

**BILL OF QUANTITIES FOR ADDITION, ALTERATION & RENOVATION OF LIBRARY BUILDING AT
NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA.**

Sl. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
SECTION-A, CIVIL WORKS						
1	Demolishing brick work including stacking of serviceable materials and disposal of unserviceable materials within 50m lead.	15	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.	50	Sqm			
3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50m lead.	5	Cum			
4	Dismantling of Terrace/ grading plaster/ tarfelt removal of unserviceable material with in 50mtr lead.	800	Sqm			
5	Dismantling doors, windows and clerestory windows shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50m lead of area 3 sqm and below.	7	Each			
6	Dismantling of existing MS grill in window & stacking the same within 50m lead making good the damages	15	Sqm			
7	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.	15	Cum			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
8	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.	7	Cum			
9	Providing and Laying of Plain Cement Concrete of proportion (1cement: 3coarse sand: 6 graded metal 40mm down size) by volume 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.	5	Cum			
10	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) by volume 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	10	Cum			

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
11	Providing & Laying Reinforced Cement Concrete in proportion (1cement : 1 1/2 coarse sand : 3 graded coarse aggregates) in foundation & plinth Crusher Broken Black Hard Granite chips of size 20mm down & coarse sand including cost of all materials, testing charges of material, labour, lead, royalty, 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).	5	Cum			
12	Rigid & Smooth Centering & Shuttering of steel / marine plywood confirming to IS- 710/ 76 of National/ Green ply or any other approved brand for R.C.C. Works including strutting, proping, bracing, staging, fitting, fixing,striking etc. cost includes all materials, labour, T&P, 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 foundation & plinth	55	Sqm			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
13	Cutting, Straightening, bending, binding cold drawn Tor Steel of High Yield Strength Deformed Bars confirming to IS-1786-1985 [Grade Fe 415]of approved quality & manufacture , tying Tor steel in Grill and placing in position as per the requirement for R.C.C. work shown in drawing including cost of steel and binding wire (20 gauge black anealed) at every intersection, material, 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					
		18	MT			
14	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 55 Kg/sqcm in cement sand mortar (1 cement : 6 coarse sand) by volume 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					
		135	Cum			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
15	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 proportion (1cement: 4 coarse sand) by volume for superstructure crushing strength of bricks not less than 55kg/sqcm in every course, hoop iron at an interval of four layer cost includes all materials & testing charges, labour, lead,royalty , scaffolding , T&P, tax, curing etc. complete in all respects as per direction of Engineer / .-in-charge. in all floors	15	Sqm			
16	Providing & Laying Reinforced Cement Concrete in proportion (1 cement: 1 1/2 coarse sand :3 graded coarse aggregates) by volume in superstructure using Crusher Broken Black Hard Granite chips of size 20mm down & silt free coarse sand 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 shold be plastered with 6mm thk cement mortar (1:3), No extra payment will be paid for plastering, chisseling etc.	125	Cum			

