

	BOQ/ FINANCIAL BID				
NAME OF WORK : REPAIR AND RENOVATION WORK (CIVIL) OF "CHUNILAL BHAVAN" , NIPER - KOLKATA AT 168, MANIKTALA MAIN ROAD, KOLKATA-700054.					
Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	a) Dismantling roofing including ridges, hips, valleys and gutters, etc. and stacking the materials within 50M leads.				
	i) Asbestos Sheet	170	sq.m		
	b) Dismantling tiled roofing with battens, boarding, etc. complete including stacking of unserviceable materials within 50M lead.	70	sq.m		
2	Dismantling wooden partitions, Frames at out side, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	350	sq.m		
3a	Buyback all dismantled materials like wooden partitions, Frames at out side, doors, windows, fixed glazing and false ceiling .	1	lot		
b	Buyback all dismantled materials like tiled roofing with battens, boarding, etc etc.	1	lot		
4	Dismantling old internal & external plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	100	Sq.m		
5	Taking out old damaged tarfelt from the roof , parapet etc. preparing the roof surfaces by removing all spoils, blisters, moss etc. from the working site and disposal of the same beyond the compound and cleaning the site in all respect as per direction of Engineer-in-Charge. at all heights	250	sq.m		
6	Removing carefully terraced floor up to 50m thick only or lime terracing in roof and removing rubbish as directed within a lead of 75 m. In all Floor.	20	Cum		
7	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		
8	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.	5	cu.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
9	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	2	cu.m		
	a) Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)				
10	Disposal of building rubbish / malba / similar unserviceable , dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	5	cu.m		
11	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		
12	Buyback of above dismantled windows, doors etc. and clearing from site.	1	Lot		
13	Dismantling artificial stone flooring upto 50 mm. thick by carefully chiselling without damaging the base and removing rubbish as directed within a lead of 75 m. In all Floor	50	sq.m		
14	Cleaning exposed reinforcement of slab by scraping & applying chemical like "No Rust" / "Rustop" on top of it, cleaning the surface complete.	10	sq.m		
15	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work				
	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size):.	1	cu.m		
16	Supplying & spraying on Excavated Earth pit, Floor, Wall surface, Ceiling etc. as per direction with chemical emulsion in sealed containers including delivery as specified.	200	litres		
	a) Chlorpyrifos/ Lindane emulsifiable concentrate of 20%				
17	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 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		
18	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	c) Lintels, beams, plinth beams, girders, bressumers and cantilevers	10	sq.m		
19	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.	80	kg		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
20	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	cu.m		
21	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)	15	sq.m		
22	Making and fixing wooden window shutters as per existing design of building. (1.2M x 1.8M size)	3	nos.		
23	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.	6	sq.m		
	a) Second class teak wood - 35 mm thick shutters				
24	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.	36	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).	36	sq.m		
c	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :- rectangular or square. [It.	2	sq.m		
d	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 (ii) Thickness of laminat e 1 mm	72	sq.m		
25	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				

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
26	Replenishing wrought iron railing as per existing design of staircase.	3	nos.		
27	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	4000	kg		
28	Providing and fixing bolts including nuts and washers complete.	20	kg		
29	Providing and fixing pre-coated galvanised iron profile sheets (size,shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	150	sq.m		
30	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete .:	23	M		
	a) Ridges plain (500 - 600mm)				
31	Applying priming coat :				
	a) with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	260	sq.m		
	b) With ready mixed wooden primer of approved brand and manufacture on resinous wood and plywood	500	sq.m		
	c) Priming one coat on plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	2550	sq.m		
32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	a) Two or more coats on new work	550	sq.m		
33	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.	2550	Sqm		
34	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	2500	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
35	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	2550	Sqm		
36	15 mm cement plaster on the rough side of single or half brick wall of mix - 1:6	100	sq.m		
37	20mm cement plaster of mix 1:6	600	sq.m		
38	Neat cement punning.	50	sq.m		
39	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 (avg) mm thick with 20 mm nominal size stone aggregate	50	sq.m		
40	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)	600	sq.m		
41	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. / Architect. (Aluminium and all fittings to be paid in Kg. & Glazing to be paid for separately)				
	Anodised / Powder coated aluminium (minimum thickness of powder coating 50 micron)	3155	kg		
42	Cleaning, easying & necessary repairing of existing wooden venetian windows including replacing of stay, cleat, bolts etc. complete.	80	Nos		
43	Supplying, fitting, fixing 4mm float glass in sky light of top of wooden window / shutter by replacing the existing defaced glass.	10	sq.m		
44	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): (Only exposed glass area will be measured)				
	a) With float glass panes of 4.0 mm thickness (Plain /Tinted / Figured / Frosted / Frosted Film)	355	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
45	Wall panelling / partition with Melamine faced 3 layered flat pressed wood particle board of approved make and brand as per direction of Engineer - in - Charge of requisite grade bonded with phenol formaldehyde synthetic resin conforming to IS: 848 - 1974 (excluding the cost of supporting frame work) (Only exposed panel area will be measured)				
	(B) Prelaminated particle board conforming to IS: 3087 - 1985 and IS 12823 - 1990. (ii) Both side decorative laminate (a) Exterior grade 9mm thick.	230	sq.m		
46	Providing and fixing bright finished brass handles with screws etc.complete: 125 mm	30	each		
47	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)	40	each		
48	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	15	each		
49	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	30	each		
50	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	15	each		
51	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)	25	each		
52	Providing and fixing 18 mm thick granite slab gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias, steps & Risers, Basin Top, Urinal Partition both sides polished with two front corners rounded and edges polished.and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	a) Granite of any colour and shade Area of slab over 0.50 sqm	5	sq.m		
53	Spirit polishing 2 or more coats on existing wooden surface including preparation of surface with sand papering, coat of wooden filler etc. complete.	40	sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
54	Plaster (to wall, floor, ceiling etc.) with composite mortar of sand, lime and cement including round off or chamfering corners as directed and raking out joints and roughening of lime concrete surface including throating, nosing and drip course where necessary (i) With (1:2:9) composite mortar with 1 cement : 2 lime paste/putty : 9 sand a) 35mm thick	300	sq.m		
55	Supplying & applying Pidifin 2K in 2 coats of Dr. Fixit or equivalent on top of plaster surface in Roof, canteen & common room area.	120	sq.m		
56	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.	120	sq.m		
	Size of Tile 600x600 mm sqm				
57	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.	105	sq.m		
58	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	260	sq.m		

