm	22	900.00	19800.00
10.03	Extra above item no. 10.02 for doing powder coating of required colour.	sqm	22	350.00	7700.00
11.00	ELECTRICAL WORK				
11.01	Providing and fixing surface-type installation of 25mm dia PVC conduit over concrete slab, brick-wall & false-ceiling includes joining of new installation with existing system if required as approved by Engineer - in - charge, including cost of supply of PVC conduit, pull boxes, junction boxes, bends & necessary hardware & labour etc. for fixing of conduit network.	RM	50	45.00	2250.00
11.02	Supply, Drawing, testing & commissioning of Copper Single core, PVC Insulated , 600V Grade, ISI marked Kalinga Cable of following sizes of cables in existing concealed / surface conduit as approved by Engineer - in - charge				
i.	a) 2x1.5+1x0.75 sq.mm copper conductor	RM	30	50.75	1522.50
ii.	b) 2x2.5+1x1.5 sq.mm copper conductor	RM	30	74.54	2236.20
iii.	c) 2x4.0+1x2.5 sq.mm copper conductor	RM	30	112.36	3370.80
iv.	d) 2x6+2.5sq.mm copper conductor (for split A.C)	RM	100	175.00	17500.00
11.03	Providing and fixing M.S. box & Plate of 'North West' / Anchor Roma make				
i.	1 way	Each	10	300.00	3000.00
ii.	2 way	Each	24	350.00	8400.00
iii.	4 way	Each	26	450.00	11700.00
11.04	Providing and fixing Switches & Sockets, of ' North west ' make.				
i.	i. Switch 6A One way	Each	130	74.56	9692.80
ii.	ii. Socket 6A - 3+2 Pin (Shuttered)	Each	30	150.00	4500.00
iii.	iii. Switch 16A One way	Each	20	98.51	1970.20
iv.	iv. Socket 16A & 6A - 6 Pin (Shuttered)	Each	20	250.00	5000.00
v.	v. Co axial T.V Socket	Each	10	100.00	1000.00
vi.	vi. Fan Regulator- 6 position step type(Hum free)	Each	14	450.00	6300.00
vii.	vii. Tel. Jack unit RJ-11 with shutter	Each	13	90.00	1170.00
viii.	viii. Blanking Plate one module	Each	10	25.00	250.00
ix.	ix. Socket 25 A. & 6 A- 6 pin (shuttered)	Each	10	250.00	2500.00
11.05	Supply, assembling, installation, testing & commissioning of following fixtures:				
i.	1-40 watts tube light (Philips Slim lite)	Each	20	800.00	16000.00
ii.	2x11 watts	Each	10	1500.00	15000.00
iii.	Mirror Tube Light fitting PMC 501236 Philips	Each	6	1200.00	7200.00
iv.	Fancy Bracket Light K-Lite , Ankur	Each	8	750.00	6000.00
v.	Supplying, Insatllation, testing & commisioning of 300mm dia 220 volts Exhaust Fan	Each	8	2000.00	16000.00
11.06	Suppky, Installtion , testing, comissioning of following wall mounted fan includes supply of necessary fixing material & hardware:- a) 450mm dia crompton make or appd. Equal	Each	4	3500.00	14000.00
11.07	Supply, drawing, testing & comissioning of 2 pair copper telephone wire ISI markKalinga Cable or equivalent, with following sizes/nos. of cables in existing conduit as approved by Project in-charge: 2 pair x 0.6mm size copper conductor wire PVC insulated cable	RM	200	40.00	8000.00
11.08	Supply, drawing, testing & comissioning of TV Cable ISI mark make & size as approved by Project in-charge T.V coaxial wire LCG-21	RM	150	45.00	6750.00
11.09	Distribution Board:-				
	Supplying, fixing, connecting, testing & comissioning the undermentioned double door recessed type D.B's with copper busbar, neutral links, and earth terminals all enclosed in a 16G M.S box complete with hingedmetal covers, interconnections bonding to earth, painting and labeling as reqd. with MCBs mounted in tiers:				

					ANNEXURE-II
BILL OF QUANTITY					
(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.					
S. No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
i	a) Lighting Distribution board	Each	1	12500.00	12500.00
	Incomer:- 1 no. 40A TP MCB				
	Outgoing:- 3nos 32A DP ELCBs 100mA, 12 nos 6/16A SP MCB				
ii	b) Power Distribution Board	Each	1	15100.00	15100.00
	Incomer:- 1 no. 40A TP MCB				
	Outgoing:- 3nos 32A DP ELCBs 100mA, 18nos 6/16A SP MCB				
	GRAND TOTAL OF SI. 1 TO 11				2394806.68
	(Inclusive of all taxes as applicable on works contract)				
	Percentage above / Percentage below on the Grand Total Amount =				

BILL OF QUANTITY

(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.

