

BILL OF QUANTITIES FOR ADDITION, ALTERATION & RENOVATION OF BACHELOR FLAT [GROUND & FIRST FLOOR] AT NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA. (FOR 3 BLOCKS.)						
SECTION-A, CIVIL WORKS						
Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
1	Demolishing brick work including stacking of serviceable materials and disposal of unserviceable materials within 50mt lead.in all floor level. Care should be taken in case dismentling of load bearing Brick wall : Adjustable steel props supported to the roof slab before/ at the time of dismentling of the total wall and steel joists inserted then props removed after insertion of steel joist.	30	Cum			
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50m lead in all floor level.	450	Sqm			
3	Demolishing R.C.C. work (Lintel, RCC shelves, kitchen platform etc) including stacking of steel bars and disposal of unserviceable material within 50m lead.	12	Cum			
4	Dismantling of Terrace with grading plaster from roof slab & chajja and removal of unserviceable material with in 50mtr lead.in all floor level	1800	Sqm			
5	Taking out doors, windows and clerestory windows shutter including chowkhats/ frame , architrave, holdfasts etc. complete and stacking within 50m lead of area 3 sqm and below.	21	Each			
6	Taking out fixed glazed ventilators including holdfasts, frames etc. complete and stacking within 50m lead of area 3 sqm and below.	15	Each			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
7	Taking out fixed glazed ventilators including holdfasts, frames etc. complete and stacking within 50m lead of area 3 sqm above.	6	Each			
8	Taking out of existing MS grill from window & stacking the same within 50mt lead making good the damages	45	Sqm			
9	Dismantling of existing AS flooring & disposal of debris within 50mt lead making good the damages	600	Sqm			
10	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes, lead at site within 50m lead. Pipes upto 200mm dia.	200	Mtr			
11	Scrapping old cement paints with scrapper in all floors at all heights, sand papering, washing with soap or soda water and applying cement putty and primer as per requirement wherever necessary and finally applying two coats of weather coat painting with 100% acrylic emulsion paints exterior grade (1st. quality) of approved shade over a coat of wall priming in all floors and all height including cleaning the surface by mechanical means and applying putty wherever necessary including cost, conveyance and taxes of all materials and cost of all labour, scaffolding, sundries and T&P etc. required for the work complete as directed by the Engineer in charge.	4200	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
12	Scrapping old paints with scrapper in all floors at all heights, sand papering, washing with soap or soda water and applying cement primer as per requirement wherever necessary and finally applying two coats of acrylic distemper (emulsion paints) interior grade (1st. quality) of approved shade over a coat of wall priming in all floors and all height including cleaning the surface by mechanical means applying putty wherever necessary including cost, conveyance and taxes of all materials and cost of all labour, scaffolding, sundries and T&P etc. required for the work complete as directed by the Engineer in charge.	5400	Sqm			
13	Applying two coats of acrylic distemper (emulsion paints) interior grade (1st. quality) of approved shade over a coat of wall priming in all floors and all height including cleaning the surface by mechanical means applying putty wherever necessary including cost, conveyance and taxes of all materials and cost of all labour, scaffolding, sundries and T&P etc. required for the work complete as directed by the Engineer in charge.	1050	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
14	Applying two coats of weather coat painting with 100% acrylic emulsion paints exterior grade (1st. quality) of approved shade over a coat of wall priming in all floors and all height including cleaning the surface by mechanical means and applying putty (exterior grade) wherever necessary including cost, conveyance and taxes of all materials and cost of all labour, scaffolding, sundries and T&P etc. required for the work complete as directed by the Engineer in charge.	750	Sqm			
15	Earth work in excavation in foundation trenches in hard soils within initial lift 1.50 mt including breaking clods, rough dressing to the sides of trench, getting out the excavated soil & disposal of surplus excavated soil in layers not exceeding 0.20 mt within 50mtr of lead including cost of dewatering, shoring, labour, T & P, tax etc.complete in all respect as per the direction of the Engineer .-in-charge.	90	Cum			
16	Back Filling by available excavated earth in foundation including ramming after watering for compacting laying in layers not exceeding 20 cm including cost of labour, T&P etc. to complete the work in all respect as per the direction of the Engineer .-in-charge.	60	Cum			
17	Filling the foundation & plinth with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer .-in-charge.	15	Cum			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
18	Providing and Laying of Plain Cement Concrete of proportion (1 cement : 4 coarse sand: 8 graded metal 40mm down size) including mixing by mechanical mixer, laying in position, compacting,curing etc. including cost of all materials, labour, lead, royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	15	Cum			
