

	BOQ/ FINANCE BID				
NAME OF WORK : REPAIRING & RENOVATION WORK OF 8 NOS TOILETS AT GROUND, FIRST AND SECOND FLOOR OF "CHUNILAL BHAVAN" , NIPER - KOLKATA AT 168, MANIKTALA MAIN ROAD, KOLKATA-700054.					
Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	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 metres lead as per direction of Engineer-in-charge :	80	RM		
	a) 15 mm to 40 mm nominal bore				
2	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :				
	a) 100 mm dia pipe	45	RM		
	b) 150 mm dia pipe	40	RM		
3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar. Work includes removal of Brick work of Foundation right up to bottom level below 1m.	2.5	cu.m		
4	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	1	cu.m		
5	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	1	cu.m		
	a) Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)				
6	Dismantling of flushing cistern (C.I./PVC/Vitrious China), wash basin, wc pan, comode etc. of all types including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	20	each		
7	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : area 3 sq. metres and below	25	each		
8	Dismantling old internal,external plaster, IPS Floor,skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	550	Sq.m		
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	b) Suspended floors, roofs, landings, balconies and access platform	10	sq.m		
	c) Lintels, beams, plinth beams, girders, bressumers and cantilevers	10	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
10	Labour for propping up overhead members as a precautionary measure against falling as directed with necessary planks, Eucalyptus props, packing nails, wire ropes, iron wires etc. including hire charges of all materials fitting, fixing dismantling and removing the props etc and all ancillary works in this connection complete.				
	(Payment to be made on volume measurement considering the height and contact area)	252	cu.m		
11	Cleaning exposed reinforcement of slab by scraping & applying chemical like "No Rust" / "Rustop" on top of it, cleaning the surface complete.	60	sq.m		
12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete at all Floors				
	a) Thermo-Mechanically Treated bars of grade Fe-500D or more.	50	kg		
13	Providing and laying in position cement concrete 1:1½:3 (1 Cement: 1½ coarse sand :3 graded stone aggregate) for repairing ceiling with water proofing compound Sika latex with wiremesh welded with the existing reinforcement of floor/ceiling to strengthend the RCC floor/roof slab including preparation of roof surface by removing loose concrete/ plaster / tarfelt, grading roof surface & shall be smooth finished.	5	cu.m		
14	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases, on roof surface above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	1	cu.m		
15	Supplying & applying Pidifin 2K in 2 coats of Dr. Fixit or equivalent on top of plaster surface in Roof, canteen & common room area.	35	sq.m		
16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc. , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
	a) Hot finished seamless type tubes	155	kg		
17	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 mm thick	75	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
18	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	a) Cement mortar 1:6 (1 cement : 6 coarse sand)	2.2	cu.m		
19	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. :Cement mortar 1:4 (1 cement : 4 coarse sand)	25	sq.m		
20	12mm cement plaster of mix 1:4	65	sq.m		
21	15 mm cement plaster on the rough side of single or half brick wall of mix - 1:6	620	sq.m		
22	20mm cement plaster of mix 1:6	240	sq.m		
23	Neat cement punning.	50	sq.m		
24	Providing and applying white cement based putty of average thickness 1 mm , of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	290	Sqm		
25	Finishing walls with Acrylic Smooth exterior paint of required shade :				
	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	240	sq.m		
26	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer sqm	360	sq.m		
27	Providing wood work in frames of doors , windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).	0.3	cu.m		
	a) Sal wood				
28	Providing & fixing ISI marked Flush Door shutters conforming to IS:2202 (Part 1) 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 or cross bands and face laminated with 1mm thick on both sides of shutters (THE COST OF LAMINATE IS TO BE PAID SAPERATELY)				
	a) 35mm thick including ISI marked stainless steel butt hinges with necessary screws.	16	sq.m		
	b) Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters including spirit polishing. (over all area of door shutter to be measured).	16	sq.m		
	c) Supplying fitting, fixing decorative lamination conforming to IS: 2046 : 1995 as per approved make, brand, finish and thickness with fitting, fixing the same on Particle/MDF / Ply Boards / double skin multipurpose cement board with recommended / approved adhesive with proper clipping the sides for better attachment as per direction of Engineer-in-charge.The rate includes the cost of labour,adhesive and all incidental charges thereof. (Century / Green / Royal Touch)				
	Glossy/Matt/ texture or metallic laminate Thickness of laminat 1 mm	32	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
29	M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor. a) Grill weighing above 16 Kg./sq.mtr and above.	160	kg		
30	Applying priming coat : a) with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	15	sq.m		
31	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : a) Two or more coats on new work	15	sq.m		
32	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm sqm	75	sq.m		
33	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, 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.	330	sq.m		
34	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (\pm 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (\pm 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineerin-charge.	30	RM		
35	Providing and fixing 37 mm thick factory made PVC door shutter , styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (\pm 0.2 mm), with inbuilt bead on one side, styles and rails mitred cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (\pm 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (+ 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers, including butt hinges, tower bolts, others fittings / fixtures etc.complete, all as per manufacturer's specification and direction of Engineer-in-charge.	10	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