S. No.	DESCRIPTION	UNIT	QTY	Vendor Compliance	Vendor Remarks
1	DISMANTLING AND DEMOLISHING				
1.01	Dismantling of old tile work in floors and wall, doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts, G.I. Pipes / C.I. Pipes (internal / external), flushing cistern / urinals, existing bath room fittings, China ware fitting of any type like WC, Wash Basin etc. alongwith demolishing R.C.C. / CC work, cutting of reinforcement, brick work etc. and prepering the surface for plaster including diposal & stacking of material at ground floor within 50 metres lead including lifting and taking out the unusable mulba out side the BHEL premises at the risk and cost of contractor and upto the satisfaction of Engineer-in-Charge. (Complete job required for flat No. 271 & 272)	Job	1	Yes	
2	PLAIN CONCRETE WORK				
2.01	Providing and 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	25	Yes	
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	50	Yes	
2.03	Extra for concrete work in superstructure above plinth level for each four floors or part thereof.	cum	15	Yes	
2.04	Cinder Filling	cum	4	Yes	
3	REINFORCEMENT CEMENT CONCRETE WORK				
3.01	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	1	Yes	
3.02	Centring and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform.	sqm	5	Yes	
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete - Cold twisted bars	kg	100	Yes	
4	BRICK WORK				
4.01	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in : Cement mortar 1:4 (1cement : 4 coarse sand)	cum	5	Yes	
4.02	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in : Cement mortar 1:3 (1cement : 3 coarse sand)	sqm	25	Yes	
5	PLASTERING & FINISHING WORK				
5.01	Providing cement plaster in CM 1:4 (1 cement : 4 coarse sand) on walls, columns etc. at all levels - 15 mm thick	sqm	150	Yes	
5.02	15 mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement : 3 fine sand)	sqm	50	Yes	
5.03	Applying one coat of cement primer of approved brand and manufacture on wall surface - Cement Primer	sqm	1100	Yes	
5.04	Painting with plastic emulsion paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	1100	Yes	
5.05	Applying primer - With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	100	Yes	
5.06	Painting with enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	100	Yes	
5.07	French spirit polishing - Two or more coats on new works including a coat of wood filler.	sqm	100	Yes	

ANNEXURE-II					
BILL OF QUANTITY					
(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.					
S. No.	DESCRIPTION	UNIT	QTY	Vendor Compliance	Vendor Remarks
5.08	Malamine polishing coat on wood work (one or more coat) to give malamine finish on over and above item.	sqm	100	Yes	
5.09	Providing and applying 6mm thk. P.O.P. punning (calcium sulphate semi hydrate variety) over wall & ceiling surface with plastic emulsion paint, including rounding, chamfering of corners, to give a smooth surface in true line and level.	sqm	1100	Yes	
5.10	Providing gypsum cornice of size 100 x 100 mm	Rm	450	Yes	
5.11	Providing gypsum moulding of size 50 x 50 mm	Rm	450	Yes	
6	WATER PROOFING WORK				
6.01	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 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.	sqm	30	Yes	
7.00	WOOD & STEEL WORK				
7.01	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second class teak wood	cum	3	Yes	
7.02	Providing and fixing ISI marked flush door shutters decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cros bands and face veneers on both faces of shutters - 35mm thick including anodised aluminium butt hinges with necessary screws.	sqm	21	Yes	
7.03	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 aluminium butt hinges with necessary screws.	sqm	9	Yes	
7.04	Extra for providing and fixing flush doors with teak veneering on one side in above item.	sqm	9	Yes	
7.05	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depthon all edges of shutters (over all area of door shutter to be measured) Over item no. 9.24 and 9.25	sqm	30	Yes	
7.06	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including black enamelled M.S. butt hinges with necessary screws excluding, panelling, which will be paid for seperately - 35 mm thick - second class teak wood.	sqm	3	Yes	
7.07	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled and glazed shutters 25 mm to 40 mm thick. - second class teak wood.	sqm	2	Yes	
7.08	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	22	Yes	
7.09	Providing and fixing bright finished brass tower bolts with necessary screws etc. complete - 250 x 10 mm	each	32	Yes	
7.10	Providing and fixing bright finished brass handles with screws etc. complete : - 125 mm	each	16	Yes	
7.11	Providing and fixing bright finished brass hanging type floor door stoper with necessary screws, etc. complete	each	10	Yes	
7.12	Providing and fixing brigh finished brass 100mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality)	each	10	Yes	

					ANNEXURE-II
BILL OF QUANTITY					
(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.					
S. No.	DESCRIPTION	UNIT	QTY	Vendor Compliance	Vendor Remarks
7.13	Providing and fixing bright finished brass 100mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality)	each	6	Yes	
7.14	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete - Hardwyn make (Eddy) or equivalent	each	6	Yes	
7.15	Providing and fixing at all height false ceiling of 12.5 mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating 600 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastner 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x5mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick botton wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling				
7.16	finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer-in-Charge but excluding the cost of painting.	sqm	10	Yes	
7.17	Providing and fixing in positon ward robe of 600 mm deep as per drawing made up of 18 mm thick waterproof plywood laminated on both sides with 0.8 mm thick laminate for inside, outside with 1 mm laminate for exposed shutters with all ends to be sealed with T.W margin with horizontal shelves and vertical partition each ward robe units, shelves for coats, sarees, clothes and other household material, one number locker in both the units, shoe trays in each unit including the cost of all accessories, hardware like handles, locks, rods etc. all complete.	SqFt.	250	Yes	
8.00	FLOORING WORK				
8.01	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 polishing complete with. - Agaria White.	sqm	375	Yes	
8.02	Providing and fixing 1st quality ceramic glazed / porcelain wall tiles conforming to IS:15622 of (thickness to be specified by manufacture) of approved make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer in charge in skirting, wall,risers of steps and dados and toilet walls over 12 mm thick bed of cement mortar 1:3 (1 cement:3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	100	Yes	
8.03	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				
i.	Udaipur Green Marble	sqm	1	Yes	
ii.	Granite Black	sqm	4	Yes	
8.04	Extra for providing edge moulding to 18 mm thick marble stone counters, Vanities etc. over above item no. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
i.	Marble Work	metre	2	Yes	
ii.	Granite Work	metre	8	Yes	
8.05	Extra for fixing marble/granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based (Araldite or equivalent)adhesive including cleaning etc complete.	metre	1	Yes	