19	Providing & constructing Brick masonry using Locally available K.B. bricks of size (23cm x 12cm x 8cm) with tolerance +/-8% having crushing strength not less than 55Kg/sqcm in cement sand mortar (1cement: 6 coarse sand) in foundation & plinth including cost of all materials, labour, testing charges of material, lead, royalty, curing,pointing, T&P etc. complete in all respect as per the direction of Engineer .-in-charge	42	Cum			
20	Cutting, Straightening, bending, binding cold drawn Tor Steel of High Yield Strength Deformed / TMT bars confirming to IS-1786 (Grade Fe 415/ 500) of approved manufacture (TATA-TISCON / VIZAG / SAIL), tying Tor steel in Grill and placing in position as per the requirement for R.C.C. work shown in structural drawing including cost of steel and binding wire (20 gauge black anealed) at every intersection, testing charges of steel, labour, lead,royalty, tax etc. complete in all respect as per the direction of the Engineer.-in-charge. (weight shall be calculated as per standard table & wastage shall not be accounted) in all floors	1.2	MT			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
21	Providing & constructing Brick masonry using Locally available K.B. bricks of size (23 cm x 12 cm x 8 cm) with tolerance +/- 8% having crushing strength not less than 55 Kg/sqcm in cement sand mortar (1 cement : 6 coarse sand) in superstructure including cost of all materials, testing charges of material, labour, lead, royalty, curing, pointing, scaffolding, T&P, tax etc. complete in all respect as per the direction of Engineer . -in-charge. in all floors,	48	Cum			
22	Providing & constructing half brick masonry for partition wall using locally available K.B. bricks of (23cmx 12cm x 8cm) +/- 8% size using Cement sand Mortar in proporation (1cement: 4 coarse sand) in superstructure crushing strength of bricks not less than 55kg/sqcm, hoop iron (2nos 6mm dia MS bar) at an interval of three layer cost includes all materials & testing charges, labour, lead,royalty, steel in every 3rd course, scaffolding , T&P, tax, curing etc. complete in all respects as per direction of Engineer / .-in-charge. in all floors	165	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
23	Providing & Laying Reinforced Cement Concrete in proportion (1 cement : 1 .5 coarse sand : 3 graded coarse aggregates 20mm down graded / nominal size) in foundation, plinth and superstructure including cost of all materials, testing charges of material,labour, lead, royalty,tax, scaffolding, mixing by mechanical mixer, hoisting, laying, compacting by needle & plate vibrator as required, concreting by suitable means and curing etc. complete in all respects as per the direction of Engineer / -in-charge. (excluding cost of steel, centering & shuttering). in all floors, The surface of concrete should have finished surface with out undulation & honeycomb. The unfinished surface should be plastered with 6mm thk cement mortar (1:3) and no extra payment will be paid for plastering, chisseling etc.	48	Cum			
24	Rigid & smooth centering & shuttering of steel / marine plywood confirming to IS- 710/ 76 of Century/ Green ply or any other approved brand for all type R.C.C. Works including strutting, proping, bracing, staging, fitting, fixing,striking etc. cost includes materials, labour, T&P, tax, removal of form after reach the required strength / casting,complete in all respects as per direction of Engineer-in-charge .cost including providing & laying plastic sheet to make water tight shuttering & smooth surface .(only area of contact to concrete shall be measured for payment) in all floors	360	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
25	Providing and laying approved type 20mm thick Kota stone flooring & dado with 20 mm thick 1:3 (1 cement : 3 sand) mortar with neat cement slurry mixed with pigments to match the shade of the tiles including filling the joint scrubbing and polishing complete including cost of all materials and labour and instruction of Engineer-in-charge. (in Kitchens, common corridore, stair case steps and landling)	600	Sqm.			
26	Supplying, fixing and laying anti-skid ceramic tiles in all floors at all heights of (300mm x 300mm) size of approved make to floor surface conforming to drawings and designs set in cement mortar of proportion 1:3 to proper line and plumb including cutting to required size and shape and fixing at corners splays and chambers etc. and the joints are to be properly finished with white cement with required pigment and curing complete with cost of all labour, materials, taxes, T&P, conveyance etc. as directed by the Engineer / Architect.	120	Sqm.			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
27	Providing & fixing ceramic glazed tile of approved size, make, shade & quality to dado of toilet over a base course of cement mortar (1 cement : 3 coarse sand) / as per manufacturer's specification with white cement grouting with mixed matched pigment of approved manufacture etc. as specified & directed laid to required slope, cutting in required size to corners cost includes all labours, materials, testing charges, T & P, lead, royalty, tax, curing etc. complete in all respects as per direction of Engineer / .-in-charge.	250	Sqm.			