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
17	Rigid & Smooth Centering & Shuttering of steel / marine plywood confirming to IS- 710/ 76 of National/ Green ply or any other approved brand for 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 superstructure all floors					
a	Beams , Columns, fins & stair case	1100	Sqm			
b	Slab, Lintel, chajja etc	800	Sqm			
18	Providing and laying approved type 20mm thick Kota stone flooring & dado in stair case steps 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.	40	Sqm.			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
19	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.	30	Sqm.			
20	Providing & fixing ceramic glazed tile of approved size, make , shade & quality to dado of toilet & sills of windows over a base course of cement mortar (1cement : 3 coarse sand) / as per manufactures 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.	65	Sqm.			
21	Providing and laying floor tiles of approved make with VC shield jointless floor tile (Veilcraft shield technolgy) of sizes (496 mm x 496 mm), 10mm thickness, matt finish with water absorption less than 3% & strenght not less than 40N/sqmm ,of approved colour & pattern laid on average 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) complete in all respects , cost includes all material,labour,tax,lead, cutting,wastage , T&P etc.	450	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
22	Providing & Laying minimum 18mm thick black granite stone cladding 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 all labour, material, tax, lead, T&P ,curing etc. Complete in all respects as per direction of Engineer / .-in-charge.	55	Sqm			
23	Providing 15mm thick cement plaster in cement sand mortar in proportion (1cement:6 coarse sand) by volume over inside surface of the building after racking out of joints, roughening the concrete surface, filling porturated surface , fixing wiremesh in case of Concrete & Brick work joints such that half on each surace 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	600	Sqm.			
24	Providing 12 mm thick cement plaster in cement sand mortar in proportion (1cement:4 coarse sand) by volume over ceiling surface of roof ,soffit & sides of stair ,beams, chajja etc. after roughening the surface by proper chisseling ,surface preparation, filling porturated surface etc. 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-	750	Sqm.			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
25	Providing sand faced plaster 18 mm thick laid in two coats, base coat 12 mm thick with cement mortar 1:5 and finishing coat in cement mortar 1:6 to external surfaces including adding water proofing compound at 3 % by weight of cement used in base coat, making grooves, pattis, scaffolding, curing, etc. complete as per drawings and specifications including removing the existing plasters over wall at all height if required.	525	Sqm.			
26	Providing & fixing in position well dressed naturally well seasoned sal wood of finished cross section (65 x 125mm), rebated frame to door including 2 coats of hot bitumen applied to rear of frame in contact of masonry / concrete surface complete in all respects including 2 coats of synthetic enamel paint over 2 coat of wood primer both of approved brand & shade cost includes of all materials, labour,lead, royalty,T & P, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.(In all floors)	1	Cum			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
27	Providing & fixing in position 30 mm thick ISI marked factory made solid core block board flush door confirming to IS:2202, PT-1 [hot pressed] shutter of approved make & quality bounded with phenol formaldehyde synthetic resin, teak veneered on both faces 3mm ply veneering with vertical grains or cross bands, leaping around complete as specified with lamination of 1.50 mm thick of approved shade, make & as directed cost includes of all materials, labour, lead, royalty, T & P, tax, testing charges etc. complete in all respect as per the direction of Engineer / .in charge. (Including cost of all Hardware fittings) in all floors.	8	Sqm.			
28	Providing and fixing natural anodized aluminium door, (frame and shutter) fabricated from extruded aluminium alloy section as per drawing, anodized to 15 microns in silver satin mat finish, members confirming to ISI mark, glazed using 6mm thick plain glass, including providing all necessary fittings, fixtures and handle, brass door lock, double acting floor spring, (shutter opening inside only) aluminium tower bolt, neoprene gasket, etc., as per drawing, and fixed to the walls or columns with lugs in cement concrete 1:2:4 cutting holes and mending good to all damages, including filling the gaps if any, between the frames and walls/columns, with appropriate sealant including cost of all materials, labour, conveyance, taxes, royalties, scaffolding, direction of the Engineer-in-charge.	9	Sqm			

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SI. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
29	Providing, fitting and fixing fully glazed aluminium sliding windows (2 track), made out of extruded aluminium alloy sections as per drawing anodized to 15 microns in silver satin mat finish, confirming to IS specification with necessary fittings, fixtures and hardwares like concealed locks , aluminium handles, etc., glazed with 5mm thick frosted glass free from bubbles, holes or any surface deformation, as per the drawing and design, and fixed to the walls or columns with lugs in cement concrete 1:2:4 cutting holes and mending good to all damages, including filling gaps if any, between the frames walls/ columns, with appropriate sealant, including cost of all materials, labour, conveyance, taxes, royalties, scaffolding, sundries, tools and plants, etc., complete as per the direction of the Engineer-in-charge.	80	Sqm			
30	Providing ,Supplying & fixing on wall face unplasticised -Rigid PVC rain water pipes confirming to IS :13592 type A including jointing with seal ring confirming to IS :5382 leaving 10mm gap for thermal expansion 110mm dia single socketed pipes of approved make & quality including shoe,bends, grating,ears etc. embaded in masonry /fixed in walls as directed complete in all respects with all labour,tax, material , lead, royalty, T&P etc. as per direction of Engineer . -in-charge. in all floors	75	Rmt.			