ANNEXURE-II					
BILL OF QUANTITY					
(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.					
S. No.	DESCRIPTION	UNIT	QTY	Vendor Compliance	Vendor Remarks
8.06	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	2	Yes	
8.07	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm	23	Yes	
8.08	Granite stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement:3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	sqm	21	Yes	
8.09	Kota stone slab flooring over 20mm(average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing & polishing complete with base of 1:4 (1 cement : 4 coarse sand): 25 mm thick	sqm	23	Yes	
9	SANITARY WORK				
9.01	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	20	Yes	
	ii) 20mm nominal bore	metre	50	Yes	
	iii) 25mm nominal bore	metre	50	Yes	
9.02	Making connection of G.I. Distribution branch and G.I. Main of following sizes by providing and fixing Tee including cutting and threading the pipe etc. complete.: 25 to 40 mm dia. nominal bore	each	6	Yes	
9.03	Providing and fixing soil, waste and vent pipes : Centrifugally cast (spun) iron S&S pipes of dia 100mm	metre	40	Yes	
9.04	Providing and fixing plain bend of required degree : Centrifugally cast (spun) iron S&S for dia 100mm pipe	each	10	Yes	
9.05	Providing and fixing collar : Centrifugally cast (spun) iron S&S for 100 mm dia pipe	each	6	Yes	
9.06	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter: : 100 mm dia	each	50	Yes	
9.07	Providing and fixing sand cast iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Centrifugally cast (spun) iron S&S	each	18	Yes	
9.08	Cutting Holes upto 30 x 30 cm in walls including making good the same - With F.P.S. bricks	each	10	Yes	
9.09	P/L C.C. 1:2:4, 3" thick around the C.I. pipe 100 mm nominal bore in horizontal stacks.	metre	25	Yes	
9.10	Providing and fixing of pastel colour vitreous china Wall hung water closet (European type W.C. pan - Cascade / Constellation model) with seat and lid & flushing cistern Parryware / Hindware / Cera with all fittings and fixtures complete including cutting and making good the walls and floors wherever required with coloured solid plastic seat and lid	each	6	Yes	
9.11	Providing and fixing of pastel colour vitreous china wash basin (under counter) oval type size 550x400 with C.I. Brackets painted white, C.P. brass chain with rubber plug, 32 mm C.P. brass waste of standard pattern, 32 mm diameter C.P. bottle trap make "Parko" and complete, including cutting and making good the walls wherever required	each	6	Yes	
9.12	Providing and fixing Salem Stainless steel A ISI 304(18/8) kitchen sink single bowl 24" x 18" x 8"	each	2	Yes	
9.13	Fixing C.P. brass fitting in toilet with extension pc., CP pipe & nut - bolt, washer etc. complete as per following detail :- Make of sanitary ware "PARKO - Classic (CROME)"				
i.	Concealed stopcock with sliding cap (Cate No. 1516)	each	6	Yes	
ii.	Concealed single lever mixer (4 way)	each	6	Yes	
iii.	15 mm diameter small body bib cock	each	8	Yes	
iv.	Basin inlet connection with 15" long pipe (Cat No. 1519)	each	24	Yes	
v.	Providing and fixing overhead shower with shower arm	each	6	Yes	
vi.	Providing and fixing hand shower	each	6	Yes	
vii.	Single lever basin mixer (Cate No. 2100)	each	6	Yes	

ANNEXURE-II					
BILL OF QUANTITY					
(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.					
S. No.	DESCRIPTION	UNIT	QTY	Vendor Compliance	Vendor Remarks
viii.	Paper holder (Cate No. 1553)	each	6	Yes	
ix.	Soap dish	each	6	Yes	
x.	Towel ring	each	6	Yes	
xi	C.P. trap jali	each	18	Yes	
xii	Providing and fixing CP brass robe hook	each	18	Yes	
xiii	Flange (Cate No. 1581)	each	50	Yes	
xiv	Fixing 5 mm thick mirror with Aluminium frame complete.	sqm	4	Yes	
9.14	Providing and fixing PVC Water storage Tank of 2000 ltrs capacity with all inlet outlet connections. (platform to be paid separately)	each	2	Yes	
9.15	Supply & Installation of Hydropneumatic System with following technical specification of make UJALA SEALAND "JET KIT" with 19 Liters Tank. Pump Head 50 MF low rate 3300 LPH Pump Body made of Cast Iron Impeller, Diffuser, Nozzle & Venturi Tube made of Nory IShaft made of SS Mechanical Seal made of Carbon Ceramics Motor HP 1HP Motor Insulation F Class with necessary electrical wire & Plug Top upto the nearest power point (2.00 Mtr.)	each	2	Yes	
9.16	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3: (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1: 2: 4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:	each	4	Yes	
9.17	Providing and fixing square-month S.W. gully trap grade A complete with C.I. Grating brick masonry chamber with locally available best quality bricks and water tight C.I. Cover with frame of 300x300 mm size (inside). The weight of cover to be not less than 4.50 kg. and frame to be not less than 2.70 kg. as per standard design - 180x100 mm size P type with F.P.S. bricks with class designation 75	each	2	Yes	
10	MISCELLANEOUS WORKS				
10.01	Providing & Fixing of Modular stainless steel "Weld Less" railing system for elevation and horizontal enclosures of required and approved size and shape confirming to AISI 304 with necessary components using expansion and ball socket jointing system compatible to stainless steel tube dia. 42.3mmx1.6mm or 42.3 mm & 50 mm Dia or 50.8 mm Dia with option of empanelment using stainless cables of Dia.5mm, stainless steel tubes of 16mm Dia. and 18mm Dia. or provision for fixing of glass, in 240 grit stain finish or mirror finish by fixing in walls and floors all complete as per drawing and approval of Engineer - in - Charge.	Rm	10	Yes	
10.02	Providing & fixing M.S Grill of 20mx4mm thick M.S Flat, design of grill as per drawing fixed to wooden frame with steel screws finished with one coat of red oxide primer.	sqm	22	Yes	
10.03	Extra above item no. 10.02 for doing powder coating of required colour.	sqm	22	Yes	
11.00	ELECTRICAL WORK				
11.01	Providing and fixing surface-type installation of 25mm dia PVC conduit over concrete slab, brick-wall & false-ceiling includes joining of new installation with existing system if required as approved by Engineer - in - charge, including cost of supply of PVC conduit, pull boxes, junction boxes, bends & necessary hardware & labour etc. for fixing of conduit network.	RM	50	Yes	
11.02	Supply, Drawing, testing & commissioning of Copper Single core, PVC Insulated , 600V Grade, ISI marked Kalinga Cable of following sizes of cables in existing concealed / surface conduit as approved by Engineer - in - charge				
i.	a) 2x1.5+1x0.75 sq.mm copper conductor	RM	30	Yes	
ii.	b) 2x2.5+1x1.5 sq.mm copper conductor	RM	30	Yes	
iii.	c) 2x4.0+1x2.5 sq.mm copper conductor	RM	30	Yes	
iv.	d) 2x6+2.5sq.mm copper conductor (for split A.C)	RM	100	Yes	
11.03	Providing and fixing M.S. box & Plate of 'North West' / Anchor Roma make				
i.	1 way	Each	10	Yes	
ii.	2 way	Each	24	Yes	
iii.	4 way	Each	26	Yes	
11.04	Providing and fixing Switches & Sockets, of 'North west' make.				
i.	i. Switch 6A One way	Each	130	Yes	