28	Providing & Laying minimum 18mm (3/4") thick Green Marble stone with machine edge mouding (half round) in kitchen platform (over RCC slab) & sills of window in all floors with minimum cement mortar 15mm thick of proportion (1 cement : 3 coarse sand). The joints shall be filled with cement slurry mixed with required pigment to match the colour of granite including polishing to the marble, all labour, material, tax, lead, T&P ,curing etc. Complete in all respects as per direction of Engineer / .-in-charge.	120	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
29	Providing 15mm thick cement plaster in cement sand mortar in proportion (1cement : 6 coarse sand) over Brick masonry surface after racking out of joints, fixing wiremesh 6" wide in case of Concrete & Brick work joints such that half on each surface fixed by help of nails cost includes of all materials, labour,lead, royalty, T & P, scaffolding, curing, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.in all floors	240	Sqm.			
30	Providing 12mm thick cement plaster in cement sand mortar in proportion (1cement : 4 coarse sand) over concrete surface such as Beam, Roof slab, columns, chajja etc. includes of all materials, labour,lead, royalty, T & P, scaffolding, curing, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.in all floors	120	Sqm.			
31	Repair to plaster of thickness 12mm to 20mm in patches of area 2.5 sq meter and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50mtr lead. with cement mortar 1:4 (1 cement : 4 coarse sand)	450	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
32	Supplying & Fixing window frame / chowkath of cross section (100mm x 75mm) well seasoned sal wood in existing opening including embedding chowkath in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size), taking out existing chowkath if required, painting two coats of coal tar to sides of chowkath and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 metres lead as per the direction of Engineer in charge.	1.5	Cum			
33	Supplying & Fixing of (50mm x 50mm x 6mm) size MS angle as door frame with necessary hold fast, fixing in position with 15cm x 15cm x 15cm including making holes 3 nos in each side of frame required positions and fixing the frame in position. Filling the holes with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 aggregates of 20mm nominal size), making good the damages to walls & floor, painting with metal primer & synthetic enamel paint 2 coats to get an even shade, fabrication charges,welding rod, fixing in proper level cost includes all material,labour, tax, lead,T&P etc. complete in all respects.Cost also includes fabrication of 3nos hinges with the frame to hold down the shutter.	300	Kg			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
34	Repairing the existing door shutter includes removal of door shutter from the existing MS / wooden frame, necessary repairing to the shutter including change of wooden members (rails, styles, panels) if required to appropriate / required size to match the existing shutter, wooden cleats, hinges, fabrication charge to fix the door shutter with MS angle frame/ wood frame as required, cost includes all material, labour, tax, lead, scaffolding charge, T&P, making good the damages etc. complete in all respects as per the direction of Engineer-in -charge.	45	Sqm			
35	Repairing the existing window shutter includes removal of shutter from the existing wood frame, necessary repairing to the shutter including change of wooden members (rails, styles, panels) required size to match the existing shutter, wooden cleats, hinges, fixing the shutter with wood frame as required, cost includes all material, labour, tax, lead, scaffolding charge, T&P, making good the damages etc. complete in all respects as per the direction of Engineer-in -charge.	75	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
36	Providing and fixing panelled shutters for doors made of locally available well seasoned secondary hard wood as per detailed drawings (single leaf) with panel 12mm thick BWR grade ply of approved make including stainless steel aldrop, stainless steel tower bolt 250mm long -1no, stainless steel handle-2no, door stopper-1no, stainless steel butt hinges- 4nos 100mm size with necessary screw including panel made of with secondary hard wood well seasoned complete in all respects.	120	Sqm			
37	Providing and fixing panelled shutters for windows made of locally available well seasoned secondary hard wood as per detailed drawings with panel 9mm thick BWR grade ply of approved make including stainless steel tower bolt 100mm long - 2no per shutter ,stainless steel handle (100mm) - 1no per shutter , stainless steel butt hinges- 3nos- 75mm size per shutter with necessary screw including panel made of with secondary hard wood well seasoned complete in all respects.	120	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
38	Providing, fitting and fixing steel casement windows & ventilators with built in window grills made out of M.S. flat/square bars conforming to IS 1038 with pressed steel galvanised fitting viz two points handles 300mm long peg stay etc. as required with extruded side hung type coupling members glazing bars, GI handles, plates washers bars and fixing of 4mm thick pin head glass panes cut to required sizes with glazing clips, cleaning the glass with cleaning solvent and placing the window in proper position in wall with cement concrete (1:3:6) using granite chips of 12mm down as per the approved design and drawing including cost of all labour, materials, hold fasts, taxes and conveyance to the site of work as per the direction of the Engineer-in Charge.	12	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