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59	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	5	sq.m		
60	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.	450	kg		
	a) Grill weighing above 16 Kg./sq.mtr and above.				
61	FULL HEIGHT PARTLY GLAZED PARTITION : Providing and fixing partition framing upto ceiling level. Framing shall consist of 50 x 50 mm Hard wood member, at 600 c/c bothways horizontally and vertically. Above false ceiling alternate vertical sections to extend upto main ceiling and to be fixed with MS cleats. Framing to be covered on both sides with 9mm thick BWP ply finished with 1mm thick laminate both side, necessary groove work, beadings, moulding duly finished with laminate of approved shade & colour. Upto a height of 900 mm from FFL and from 2100 mm upto the false ceiling, the partition should be made solid / fully blocked; from 900 mm to 2100 mm clear glass of 4 mm thickness fixed with D - type holder. The item is to be finished complete in all respects. (Partition to be measured upto false ceiling height excluding door opening for Billing purpose). (Century / Green Ply)	120	Sq.m		
62.	ROLLER BLIND : Providing and fixing Roller Blind to cover window of approved brand/make, shade & quality with all accessories including adjuster hardware, labour & materials complete with all in all floors.	10	Sq.m		
63.	VERTICAL BLIND : Providing and fixing of 100 mm wide Vertical Blind to window of approved brand/make, shade & quality with all accessories including adjuster hardware, labour & materials complete with all in all floors.	190	Sq.m		
64	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and				

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	30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting				
	a) 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	52	Sq.m		
65	Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system (E-Grid U-1520 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c) consisting of Main Runner 3600 mm long, Cross Tee 1200mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at a regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins / soffit. 15mm thick OW Acoustic Board (Mineral Fiber Acoustic Ceiling Tiles) of approved pattern and size 595mm X 595mm with NRC value > 0.65 should be placed in the Grid module to form a False Ceiling. All complete as per the drawing & directions of Engineer-in-charge.				
	& directions of Engineer-in-charge.				
	a) Acoustic False Ceiling (with 15mm thick OW Acoustic Board and E-Grid U-1520)	32	Sq.m		
66	Supplying, fitting and fixing of false ceiling framework with powder coated exposed G.I. grid suspension system (E-Grid T 2430/1510 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c) consisting of Main Runner 3600 mm long, Cross Tee 1200 mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins / soffit. all complete as per drawing & directions of Engineer-in-charge	1025	Sq.m		

Sl. No.	Description of Item	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
67	Supplying ,fitting & fixing Eco-friendly, Moisture Resistant and Incombustable Gypsum plaster board/tiles (Density > 700Kg per Cu.m)conforming to IS 2095- Part 1, 2011 of size 595mm X595mm of approved design and brand placed in the Grid module to form a false ceiling all complete as per drawing & direction of Engineer - in-Charge. False ceiling with (ii) 12.5mm thick Square edged Gypsum Plaster Board / tiles	1025	Sq.m		
68	Supplying, fitting and fixing 8mm thick Laminated wooden Flooring Work conforming to EN13329:2006 with plank size not less than 1200 mm X 190 mm(with unilin/tongue-groove locking arrangement) having 0.2mm thk top abrasive layer over a decorative layer followed by a High-density fibreboard(HDF) having density > 850 kg/m ³ substrate core over a resin saturated backing layer and installing through unilin or tongue-groove system (having locking strength not less than 1000 kg/m) over a 2 mm thk underlayer polyurethane foam on polythene sheet 250 micron, over a smooth, flat, hard subfloor free from moisture (< 8%), grease etc. complete in all respect with requisite accessories like end profile, transition profile, reducer 'T' profile etc. wherever required and preparation of base including all other incidental works as per direction & satisfaction of Engineer in charge / Architect. (Make : Green/ Century)	90	Sq.m		
	Category: Normal Footfall; Class-23; Abrasion resistance:-AC3 Thk on Swelling:- < 18% ; Impact resistance:- IC 1				
69	Providing and fixing white vitreous china laboratory sink including making all connections including cost of fittings : Size 600x450x200 mm	2	each		
70	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	2	each		
71	Providing and fixing C.P. brass bib cock (plain/angular) of approved quality conforming to IS:8931 : a) 15 mm nominal bore.	2	each		

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72	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	a) 15 mm nominal bore	2	each		
73	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	6	each		
74	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink with drain board - 510x1040 mm bowl depth 250 mm	2	no.		
75	Supply & complete installation of 15 Ltr. Capacity Gyser with stop cocks, connectors, bolts etc. complete. (Make : Venus / Bajaj)	1	Nos		
76	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				
	a) 40mm	6	RM		
	b) 25mm	80	RM		
	c) 20mm	30	RM		
	d) 15mm	50	RM		
77	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.).				
	a) 40mm	4	each		
	b) 25mm	4	each		
	c) 20mm	4	each		

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78	Providing and fixing UPVC Pipes in toilets, Kitchen, Laboratory with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, 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				
	b) 110mm	40	RM		
79	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	40	RM		
80	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	10	each		
				Total Rs.	