					ANNEXURE-II
BILL OF QUANTITY					
(B) RENOVATION & MODIFICATION OF FLAT No. 271- 272 AS AS TRANSIT FLAT AT ASIAD VILLAGE, NEW DELHI.					
S. No.	DESCRIPTION	UNIT	QTY	Vendor Compliance	Vendor Remarks
ii.	ii. Socket 6A - 3+2 Pin (Shuttered)	Each	30	Yes	
iii.	iii. Switch 16A One way	Each	20	Yes	
iv.	iv. Socket 16A & 6A - 6 Pin (Shuttered)	Each	20	Yes	
v.	v. Co axial T.V Socket	Each	10	Yes	
vi.	vi. Fan Regulator- 6 position step type(Hum free)	Each	14	Yes	
vii.	vii. Tel. Jack unit RJ-11 with shutter	Each	13	Yes	
viii.	viii. Blanking Plate one module	Each	10	Yes	
ix.	ix. Socket 25 A. & 6 A- 6 pin (shuttered)	Each	10	Yes	
11.05	Supply, assembling, installation, testing & commissioning of following fixtures:				
i.	1-40 watts tube light (Philips Slim lite)	Each	20	Yes	
ii.	2x11 watts	Each	10	Yes	
iii.	Mirror Tube Light fitting PMC 501236 Philips	Each	6	Yes	
iv.	Fancy Bracket Light K-Lite , Ankur	Each	8	Yes	
v.	Supplying, Insatllation, testing & commisioning of 300mm dia 220 volts Exhaust Fan	Each	8	Yes	
11.06	Supply, Instalton , testing, commisioning of following wall mounted fan includes supply of necessa fixing material & hardware:- a) 450mm dia crompton make or appd. Equal	Each	4	Yes	
11.07	Supply, drawing, testing & comissioning of 2 pair copper telephone wire ISI markKalinga Cable or equivalent, with following sizes/nos. of cables in existing conduit as approved by Project in-charge: 2 pair x 0.6mm size copper conductor wire PVC insulated cable	RM	200	Yes	
11.08	Supply, drawing, testing & comissioning of TV Cable ISI mark make & size as approved by Project in-charge T.V coaxial wire LCG-21	RM	150	Yes	
11.09	Distribution Board:-				
	Supplying, fixing, connecting, testing & comissioning the undermentioned double door recessed type D.B's with copper busbar, neutral links, and earth terminals all enclosed in a 16G M.S box complete with hingedmetal covers, interconnections bonding to earth, painting and labeling as reqd. with MCBs mounted in tiers:				
i	a) Lighting Distribution board	Each	1	Yes	
	Incomer:- 1 no. 40A TP MCB				
	Outgoing:- 3nos 32A DP ELCBs 100mA, 12 nos 6/16A SP MCB				
ii	b) Power Distribution Board	Each	1	Yes	
	Incomer:- 1 no. 40A TP MCB				
	Outgoing:- 3nos 32A DP ELCBs 100mA, 18nos 6/16A SP MCB				
	GRAND TOTAL OF SI. 1 TO 11 (Inclusive of all taxes as applicable on works contract)				
	Percentage above / Percentage below on the Grand Total Amount =				

BILL OF QUANTITY					ANNEXURE- III
(C) Renovation of Toilets of 5 floors of Admn. Block					
			5		
SI. No.	DESCRIPTION	UNIT	Qty for 5 floor	RATE (Rs).	AMOUNT (Rs).
1.01	Dismantling of old tile work in floors and wall, doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts, G.I. Pipes/C.I. Pipes (internal/external), flushing cistern/urinals, existing bath room fittings, China ware fitting of any type like WC, Wash Basin etc. alongwith demolishing R.C.C. / CC work, cutting of reinforcement, brick work etc. and preapering the surface for plaster including diposal & stacking of material at ground floor within 50 metres lead including lifting and taking out the unusable mulba out side the BHEL premises at the risk and cost of contractor and upto the satisfaction of Engineer-in-Charge. (Toilets of Administrative block 1st to 5th floor)	LS	5	15000.00	75000.00
2	PLAIN CONCRETE WORK				
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) including extra for concrete work in superstructure above plinth level for each four floors or part thereof.	cum	15	3034.70	45520.50
2.02	Extra for providing and mixing water proofing material 'Impermo' or equevalent in cement concrete work in the proporation recommended by the manufacturers.	per bag of 50 kg. of cement used in the mix	150	27.45	4117.50
3	REINFORCEMENT CEMENT CONCRETE WORK				
3.01	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases & spiral stair cases excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	cum	10	3673.85	36738.50
3.02	Centring and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform.	sqm	25	187.35	4683.75
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete - Cold twisted bars	kg	500	42.70	21350.00
4	BRICK WORK				
4.01	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in : Cement mortar 1:3 (1cement : 3 coarse sand)	sqm	325	322.00	104650.00
5	PLASTERING & FINISHING WORK				
5.01	15 mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement : 3 fine sand)	sqm	75	122.50	9187.50
5.02	Applying one coat of cement primer of approved brand and manufacture on wall surface of Cement Primer	sqm	100	17.20	1720.00
5.03	Wall Painting with plastic emulsion paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	100	40.05	4005.00
5.04	Applying primer coat - With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	140	16.55	2317.00
5.05	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work.	sqm	140	33.25	4655.00
5.06	Frensh spirit polishing - Two or more coats on new works including a coat of wood filler.	sqm	40	75.60	3024.00
5.07	Providing gypsum cornice of size 100 x 100 mm	rm	500	100.00	50000.00