39	<p>Supplying & Fixing Factory made FRP (alternately called GRP) doorframe of size 75mmx100mm fabricated using E-glass.Each Chopped Strand Mat (CSM) U.V stabilised Inophalic Gel coat and impregnated with Inophalic resin. The running thickness of the GRP skins shall not be less than 2.00mm. The doorframe consists of four segments, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The GRP frame shall be provided with wooden reinforcement on six locations for high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/plaster of paris with fibre reinforcement, Six numbers of 260mm x 25mm x 5mm size 'S' shaped M.S flat hold fast shall be provided with the frame. The material and process for manufacturing the doorframes shall conform to RV-TIFAC composites Design Centre's standards and specifications.</p>					
	<p>The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/ Mahogany/ Teak wood/sand stone/ Champagne/ Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge</p>	90	Rmt			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
40	<p>Supplying & Fixing Factory made single leaf rigid FRP(alternately called GRP) sandwich composite door shutter of 32mm thick laminated with two GRP skins with wood grain finish fabricated using UV-stabilised Isophthalic Gel coat and one layer of 450 gsm E-glass Chopped Strand Mat (CSM) impregnated with orthophthalic meter polyester resin. The thickness of the skins shall not be less than 1.50mm Expanded Polystyrone (EPS) structural foam panel of 29mm thickness and a density of 20kg/cu.mtr shall be used as core material. Wooden reinforcements made of seasoned sal wood block of cross section not less than 28mmx32mm and also necessary sal wood reinforcements for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material, the sal wood reinforcements and the skins.</p>					
	<p>The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters tested in conformation to IS: 4020-1998. The finish of door shutter will be plain colour.</p>	27	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
41	Providing and applying Two coats of synthetic enamel paint of approved make and shade form ASIAN PAINTS -APCOLITE PREMIUM GLOSS ENAMEL / BERGER PAINTS - LUXOL HI GLOSS SYNTHETIC ENEMAL / SUPER PAINTS / ICI DULUX / NEROLAC PAINTS" over new surfaces /existing painted wooden/ steel surfaces minor repairs including sealing of cracks with suitable putty of approved brand, scaffolding, cleaning of dirt, removal of oil etc, preparation of surfaces wherever required including sand papering, cleaning etc. complete as directed by the Engineer. Item includes cost of all materials, transportation, labour, etc. in all floors.	1350	Sqm			
42	Cleaning the roof and chajja with wire brush and water jet and repairing pot holes with cement mortar (1:4) with sika latex or equivalent including providing and laying two coats of sika latex or equivalent with cement on top surface of roof @150gm/sqm per coat. Making hoppers in the junction of parapet and roof slab, wall and chajja in cement mortar (1:4).	1650	Sqm			
43	Providing & laying screed concrete on the top of the roof in 1:2:4 (1 cement : 2 sand : 4 stone chips 12.5mm down gauge) with waterproofing admixture plasto crete plus @ 100gm/ bag of cement confirming to IS-2645 with slope and necessary hatching as per direction of Engineer in charge average thickness 75mm .	1350	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
44	Providing & Making Plinth Protection all round the building with bricks of class designation 55 laid on edge in cement mortar 1:6 (1 cement : 6 coarse sand) with 12mm thick bed of cement mortar 1:6 (1 cement: 6 coarse sand) over 75mm thick bed of dry brick aggregates 40mm nominal size well rammed & consolidated & grouted with fine sand & the top of the bricks pointed with cement mortar 1:3 (1 cement : 3 fine sand) including cost of all materials, labour, lead, royalty, tax, T&P , curing etc.complete in all respects as per direction of Engineer /. in charge.	450	Sqm			
45	Repairing of existing collapsible gate which includes taking out the existing collapsible gate with hold fast, repairing the collapsible gate with vertical channel , flat iron diagonals, top & bottom rail , steel pully with bolts,nut, locking arrangement, spooer, handles as required with fabrication charge, fixing the same & making good the damages to walls/floor, cost includes all material, labour, tax,lead, T&P etc. complete in all respects.	21	Sqm			
46	Repairing of existing MS grill which includes taking out the existing MS grills with hold fast, repairing the grill with MS flat/ square bar of required size as per the existing grill condition as required with fabrication charge, fixing the MS grill with necessary screws / holdfast & making good the damages caused to walls/floor, cost includes all material, labour, tax,lead, T&P etc. complete in all respects.	90	Sqm			

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47	Providing & Fixing MS grill made of MS flat/ square bar of required size as per the detailed drawings with fabrication charge, fixing the MS grill with necessary screws / holdfast & making good the damages caused to walls/floor, making holes of size (15cm x 15cm x15cm) & filled up with plain cement concrete (1:2:4) after fixing the grill in position ,cost includes all material, labour, tax,lead, T&P etc. complete in all respects.	75	Sqm			
48	Supplying and Fixing clear glass panes of 5.5mm thick glass (MODI FLOAT/ ASAHI/SAINT GOBAIN) with metal sash putty, glazing clips, removal of steel panels, breaked glass, painting the putty, necessary fabrication if required, cost includes all material,cutting glass in required size , labour, tax,lead,T&P, scaffolding etc.	90	Sqm			