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SI. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
31	<p>Providing and applying Acrylic washable distemper paint two coats with approved paint from Acrylic Tractor distemper of Asian Paints/ Bison Acrylic Distemper of Berger Paints/ ICI Maxilite Acrylic distemper of ICI Dulux make and approved shade over new/ old surface. Item includes following jobs. 1. Removing the existing white wash thoroughly by scraping if required. 2. Carrying out minor repairs including sealing cracks with cement or putty as instructed by Engineer 3. Applying one coat of acrylic putty of approved brand 4. Making the surface smooth by sand paper etc. 5. Applying one coat of primer of suitable quality of approved brand. 6. Applying Two coats of Acrylic washable distemper. Item includes scaffolding; making good the damaged and rough surfaces smooth; cleaning of dirt; removal of old mortar drippings wherever required; preparation of surface; cleaning doors, windows, ventilators, etc. after completion of work. Item also includes cost of all materials, labour, tools and tackles etc. complete. All material shall be applied as per manufacturer's specification</p>	1350	Sqm			

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Sl. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
32	Providing and applying two coats of external paint over a coat of suitable primer with Antifungal Acrylic Emulsion of Asian make ACE / Berger make Walmasta /Goodlas - Nerolac make Excel/ ICI Dulux make Super coat/ Nitco make outlook of approved shade over existing plastered wall and other surfaces including applying one coat of acrylic putty of approved brand, making good the damaged and rough surface smooth, minor repairs, sealing of cracks with cement slurry and cleaning of doors, windows, ventilators, washing the surroundings after completion of work including cost of all materials, labours etc. complete as per specification and as directed by the Engineer.	525	Sqm			
33	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 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.	25	Sqm			

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
34	Providing & fixing aluminium sheet covering to expansion joints with copper screw as per drawing to match the colour shade of the wall treatment, using aluminium fluted sheet of 2mm thickness including cost of all material, labour scaffolding as per drawing and direction of Engineer in charge. in all floors	135	Metre			
35	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 .	750	Sqm			
36	Cleaning the roof 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.	800	Sqm			
37	Anchoring with following dia reinforcement & chemical grouting, including drilling holes for the anchoring & depth as per the standard specifications cost includes all material,labour,tax,lead,T&P etc. complete in all respects in all floors. 8mm dia	90	Each			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
38	Providing & Fixing of Alumunium Composite Pannel using of 3mm exterior Alumunium composite panel (ALSTONE /ALCOBOND / equivalent BRAND) using 50mm x25mm alumunium tube ,baker rod, silicon sealant, 60mm fastner pressure tape,angle screw vivit and good quality structural silicon tube including cost of conveyance, taxes, of all material , labour ,T&P etc. complete in all respects. in all floors	300	Sqm			
39	Providing & Fixing of Structural Glazing using 64 x 58mm Alum. Section in colour Anodised Finish with 6 x 6mm spaces tape, 6 x12mm Silicon Seant-of GE or DOW Corning make with all nut & bolts ,pressure tape,100mm fastner, good quality structural silicon tube with 6mm one side mirror reflected one side ocean blue colour glass (saint gobain) including cost of conveyance, tax, of all materials, labour, T&P etc. complete in all respects.in all floors	215	Sqm			

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SI. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
40	Providing & applying vertical & horizontal expansion joints (up to 50mm thick) with polysulphide based elastomeric sealant of Sika/ any approved manufacturer confirming to BS 4245-1983 (Gun grade for vertical joints & Pouring grade for horizontal joints) for sealing expansion / construction joints, removing the old joint material from the joint if required, cleaning the same and applying the sealant to the joint as per manufacture's specification with thermocol underlay , priming coat including cost of all material,labour,tax,lead,scaffolding charges, T&P etc. complete in all respects as per the direction of consultant in charge. in all floors	135	Rmt			
41	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.	180	Sqm			
42	Supplying & Fixing railing & balustrde stainless steel grade 304 pipe satin matt finish of 50mm dia with all necessary accessories, manufacturing as per the detailed drawing & fixing in position with all necessary fixtures, scaffolding, T&P etc. complete .	20	Rmt			

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SI. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
43	Supplying & Fixing of stainless steel grade 304 pipe satin matt finish of 50mm dia with all necessary accessories, D-braket, manufacturing as per the detailed drawing & fixing in position with all necessary fixtutes, scaffolding, T&P etc. complete .	15	Rmt			
44	Providing & Laying Reinforced Cement Concrete in proporation (1 cement: 1 1/2 coarse sand :3 graded coarse aggregates 12.5mm nominal size) in vertical & horizontal fins individually / forming box louvers , facias & eaves boards upto upto floor five level excluding cost of centering ,shuttering, reinforcement including cost of all materials, testing charges of material, labour, lead, royalty,tax, scaffolding, mixing by mechanical mixer, hoisting, laying, compacting by mechanical means, concreting by suitable means and curing etc. complete in all respects as per the direction of Engineer / .-in-charge. The surface of concrete should have finished surface with out undulation & honeycomb. The unfinished surface shold be plastered with 6mm thk cement mortar (1:3), No extra payment will be paid for plastering, chisseling etc.	6	Cum			