BILL OF QUANTITY					ANNEXURE- III
(C) Renovation of Toilets of 5 floors of Admn. Block					
5					
SI. No.	DESCRIPTION	UNIT	Qty for 5 floor	RATE (Rs.)	AMOUNT (Rs.)
6	WATER PROOFING WORK				
6.01	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: 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.	sqm	625	143.85	89906.25
7.00	WOOD & STEEL WORK				
7.01	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second class teak wood	cum	2.5	52090.00	130225.00
7.02	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 - 35 mm thick including ISI marked Stainless Steel butt hnges with necessary screws.	sqm	80	929.95	74396.00
7.03	Extra for providing and fixing flush doors with teak veneering on both side in above item of 35 mm thick flush door shutter .	sqm	30	261.35	7840.50
7.04	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 no. 7.02	sqm	80	284.55	22764.00
7.05	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete - 250 x 16 mm	each	20	134.10	2682.00
7.06	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete - 250 x 10 mm	each	20	62.20	1244.00
7.07	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete - 125 mm	each	90	48.80	4392.00
7.08	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete - Hardwyn make (Eddy) or equivalent	each	35	911.10	31888.50
7.09	Providing & fixing at all height false ceiling system with 600 x 600mm Aluminium Perforated tile of 0.5 mm thick having powder coating of minimum 50 micron including providing and fixing of frame work as per manufacturers specification including making openings for light fitting, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete with Armstrong / Comceil / Hunter Douglas / Harisson make etc. complete as per drawings and specification and direction of the Engineer-in-Charge.	sqm.	175	1345.00	235375.00
7.10	Providing and fixing at all height false ceiling of 12.5mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coting 600 as per IS :277 and consisting of angle cleats of size 25mm centre to centre one flange fixed to the ceiling with dash fastner 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x5mm of rquired length, and other end of angle hinger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre (Contd.)				

BILL OF QUANTITY					ANNEXURE- III
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	RATE (Rs).	AMOUNT (Rs).
	to which the ceiling section 0.5mm thick botton wedge of 80mm with tapered flanges of 26mm each having clips of 10.5 mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made uut of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing with and fixing to flush finish of taperesd and square edges of the gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the coat of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all com;lete as per drawing and specification and direction of the Engineer-in-Charge but excuding the cost of painting.	S	165	502.10	82846.50
8.00	FLOORING WORK				
8.01	Providing and laying polished vitrified floor / wall tiles in different sizes, design and color & with matching border of 2 to 3 inches wide on wall at 2.5' & 7' ht. (thickness to be specified by the manufacturer) with water absorptions less than 1% and flexural strength not less than 30N/mm ² , in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white vement and matching pigments etc., complete of reqired size upto 60cmx60cm	sqm	765	1448.55	1108140.75
	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 polishing complete with. - Agaria White.	sqm	160	1673.55	267768.00
8.02	Providing and fixing 18mm 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 20mm 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 : over 1.0sqm but upto 2.0sqm.				
i.	Udaipur Green Marble	sqm	10	1358.15	13581.50
ii.	Granite Black	sqm	25	2543.65	63591.25
8.03	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. over item no.8.2 including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
i.	Marble Work	metre	60	57.90	3474.00
ii.	Granite Work	metre	25	97.60	2440.00
8.04	Extra for fixing marble/granite stone over and above corresponding basic item, in facia and drops of width upto 150mm with expoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.	metre	15	106.80	1602.00
8.05	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	50	151.00	7550.00
8.06	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm	35	94.20	3297.00
9	SANITARY WORK				
9.01	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.				