49	Providing anchoring for 8mm / 10mm dia steel bars (FISHER / HILTI) including drilling, necessary chemical treatment as per manufacturer' specification, complete in all respects, including scaffolding,T&P, material, labour, making good the damages.	570	Each			
50	Providing & applying Nitobond ^(R) EP (a product of Fosroc Chemicals (India) Pvt. Ltd.) or Epoxy bonding agent (2 part solvent free epoxy based bonding agent as jointing material as a bonding agent for jointing of new & old concrete of roof slab / concrete member as per manufacture's specification as construction joint cost includes all material,labour , T&P, Scaffolding charges etc. complete	30	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
51	Providing 40mm thick Artificial Stone Flooring as per proper level in cement concrete of proportion of (1cement:2 coarse sand :4 graded coarse aggregates of 12.5mm nominal size) with a floating coat of neat cement punning, fixing of glass strip in the joints of new & old flooring cost including making good the damages, materials,labour, tax, T&P, lead,curing complete as per the direction of Engineer.-in-charge. in all floors	600	Sqm			
	TOTAL					
	carried over to general summary					

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
SECTION-B, WATER SUPPLY & SANITARY WORK						
1	Removal of existing Orissa Pan, flushing cistern and all existing necessary fixtures, pipes etc. Supplying and Fixing Indin type water closet I.S.I. Marked (confirming to IS : 7231) of (Parryware/Hindware/Cera) make with integral foot rest white vitrious ware with P / S trap (C I) with 10.0 ltr capacity low level flushing cistern (Parryware slimline) in white plastic with all internal fitting. etc. with all fittings & fixtures complete including making good the damages including cost of all materials, labour,tax, T&P, lead,lead joint, royalty etc.complete in all respects as per direction of Engineer. in charge. White vitreous china orissa pattern WC pan size (580mm x 440mm) with integral type footrest, 32mm dia flush pipe	9	No			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
2	Removal of existing Pan, Flushing cistern with necessary fixtures, pipes etc. Supplying and Fixing white vitreous china pedestal type water closet (European type WC pan) confirming to IS :7231 with lid & seat I.S.I. marked of (Parryware/ Hindware/Cera) with P / S trap (C.I.), PVC flush bend 40mm, overflow arrangement with specials of standard make and mosquito proof coupling of approved design, 10.0 ltr capacity low level flushing cistern (Parryware/Hindware) in white plastic with manual controlled device (IS :7231) all internal fitting. etc. with all fittings & fixtures complete including cutting & making good the damages the walls & floor including cost of all materials, labour,tax, T&P, lead, royalty etc.complete in all respects as per direction of Engineer. in charge.	9	No			
3	Providing and fixing wash basin size (550 x 400mm) white colour of Johnson Peddar code - 8316 as per drawing complete with all accessories like waste pipe, necessary piping, waste pipe, brass coupling, PVC connecting pipe from stop cock to pillar cock etc complete as directed.	18	No			

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4	Providing & fixing salem stainless steel kitchen sink A ISI 304 (18/8) (Make- Nirali / Parryware) with drainboard 460mm x 915mm x bowl depth 178mm (IS: 13983) with CI bracket and stainless steel plug 40mm including painting of fittings & bracket, waste water pipe regular swinging spout etc. cutting & making good the damages to walls and floor wherever required including cost of all materials, labour, lead, royalty,tax,T&P etc.complete in all respects as per direction of Engineer. in charge.	18	No			
5	Providing and fixing PVC nahani floor trap with CP jalli 100 /150mm dia on top of the trap complete as directed	36	No			
6	Providing and fixing CP Towel Rail (24") - Jaquar Continental CAT No. 1111 complete as directed.	18	No			
7	Providing and fixing CP Towel Ring - Jaquar Continental CAT No. 1121 complete as directed.	36	No			
8	Providing and fixing Angular Stop Cock - Jaquar Continental CAT No. 053 complete as directed.	54	No			
9	a) Providing and fixing CP Bib Cock - Jaquar Continental CAT No. 037 complete as directed.	36	No			
	b) Providing and fixing CP Bib Cock (long body) - Jaquar Continental complete as directed.	18	No			
10	Providing and fixing CP Pillar Cock - Jaquar Continental CAT No. 011 complete as directed.	18	No			
11	Providing and fixing Double Coat Hook - Jaquar Continental CAT No. 1161complete as directed.	36	No			
12	Providing and fixing soap dish - Jaquar Continental CAT No. 1131complete as directed.	36	No			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
13	Providing & Fixing overhead shower (ABS chrome plated) with rubit cleaning system of Jaquar continental. (Cat- 491)	18	No			
14	All pipe lines shall be concealed in the wall/floor. All G.I. pipes shall be TATA make & medium quality (Class 'B') and fitting must be 'R' brand heavy quality and these shall be supplied as per specification . All G.I. pipes shall be laid as per specification and drawing . The rates quoted shall include cost of cutting holes and chasing through floors and walls and repairing the same and necessary scaffolding charges etc. as may be necessary. All G.I.pipes wherever exposed to surface shall be painted with two coats of synthetic enamel paint over a coat of primer. The rate therefore should include expenditure on this accounts.The rate quoted shall include for cutting the pipes to required length, making thread, coast of hangers and clamps earth work wherever necessary . The testing of the pipe lines after erection as per specification etc. complete in all respect . No extra payment shall be entertained on above accounts .All brass chromium plated fittings should be of best quality as mentioned in the specification .					