36	Providing and fixing aluminium work for doors, windows, ventilators (openable/fixed/sliding) and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc.(Rate include the cost of EPDM rubber/neoprene gasket) Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling,C.P. brass / stainless steel screws,locking arrangement, Stay and Handle, Tower bolt all complete as per architectural drawings and the directions of Engineer-in-charge. (Aluminium and all fittings to be pain in Kg. & Glazing to be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	65	kg		
37	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	a) With float glass panes of 4.0 mm thickness (Plain / Figured / Frosted)	10	sq.m		
38	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. (Make - Godrej / Britonex)	8	each		
39	Providing and fixing S/S 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 : 300x16 mm	8	each		
40	Providing and fixing stainless steel 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 : 300x10 mm	16	each		
41	Providing and fixing aluminium hanging floor door stopper , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	8	each		
42	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete. (Godrej or equivalent)	4	each		
43	Providing and fixing bright finished brass handles with screws etc. complete: 125 mm	16	each		
44	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
	a) W.C. pan with ISI marked black solid plastic seat and lid	8	each		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
45	Supply & fixing of Stainless steel grating 100mm dia	23	each		
46	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks including CP Urinal Flush pipe with CP Waste fittings, CP connector with both ends coupling with heavy brass C.P. nut, 15 mm dia.complete. 590 mm X 390 mm X 380 mm	6	each		
47	Providing & fixing 15 mm C.P. over brass spreader.	6	each		
48	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass long neck pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: a) White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	9	each		
49	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	9	each		
50	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	9	each		
51	Supplying, fitting and fixing towel rail with two brackets. (ii) 25 mm dia. and 600 mm long	9	each		
52	Supplying, fitting and fixing liquid soap container. Fibre glass	9	each		
53	Providing and fixing C.P. brass bib cock (plain/angular) of approved quality conforming to IS:8931 : a) 15 mm nominal bore.	8	each		
54	Providing and fixing C.P. brass stop cock (surface/concealed) (plain/angular) of standard design and of approved make conforming to IS:8931. a) 15 mm nominal bore	30	each		
55	Providing and fixing Stainless Steel Coat Hook with necessary screws.	8	each		
56	Providing and fixing Fibre glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	9	each		
57	Providing and fixing C.P. Brass toilet paper holder :	8	each		
58	Providing & fixing CP Brass commode shower (Jaquar make)	8	nos.		
59	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter each	2	each		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
60	Supplying, fitting and fixing PVC pipes of approved make of (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials.) (Surface in outside / Concealed in inside)				
	a) 50mm	20	RM		
	b) 40mm	12	RM		
	c) 25mm	150	RM		
	d) 20mm	70	RM		
	e) 15mm	90	RM		
61	Supplying, fitting and fixing Peet's valve fullway gunmetal standard pattern best quality of approved brand bearing I.S.I. marking with fittings (tested to 21 kg per sq. cm.).				
	b) 50mm	2	each		
	c) 40mm	2	each		
	e) 25mm	8	each		
	f) 20mm	8	each		
62	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
	50 mm nominal bore - vertical.	1	each		
	40 mm nominal bore - vertical.	1	each		
63	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	a) 25 mm nominal bore	2	each		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
64	Providing and fixing UPVC Pipes in toilets, Kitchen, Laboratory with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, cowl, short piece, P trap, S trap etc. fitted with holder bats clamps / UPVC clamps including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials / adhesive and in any position above / below ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials.)				
	i) Above ground				
	a) 75 mm	20	RM		
	b) 110mm	110	RM		
65	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes including fittings/accessories conforming to IS : 13592 Type A, including adhesive jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials.)				
	(i) Single socketed pipes. 110 mm diameter	20	RM		
66	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc.				
	a) 100 mm diameter	20	each		
67	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
	a) For pipes 100 to 250 mm diameter	10	each		
68	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), 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 1:5:10 (1 cement : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :				
	Inside dimensions 455x610 mm and 45 cm deep (average) for single pipe line :				
	a) With common burnt clay F.P.S. (non modular) bricks of class designation	8	each		
69	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :				
	a) 150 mm diameter S.W. pipe	80	RM		
	b) 250 mm diameter S.W. pipe	60	RM		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
70	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement 1 fine sand) including testing of joints etc. complete :				
	a) 150 mm diameter	80	RM		
	b) 250 mm diameter pipe	60	RM		
71	Removing sludge from Septic tank, Soak well, etc. by methor labour including disposal of the same outside outside the compound as directed - upto 50 users.				
	ii) Beyond a lead of 150M & outside the Municipal limit.	1	each		
72	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight ofcover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	100x100 mm size P type				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	6	each		
73	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	250 mm dia. R.C.C. pipe	10	RM		
74	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	each		
75	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	each		

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76	Providing and placing on terrace (at all floor levels) polyethylene water storage tank , IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
	a) Circular tank (2 x 3000)	6000	per litre		
77	Cleaning of existing exterior sewerage system upto Corporation pit.	1	each		
78	Making a Sewer connection from inside campus to KMC Sewer line with necessary pipe line, cement mortar, cement concrete, excavation, dismantling, cutting holes etc. complete as per direction including necessary permission.	1	each		