ANNEXURE- III					
BILL OF QUANTITY					
(C) Renovation of Toilets of 5 floors of Admn. Block			5		
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	RATE (Rs.)	AMOUNT (Rs.)
i	15mm nominal bore	metre	100	144.75	14475.00
ii	20mm nominal bore	metre	100	170.15	17015.00
iii	25mm nominal bore	metre	75	195.55	14666.25
9.02	Making connection of G.I. Distribution branch and G.I. Main of following sizes by providing and fixing Tee including cutting and threading the pipe etc. complete of 25 to 40 mm dia. nominal bore	each	50	166.05	8302.50
9.03	Providing and fixing soil, waste and vent pipes : 100 mm dia pipe Centrifugally cast (spun) iron S&S	metre	75	730.40	54780.00
9.04	Providing and fixing plain bend of required degree : 100 mm dia pipe Centrifugally cast (spun) iron S&S	each	50	236.40	11820.00
9.05	Providing and fixing collar : 100 mm dia pipe Centrifugally cast (spun) iron S&S	each	30	202.70	6081.00
9.06	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter: : 100 mm dia	each	125	126.50	15812.50
9.07	Providing and fixing sand cast iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Centrifugally cast	each	50	544.30	27215.00
9.08	Cutting Holes upto 30 x 30 cm in walls including making good the same - With F.P.S. bricks	each	30	84.66	2539.80
9.09	Providing and fixing 6 mm thick looking mirror of Modi guard or equivalent with all side 1" vabling & making hole along with fixing arrangement etc. complete.	Sqm.	200	125.00	25000.00
9.09	P/L C.C. 1:2:4, 3" thick round the C.I. pipe 100 mm nominal bore in horizontal stacks.	RM	100	400.00	40000.00
9.10	Providing and fixing of pastel colour vitreous china Wall hung water closet (European type W.C. pan - Cascade / Constellation model) with seat and lid & flushing cistern Parryware / Hindware / Cera with all fittings and fixtures complete including cutting	each	20	10000.00	200000.00
9.11	Providing and fixing of pastel colour vitreous china wash basin (under counter) oval type size 550x400 with C.I. Brackets painted white, C.P. brass chain with rubber plug, 32 mm C.P. brass waste of standard pattern, 32 mm diameter C.P. bottle trap make	each	30	4500.00	135000.00
9.12	Providing and fixing white vitreous china flat back half stall urinal of 580x380x350mm with white PVC automatic flushing cistern, Parryware / Hindware / Seabird / Orient (Coral) with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 liter P.V.C. automatic flushing cistern.	each	30	3720.30	111609.00
9.13	Extra for using pastel colour half stall urinal of 580x380x350mm instead of white half stall urinal of 580x380x350mm	each	30	3500.00	105000.00
9.14	Extra for using infrared sensor system of AOS or equivalent instead of white white PVC automatic flushing cistern for Urinals	each	30	6000.00	180000.00
9.15	Providing and fixing of pastel colour vitreous china Division Plate of Parryware / Hindware / Cera with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :	each	15	2500.00	37500.00

BILL OF QUANTITY					ANNEXURE- III
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
SI. No.	DESCRIPTION	UNIT	Qty for 5 floor	RATE (Rs.)	AMOUNT (Rs.)
9.16	Fixing C.P. brass fitting in toilet with extension pc., caps, CP pipe & nut - bolt, washer etc. complete as per following detail :- Make of sanitary ware "PARKO - Classic (CROME)"				
i.	Concealed stopcock with sliding cap (Cate No. 1516)	each	20	900.00	18000.00
ii.	15 mm diameter small body bib cock	each	35	450.00	15750.00
iii.	Basin inlet connection with 15" long pipe (Cat No. 1519)	each	50	500.00	25000.00
iv.	Single lever basin mixer (Cate No. 2100)	each	30	4500.00	135000.00
v.	Paper holder (Cate No. 1553)	each	20	450.00	9000.00
vi.	Soap dish	each	30	450.00	13500.00
vii.	Towel ring	each	20	450.00	9000.00
viii.	C. P. trap jali	each	50	100.00	5000.00
ix.	Flange (Cate No. 1581)	each	85	75.00	6375.00
10.00	ELECTRICAL WORK				
10.01	Providing and fixing surface/concealed type installation of 25mm dia PVC conduit over concrete slab, brick-wall & false-ceiling includes joining of new installation with existing system as required and directed by the Engineer - in - charge, including cost of supply.	RM	250	41.06	10265.00
10.02	Supply, Drawing, testing & commissioning of Copper Single core, PVC Insulated , 600V Grade, ISI marked Kalinga Cable or equivalent of following sizes of cables in existing concealed / surface conduit as approved by Engineer - in - charge				
i.	a) 3x1.5 mm ² single core copper conductor PVC insulated cable	RM	1,000	50.75	50750.00
ii.	b) 3x2.5 mm ² single core copper conductor PVC insulated cable	RM	125	74.54	9317.50
iii.	c) 3x4.0 mm ² single core copper conductor PVC insulated cable	RM	75	112.36	8427.00
10.03	Providing and fixing M.S. box & Plate of 'North West' / Anchor Roma make				
i.	2 way	Each	10	350.00	3500.00
ii.	4 way	Each	60	450.00	27000.00
10.04	Providing and fixing Switches & Sockets, of ' North west ' make.				
i.	i. Switch 6A One way	Each	140	74.56	10438.40
ii.	ii. Socket 6A - 3+2 Pin (Shuttered)	Each	40	150.00	6000.00
iii.	iii. Switch 16A One way	Each	10	98.51	985.10
iv.	iv. Socket 16A & 6A - 6 Pin (Shuttered)	Each	10	250.00	2500.00
10.05	Supply, assembling, installation, testing & commissioning of following fixtures in toilets.				
i.	Providing & fixing of fixture of Philips make complete set of size 600 x 600mm mirror optics of 3x36 W CFL tubes etc. complete & as per approved drawings, specification and direction of the Engineer-in-Charge.	Each	35	4000.00	140000.00
ii.	Providing and fixing recessed type Light Fitting having properties of anti glair & anti noise with Electronic choke, Compact Fluorescent Lamp etc. Wipro or equivalent -Ceiling/Wall mounted lights (Down light spot) as approved by the Engineer-in-Charge.	Each	20	750.00	15000.00
iii.	Providing and fixing exhaust Fan - 12" dia of Crompton/GEC or equivalent the Engineer-in-Charge.	Each	20	1500.00	30000.00
GRAND TOTAL OF SI. 1 TO 10 (Inclusive of all taxes as applicable on works contract)					4079597.05
Percentage above / Percentage below on the Grand Total Amount =					