	G.I. Pipes (TATA) for following dia with all necessary G.I. Fittings such as bends, tees, elbows, reducers, sockets, caps, clamps, plugs,union etc.& making good the damages as per drawing including cost of all materials, labour, lead, royalty,tax,T&P etc.complete in all respects as per direction of Engineer. in charge.					

No of corrections-
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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
a	25mm	75	Rmt.			
b	20mm	105	Rmt.			
c	15mm	105	Rmt.			
15	Concealing the existing GI pipes inside wall surface including cutting grooves in the the wall, relaying the pipe with necessary clamps and fittings required, plastering the groove in cement mortar (1:4), necessary scaffolding, making good the damages caused, cost incudes dismentle of existing pipe & concealing the same. Care should be taken at the time of dismentling that the pipe should not be damaged due to mishandle. for GI pipes 15mm to 20mm	150	Rmt.			
16	Removal of existing C.I. pipe 150mm / 100mm dia for soil waste & vent pipe including lead joint, all fittings and specials such as Bends, junctions, offsets, access pieces (plain or door) & vent cowl and making good the damages to walls / floors / others caused complete.	145	Rmt.			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
17	Providing, fixing, jointing, testing and commissioning C.I. pipe (heavy duty type) for soil, waste & vent installation conforming to IS:1729 cut to required lengths including all necessary fittings and specials such as Bends, junctions, offsets, access pieces (plain or door) & vent cowl. Fixing at wall/ceiling level supported by steel clamps & hangers etc. painting of pipe as per IS codes in case of exposed pipe). Making proper connection with refined pig lead joint of required depth as per BIS / manufacturer. Cutting, chases/holes in floors / walls / slab and making good the same after pipes have been duly laid and testing complete.					
a)	150 mm dia	120	Rmt.			
b)	100 mm dia	90	Rmt.			
18	Providing and laying 1:2:4 cement concrete all round the pipe including bed concrete for the following M.S./C.I./C.I. class L.A. pipes and specials below floor including necessary shuttering and necessary steel reinforcement etc. complete as required.					
a)	For 150 mm dia pipe, 150 mm thick bed conc. and 150 mm thick alround.	60	Rmt.			
b)	For 100 mm dia pipe, 100 mm thick bed conc. and 100 mm thick alround.	30	Rmt.			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
19	Painting of Exposed C.I. pipes and fittings (after installation) of following sizes with two coats of synthetic enamel paint of approved shade over a coat of primer, all as per pipe colour code including painting of legends with direction arrows are per the approval of consultant. for both old & new pipes.					
a)	100mm dia	90	Mtr			
b)	150mm dia	120	Mtr			
20	Providing, cutting & chasing in walls & floor for 25 mm dia to 50 mm dia waste pipes & fittings. And making good the same by using 1:1 cement mortar.	240	Mtr			
21	Providing & fixing in position CI full bore P / S trap with 50 mm water seal (IS:1729) of following sizes for the embedded areas. Making proper connection with refined pig lead joints, cutting chase / hole in floors /slabs and bringing the same in proper condition and shape after placing the trap in right position complete as required.100mm inlet & 100mm outlet.	18	No			
22	Providing and fixing thick CP brass hinged grating (cockorach trap) with rim of approved design including setting floor with cement mortar (as per approved by Consultant's design).100mm dia	18	No			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
23	Providing, laying, jointing and testing in position the following glazed stone ware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) laid below ground level in trenches upto required depth including excavation in all kind of soil (hard / soft), dewatering, refilling, watering, ramming & removing the surplus excavated material and making good the same complete as required.					
a)	150mm dia	90	Mtr			
b)	100mm dia	50	Mtr			
24	Providing and laying 150 mm thick cement concrete 1:4:8 (1 cement:4 fine sand:8 graded stone aggregate 40mm nominal size) around pipes including 150 mm thick bed concrete as per approved design.					
a)	150mm dia	90	Mtr			
b)	100mm dia	50	Mtr			
25	Dismantling of existing inspection chamber with all brick work, bottom concrete, top RCC slab with reinforcement, taking out CI / RCC manhole cover etc. refilling the pit with earth including ramming & compacting complete in all respects.					