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Sl. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
45	Providing & constructing exposed brick work in cement mortar (1 cement : 3 coarse sand) in K.B. bricks of size (23cm x 12cm x 8cm) with tolerance +/-8% having crushing strength not less than 55Kg/sqcm in buttresses, duct walls of all thickness , making groves in the existing wall -dowels including cost of all materials,scaffolding, labour, testing charges of material, lead, royalty, curing, pointing, T&P etc. complete in all respect as per the direction of Engineer . -in-charge	15	Cum			

TOTAL

Carried over to General Summary

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
SECTION-B, WATER SUPPLY & SANITARY WORK						
1	Providing , Supplying & Fixing European type white vitrious ware water closet with seat & lid of approved make & shade I.S.I marked of approved make with "S" trap and 10.0 liters capacity low level flushing cistern in white plastic with manually controlled device (hand lever) of approved make / shade with side inlet complete with all internal fittings confirming IS:- 7231. 40mm flush bend, overflow arrangement with all fittings & fixtures including cost of all materials, labour, lead, tax, T&P,royalty etc.complete in all respects as per direction of Engineer. in charge. WC Pan with ISI marked white solid plastic seat & lid.	1	No			
2	Providing, Supplying & Fixing Indin type water closet I.S.I. Marked (confirming to IS : 7231) of approved make with integral foot rest white vitrious ware with P / S trap (PVC) with 10.0 ltr capacity low level flushing cistern in white plastic manually controlled device (handle lever) of approved make /shade 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, royalty etc.complete in all respects as per direction of Engineer. in charge. White vitreous china orissa pattern WC pan size (580x440mm) with integral type footrest, 32mm dia flush pipe	1	No			

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
3	Providing & Fixing one piece construction white vitreous china squatting plate with an integral flushing pipe, white pvc automatic flushing cistern parryware/hindware with fittings ,standard size GI flush pipe for back and front flush with standard spreader pipes with fittings,GI clamps,CP brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required . Range of two squatting plates with 5 ltr PVC automatic flushing cistern.	1	No			
4	Supplying & Fixing white vitreous china flat back of approved make size (430x 260 x 350 mm) with automatic flushing cistern with standard flush pipe and CP brass spreader with brass union & GI clamps complete including painting of fittings and brackets cutting & making good the damages to walls & floors. Fixed in the range of two & connected to one no of vitrious ware white 5 ltrs. capacity PVC automatic flushing cistern including cost of all materials, labour,tax,T&P, lead, royalty etc.complete in all respects as per direction of Engineer. in charge.	2	No			
5	Providing & constructing 20 mm thick marble partition of approved colour partition [91 x 61 cm] to be fixed in cement mortar [1:3] after cutting groove in walls & making good the damages as per drawing including cost of all materials, labour, lead, tax, royalty etc. complete in all respects as per direction of Engineer. in charge.	2	No			

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Sl. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
6	Providing & fixing 100mm dia white vitrious ware block floor channel for above urinals laid in proper gradient with white cement joint ,30 cm channel with stop end plain block end with outlet as necessary & making good the damages as per drawing including cost of all materials, labour, tax, T&P, lead, royalty etc. complete in all respects as per direction of Engineer /. in charge.	3	Rmt			
7	Providing and fixing wash basin of oval counter top basin (570 x 410mm) of Johnson Peddar code - J 8324 and white colour as per drawing complete with all accessories like waste pipe, necessary piping etc complete as directed.	2	No			
8	Providing and fixing PVC nahani floor trap with CP jalli 100 /150mm dia on top of the trap complete as directed	2	No			
9	Providing & fixing 6mm thick 60 x 45cm beveled edged sheet glass mirror of approved make with necessary ,CP mirror screws & making good the damages as per drawing including cost of all materials, labour, lead, T&P, tax,royalty etc.complete in all respects as per direction of Engineer /. in charge.	2	No			
10	Providing and fixing CP Towel Ring - Jaquar Continental CAT No. 1121 complete as directed.	2	No			
11	Providing and fixing Angular Stop Cock - Jaquar Continental CAT No. 053 complete as directed.	5	No			
12	Providing and fixing CP Bib Cock - Jaquar Continental CAT No. 037 complete as directed.	2	No			

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13	Providing and fixing CP Pillar Cock - Jaquar Continental CAT No. 011 complete as directed.	4	No			
14	Providing and fixing Double Coat Hook - Jaquar Continental CAT No. 1161complete as directed.	2	No			
15	Providing and fixing soap dish - Jaquar Continental CAT No. 1131complete as directed.	4	No			
16	All pipe lines shall be concealed in the wall/floor. All G.I. pipes shall be 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 .					