BILL OF QUANTITY					
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	Vendor Compliance	Vendor Remarks
1	DISMANTLING AND DEMOLISHING				
1.01	Dismantling of old tile work in floors and wall, doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts, G.I. Pipes/C.I. Pipes (internal/external), flushing cistern/urinals, existing bath room fittings, China ware fitting of any type like WC, Wash Basin etc. alongwith demolishing R.C.C. / CC work, cutting of reinforcement, brick work etc. and preapering the surface for plaster including diposal & stacking of material at ground floor within 50 metres lead including lifting and taking out the unusable mulba out side the BHEL premises at the risk and cost of contractor and upto the satisfaction of Engineer-in-Charge. (Toilets of Administrative block 1st to 5th floor)	LS	5	Yes	
2	PLAIN CONCRETE WORK				
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) including extra for concrete work in superstructure above plinth level for each four floors or part thereof.	cum	15	Yes	
2.02	Extra for providing and mixing water proofing material 'Impermo' or equevalent in cement concrete work in the poropition recommended by the manufacturers.	per bag of 50 kg. of cement used in the mix	150	Yes	
3	REINFORCEMENT CEMENT CONCRETE WORK				
3.01	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases & spiral stair cases excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	cum	10	Yes	
3.02	Centring and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform.	sqm	25	Yes	
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete - Cold twisted bars	kg	500	Yes	
4	BRICK WORK				
4.01	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in : Cement mortar 1:3 (1cement : 3 coarse sand)	sqm	325	Yes	
5	PLASTERING & FINISHING WORK				
5.01	15 mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement : 3 fine sand)	sqm	75	Yes	
5.02	Applying one coat of cement primer of approved brand and manufacture on wall surface of Cement Primer	sqm	100	Yes	
5.03	Wall Painting with plastic emulsion paint of approved brand and manufacture to give an even shade - Two or more coats on new work	sqm	100	Yes	
5.04	Applying primer coat - With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	140	Yes	
5.05	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work.	sqm	140	Yes	
5.06	Frensh spirit polishing - Two or more coats on new works including a coat of wood filler.	sqm	40	Yes	
5.07	Providing gypsum cornice of size 100 x 100 mm	rm	500	Yes	

BILL OF QUANTITY					
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	Vendor Compliance	Vendor Remarks
6	WATER PROOFING WORK				
6.01	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: 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.	sqm	625	Yes	
7.00	WOOD & STEEL WORK				
7.01	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position : Second class teak wood	cum	2.5	Yes	
7.02	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 - 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	80	Yes	
7.03	Extra for providing and fixing flush doors with teak veneering on both side in above item of 35 mm thick flush door shutter .	sqm	30	Yes	
7.04	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 no. 7.02	sqm	80	Yes	
7.05	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete - 250 x 16 mm	each	20	Yes	
7.06	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete - 250 x 10 mm	each	20	Yes	
7.07	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete - 125 mm	each	90	Yes	
7.08	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete - Hardwyn make (Eddy) or equivalent	each	35	Yes	
7.09	Providing & fixing at all height false ceiling system with 600 x 600mm Aluminium Perforated tile of 0.5 mm thick having powder coating of minimum 50 micron including providing and fixing of frame work as per manufacturers specification including making openings for light fitting, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete with Armstrong / Comceil / Hunter Douglas / Harisson make etc. complete as per drawings and specification and direction of the Engineer-in-Charge.	sqm.	175	Yes	
7.10	Providing and fixing at all height false ceiling of 12.5mm thick tapered edge gypsum board conforming to IS : 2095 including providng and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coting 600 as per IS :277 and consisting of angle cleats of size 25mm centre to centre one flange fixed to the ceiling with dash fastner 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x5mm of rquired length, and other end of angle hinger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre (Contd.)			Yes	

BILL OF QUANTITY					
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	Vendor Compliance	Vendor Remarks
	to which the ceiling section 0.5mm thick botton wedge of 80mm with tapered flanges of 26mm each having clips of 10.5 mm at 450mm centre to centre shall be fixed in a direction prependicular to G.I. channel with connecting clips made uut of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimetert of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing with and fixing to flush finish of tapered and square edges of the gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the coat of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all com;lete as per drawing and specification and direction of the Engineer-in-Charge but excuding the cost of painting.	S	165	Yes	
8.00	FLOORING WORK				
8.01	Providing and laying polished vitrified floor / wall tiles in different sizes, design and color & with matching border of 2 to 3 inches wide on wall at 2.5' & 7' ht. (thickness to be specified by the manufacturer) with water absorptions less than 1% and flexural strength not less than 30N/mm ² , in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white vement and matching pigments etc., complete of required size upto 60cmx60cm	sqm	765	Yes	
	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 polishing complete with. - Agaria White.	sqm	160	Yes	
8.02	Providing and fixing 18mm 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 20mm 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 : over 1.0sqm but upto 2.0sqm.			Yes	
i.	Udaipur Green Marble	sqm	10	Yes	
ii.	Granite Black	sqm	25	Yes	
8.03	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. over item no.8.2 including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.			Yes	
i.	Marble Work	metre	60	Yes	
ii.	Granite Work	metre	25	Yes	
8.04	Extra for fixing marble/granite stone over and above corresponding basic item, in facia and drops of width upto 150mm with epoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.	metre	15	Yes	
8.05	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	50	Yes	
8.06	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	sqm	35	Yes	
9	SANITARY WORK				
9.01	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.				