		12	No			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
26	Providing, fixing, jointing, testing and commissioning HCI Rain water downtake pipe (100mm dia) conforming to IS:1729 cut to required lengths including all necessary fittings and required specials. Fixing at wall/ceiling level supported by steel clamps & hangers etc. painting of pipe as per IS codes in case of exposed pipe). Making proper connection with refined pig lead joint of required depth as per BIS / manufacturer. Cutting, chases / holes in floors / walls / slab and making good the same after pipes have been duly laid and testing complete.	360	Rmt.			
27	Providing & Constructing Inspection pit/ chamber of internal size (0.75mt x 0.75 mt x 0.90 mt) in 230mm thick brick wall using locally available KB bricks strength not less than 55 Kg/sqcm & cement sand mortar in proportion (1 cement : 6 coarse sand) over 150mm thick bed of plain cement concrete in proportion (1cement: 4 coarse sand: 8 graded stone aggregates of 40mm down size),inside plastering of 20mm thick in cement mortar of proportion of (1cement : 3 coarse sand) including neat cement punning, top slab of 12cm thick RCC slab in proportion (1cement: 1.5 coarse sand : 3 graded stone aggregates 20mm nominal size)					

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
	forming a channel in floor & supplying, fixing 455mm dia -8mm thick cast iron water seal type man hole cover & frame (weight 52 kg) set in 10cm thick R.C.C top slab cost includes earth work in excavation, back filling, Tor steel for RCC work, shuttering & centering for RCC work, as per detailed working drawing including cost of all materials, labour, lead,tax,curing, royalty etc.complete in all respects as per direction of Engineer in charge.	12	No.			
	TOTAL					
	carried over to general summary					

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
	SECTION-C, INTERNAL CC ROAD.					
1	Dismantling the existing cement concrete road by means of manually or mechanical concrete breaker including disposal of debris within 100mt initial lead, cost includes T & P, labour etc. all complete.	25	Cum			
2	Preparation of subgrade (average 22.5cm depth) including dressing to camber, levelling, preparing sub grade & consolidating with road roller including making good the undulations to proper camber, in all kinds of soil, allow for necessary earth work in filling as required & spread & level surplus earth within 50mtr lead the site as per direction of Engineer in charge.	400	Sqm			
3	Providing and Laying of sand including levelling by proper camber, compacting by watering including cost of all materials, labour, lead, royalty, T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	45	Cum			
4	Providing Dummy Groove joints @ 5mtr c/c interval including cost of material (premoulded joint filler 20mm thick, painting with primer), labour for fixing etc. complete.	90	Mtr			
5	Providing and Laying of Plain Cement Concrete of proportion (1 cement: 4 coarse sand: 8 graded metal 40mm down size hard Black Granite Metal) of approved quality including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials, labour, lead, royalty, T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	45	Cum			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
6	Providing 100mm thick Reinforced Cement Concrete in proportion (1 cement: 1 1/2 coarse sand : 3 graded coarse aggregates 20mm nominal size) including cost of side shuttering,all materials & testing charges, labour,lead,royalty,tax, mixing by mechanical mixer, hoisting, laying, compacting by needle & plate vibrator as required , concreting by suitable means and watering for curing ,forming rough texture top & filling the same by bitumen mixed sand in proportion [1:2] etc. complete in all respects as per the direction of Engineer.-in-charge. (excluding cost of Steel).	45	Cum			
7	Extra for providing and mixing hardcrete of approved quality as per manufacture's specification	360	Ltr			
8	Cutting, Straightening, bending, binding cold drawn Tor Steel of High Yield Strength Deformed / TMT bars confirming to IS-1786 (Grade Fe 415/ 500) of approved manufacture (TATA-TISCON / VIZAG / SAIL), tying Tor steel in Grill and placing in position as per the requirement for R.C.C. work including cost of steel and binding wire (20 gauge black anealed) at every intersection,cover block, testing charges of steel, labour, lead,royalty, tax etc. complete in all respect as per the direction of the Engineer.-in-charge. (weight shall be calculated as per standard table & wastage shall not be accounted) 8mm # @ 150mm c/c both ways in single row.	2	MT.			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