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	G.I. Pipes for following dia with all necessary fittings such as bends, tees, elbows, reducers, sockets, caps, clamps, plugs, union etc.& mending 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.					
a	25mm	25	Rmt.			
b	20mm	35	Rmt.			
c	15mm	20	Rmt.			
17	Supplying & laying of the PVC (SWR) and rigid PVC soil waste and vent pipes of Finolex or equivalent make of Selfit type/ring fit type as per requirement, on the wall surface and below ground and floor level. The rates includes fixing the pipes on wall surface with the PVC clips/clamps including jointing with rubber ring, rubber lubricant, Gasket for PVC (SWR) pipes/solvent cement for rigid PVC pipes to required length. Testing as per the specifications of manufacturer. Necessary earthwork in excavation and filling of the pipeline trenches, providing staging and scaffolding as per requirement at site all complete as per direction of Engineer's-in-charge is inclusive in the rate. The rate also includes all labour, material, transportation, lead, lift, ascent, descent, taxes, royalty etc.					
	(a) 110 mm dia PVC (SWR) pipe Class 'A' (with wall thick of 2.20 mm to 2.70 mm)	35	Rmt.			
	(b) 75 mm dia PVC (SWR) Pipe Class 'A' (wall thickness of 1.8 mm to 2.20 mm).	25	Rmt.			

No of correction-
No of Interpolation:-
No of overwriting

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
18	<p>Providing & Constructing Inspection pit/ chamber of internal size [0.75mt x 0.75 mt x 0.70 mt] in 230mm thick brick wall using bricks strength not less than 55 Kg/ sqcm & cement sand mortar in proportion (1cement : 6 coarse sand) over 150mm thick bed of plain cement concrete in proportion (1cement: 3 coarse sand: 6 graded stone aggregates of 40mm down size) ,inside plastering of 20mm thick in cement mortar of proportion of (1cement:3sand) including neat cement punning ,top slab of 10cm thick RCC slab in proportion (1cement: 11 /2 coarse sand: 3 graded stone aggregates 20mm nominal size),</p> <p>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 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.</p>	2	No.			
19	<p>Supplying & Fixing 1000 ltr capacity water tank of Sintex/ any approved make with fixing it in position with inlet ,outlet & overflow pipe connection with all necessary accessories like union,elbow, shortpiece etc. Cost includes material, labour, tax, lead, scaffolding charge complete the work in all respects.</p>	2	No			

TOTAL
Carried over to General Summary

No of correction-
No of Interpolation:-
No of overwriting

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Sl. No.	Item Description.	Qnty.	Unit.	Rate (in figures)	Rate (in words)	Amount
SECTION-C, APPROACH ROAD DEVELOPMENT						
1	Demolishing Plain cement concrete work including stacking of servicable material and disposal of unserviceable material within 50m lead.	25	Cum			
2	Box cutting for roads/ path ways upto required depth including dressing ,levelling ,preparing sub grade & consolidation to proper camber ,gradient with PRR,in all kinds of soil,allow for necessary earth work in filling as required & spread & level surplus earth within the site as per direction of Engineer in charge.	50	Sqm			
3	Providing and Laying of Plain Cement Concrete of proportion (1cement: 3coarse sand: 6 graded metal 40mm down size) by volume 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.	25	Cum			
4	Providing and Laying of external paving tile of (ULTRA/ EUROCON /EQUIVALENT) of approved pattern over base course of average 20mm thick cement mortar (1 cement : 3 coarse sand) by volume 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.	250	Sqm			

TOTAL**Carried over to General Summary**

No of correction-
No of Interpolation:-
No of overwriting

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Sl. No.	Item Description.	Qty.	Unit.	Rate (in figures)	Rate (in words)	Amount
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GENERAL SUMMARY

SECTION-A, CIVIL WORK

SECTION-B, WATER SUPPLY &
SANITARY WORK

SECTION-C, APPROACH ROAD
DEVELOPMENT

GRAND TOTAL

IN WORDS:-RUPEES

No of correction-
No of Interpolation:-
No of overwriting

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