BILL OF QUANTITY					
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	Vendor Compliance	Vendor Remarks
i	15mm nominal bore	metre	100	Yes	
ii	20mm nominal bore	metre	100	Yes	
iii	25mm nominal bore	metre	75	Yes	
9.02	Making connection of G.I. Distribution branch and G.I. Main of following sizes by providing and fixing Tee including cutting and threading the pipe etc. complete of 25 to 40 mm dia. nominal bore	each	50	Yes	
9.03	Providing and fixing soil, waste and vent pipes : 100 mm dia pipe Centrifugally cast (spun) iron S&S	metre	75	Yes	
9.04	Providing and fixing plain bend of required degree : 100 mm dia pipe Centrifugally cast (spun) iron S&S	each	50	Yes	
9.05	Providing and fixing collar : 100 mm dia pipe Centrifugally cast (spun) iron S&S	each	30	Yes	
9.06	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter: : 100 mm dia	each	125	Yes	
9.07	Providing and fixing sand cast iron trap of self cleansing design with sand cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Centrifugally cast	each	50	Yes	
9.08	Cutting Holes upto 30 x 30 cm in walls including making good the same - With F.P.S. bricks	each	30	Yes	
9.09	Providing and fixing 6 mm thick looking mirror of Modi guard or equivalent with all side 1" vabing & making hole along with fixing arrangement etc. complete.	Sqm.	200	Yes	
9.09	P/L C.C. 1:2:4, 3" thick round the C.I. pipe 100 mm nominal bore in horizontal stacks.	RM	100	Yes	
9.10	Providing and fixing of pastel colour vitreous china Wall hung water closet (European type W.C. pan - Cascade / Constellation model) with seat and lid & flushing cistern Parryware / Hindware / Cera with all fittings and fixtures complete including cutting	each	20	Yes	
9.11	Providing and fixing of pastel colour vitreous china wash basin (under counter) oval type size 550x400 with C.I. Brackets painted white, C.P. brass chain with rubber plug, 32 mm C.P. brass waste of standard pattern, 32 mm diameter C.P. bottle trap make	each	30	Yes	
9.12	Providing and fixing white vitreous china flat back half stall urinal of 580x380x350mm with white PVC automatic flushing cistern, Parryware / Hindware / Seabird / Orient (Coral) with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 liter P.V.C. automatic flushing cistern.	each	30	Yes	
9.13	Extra for using pastel colour half stall urinal of 580x380x350mm instead of white half stall urinal of 580x380x350mm	each	30	Yes	
9.14	Extra for using infrared sensor system of AOS or equivalent instead of white white PVC automatic flushing cistern for Urinals	each	30	Yes	
9.15	Providing and fixing of pastel colour vitreous china Division Plate of Parryware / Hindware / Cera with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :	each	15	Yes	
9.16	Fixing C.P. brass fitting in toilet with extension pc., caps, CP pipe & nut - bolt, washer etc. complete as per following detail :- Make of sanitary ware "PARKO - Classic (CROME)"				
i.	Concealed stopcock with sliding cap (Cate No. 1516)	each	20	Yes	
ii.	15 mm diameter small body bib cock	each	35	Yes	
iii.	Basin inlet connection with 15" long pipe (Cat No. 1519)	each	50	Yes	

BILL OF QUANTITY					
(C) Renovation of Toilets of 5 floors of Admn. Block		5			
Sl. No.	DESCRIPTION	UNIT	Qty for 5 floor	Vendor Compliance	Vendor Remarks
iv.	Single lever basin mixer (Cate No. 2100)	each	30	Yes	
v.	Paper holder (Cate No. 1553)	each	20	Yes	
vi.	Soap dish	each	30	Yes	
vii.	Towel ring	each	20	Yes	
viii.	C. P. trap jali	each	50	Yes	
ix.	Flange (Cate No. 1581)	each	85	Yes	
10.00	ELECTRICAL WORK				
10.01	Providing and fixing surface/concealed type installation of 25mm dia PVC conduit over concrete slab, brick-wall & false-ceiling includes joining of new installation with existing system as required and directed by the Engineer - in - charge, including cost of supply.	RM	250	Yes	
10.02	Supply, Drawing, testing & commissioning of Copper Single core, PVC Insulated , 600V Grade, ISI marked Kalinga Cable or equivalent of following sizes of cables in existing concealed / surface conduit as approved by Engineer - in - charge				
i.	a) 3x1.5 mm ² single core copper conductor PVC insulated cable	RM	1,000	Yes	
ii.	b) 3x2.5 mm ² single core copper conductor PVC insulated cable	RM	125	Yes	
iii.	c) 3x4.0 mm ² single core copper conductor PVC insulated cable	RM	75	Yes	
10.03	Providing and fixing M.S. box & Plate of 'North West' / Anchor Roma make				
i.	2 way	Each	10	Yes	
ii.	4 way	Each	60	Yes	
10.04	Providing and fixing Switches & Sockets, of ' North west ' make.			Yes	
i.	i. Switch 6A One way	Each	140	Yes	
ii.	ii. Socket 6A - 3+2 Pin (Shuttered)	Each	40	Yes	
iii.	iii. Switch 16A One way	Each	10	Yes	
iv.	iv. Socket 16A & 6A - 6 Pin (Shuttered)	Each	10	Yes	
10.05	Supply, assembling, installation, testing & commissioning of following fixtures in toilets.				
i.	Providing & fixing of fixture of Philips make complete set of size 600 x 600mm mirror optics of 3x36 W CFL tubes etc. complete & as per approved drawings, specification and direction of the Engineer-in-Charge.	Each	35	Yes	
ii.	Providing and fixing recessed type Light Fitting having properties of anti glair & anti noise with Electronic choke, Compact Fluorescent Lamp etc. Wipro or equivalent - Ceiling/Wall mounted lights (Down light spot) as approved by the Engineer-in-Charge.	Each	20	Yes	
iii.	Providing and fixing exhaust Fan - 12" dia of Crompton/GEC or equivalent the Engineer-in-Charge.	Each	20	Yes	
GRAND TOTAL OF Sl. 1 TO 10 (Inclusive of all taxes as applicable on works contract)					
Percentage above / Percentage below on the Grand Total Amount =					