9	Supplying & fixing kerb stone in Cement Concrete in proportion (1 cement : 1.5 coarse sand :3 graded stone aggregate 20mm nominal size) chisel dressed on top and side including fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and pointing with cement mortar 1:4 (1 cement : 4 coarse sand) including making drainage opening where required including necessary excavation & filling side treanches etc. including cost of all materials, labour, tax, lead, T&P etc. complete in all respects as per the direction of Engineer.-in-charge.Size of kerb stone- (495 x 300x 200mm)	250	Mtr			
10	Providing and Laying of external cement concrete paving tile of (ULTRA / EUROCON / EQUIVALENT) of approved pattern over base course of average 20mm thick cement mortar (1 cement : 3 coarse sand) including grouting the joints, laying in position, wastage,curing etc. including cost of all materials, labour, lead, royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	300	Sqm			
	TOTAL					
	carried over to general summary					

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
	SECTION-D, INTERNAL DRAIN					
1	Earth work in excavation in foundation trenches in all kinds of soils within initial lift 1.50 mt including breaking clods, rough dressing to the sides of trench , getting out the excavated soil & disposal of surplus excavated soil in layers not exceeding 0.20 mt within 50mtr of lead including cost of dewatering, shoring, labour, T & P, tax etc.complete in all respect as per the direction of the Engineer .-in-charge.	90.00	Cum			
2	Back Filling by available excavated earth including ramming after watering for compacting laying in layers not exceeding 20cm including cost of labour, T&P etc. to complete the work in all respect as per the direction of the Engineer .-in-charge.	15.00	Cum			
3	Filling the foundation with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer .-in-charge.	16.00	Cum			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
4	Providing and Laying of Plain Cement Concrete of proportion (1cement: 4 coarse sand: 8 graded metal 40mm down size) by volume in foundation & subfloor using Crusher Broken Hard Black Granite Metal of size 40 mm down of approved quality including mixing by mechanical mixer, laying in position, compacting, curing etc. including cost of all materials, labour, lead, royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	16.00	Cum			
5	Providing & constructing K.B. Brick masonry using Locally available K.B. bricks of size (23cm x 12cm x 8cm) with tolerance +/- 8% having crushing strength not less than 55Kg/sqcm in cement sand mortar (1cement: 6 coarse sand) in drain walls including cost of all materials & testing charges, labour, lead, royalty, curing, pointing, T&P, tax etc. complete in all respect as per the direction of Engineer . -in-charge	75.00	Cum			
6	Providing 15 mm thick cement plaster with neat cement punning in cement sand mortar in proporation (1 cement : 6 fine sand) over Brick. masonry surface after racking out of joints cost includes of all materials , labour,lead, royalty, T & P, scaffolding, curing, tax etc. complete in all respect as per the direction of Engineer / .-in -charge.	450.00	Sqm.			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
7	Providing & Laying Plain Cement Concrete (1cement: 1 1/ 2 coarse sand : 3 graded coarse aggregates of 12.5 mm nominal size) in inside of drain Crusher Broken Hard Granite chips of size 12.5mm down & coarse sand including cost of all materials, testing charges, labour, lead, royalty, scaffolding,tax, mixing by mechanical mixer, hoisting, laying, compacting by needle & plate vibrator as required, concreting by suitable means and watering for curing etc. complete in all respects as per the direction of Engineer .-in-charge.	4.00	Cum			

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
8	Providing & laying 75mm thk precast ,preured R.C.C. slab (1cement: 1 1/ 2coarse sand : 3 graded coarse aggregates 12.5 mm nominal size) as drain cover including finishing top & sides with cement plaster 6mm thick ,steel about 0.80% of concrete volume,shuttering cost of all materials, labour, lead,royalty, tax, scaffolding , mixing by mechanical mixer, hoisting, laying, compacting by needle & plate vibrator as required , fixing with cement mortar (1cement:4 fine sand) sealing the joints including pointing in cement mortar (1cement:2 sand) concreting by suitable means and watering for curing etc. complete in all respects as per the direction of Engineer.-in-charge.	150.00	Sqm			
	TOTAL					
	carried over to general summary					

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Sl. No.	Item Description.	Qty.	Unit.	Rate in figures	Rate in words	Amount
	GENERAL SUMMARY					
	SECTION-A, CIVIL WORK					
	SECTION-B, WATER SUPPLY & SANITARY WORK					
	SECTION-C, INTERNAL CC ROAD					
	SECTION-D, INTERNAL DRAIN					
	GRAND TOTAL					
	IN WORDS:-					

No of corrections-
 No of overwritings:-
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