

FINANCIAL BID

NIT No: IIG/022/05 dated 01.07.2022

Name of work : Renovation of Old Electronics Lab at IIG Colaba campus

Sr.no.	Items of works	Unit	Rate/unit	Qty	Amount Rs.
	FINISHING				
1	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.	sq. meters	139.18	350.00	48713.92
2	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. :two coats	sq. meters	136.60	330.00	45077.30
3	Oil painting to barrage board :Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sq.meter	147.72	200.00	29544.70
4	Primer painting to barrage board : Applying priming coat:With ready mixed pink or Grey primer of approved brandand manufacture on wood work (hard and soft wood)	sq.meter	69.06	200.00	13811.50
5	Painting with oil type wood preservative of approved brand and manufacture: Old work (one or more coats)	sq. meters	40.23	50.00	2011.60
6	French polishing to poarch : French spirit polishing : Two or more coats on new works including a coat of wood filler	sq. meters	413.90	60.00	24833.73
7	Meamine polishing to the wood work of poarch : Melamine polishing on wood work (one or more coat).	sq. meters	133.00	60.00	7980.10
8	External painting : Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sq.meter	182.45	240.00	43787.74
	REPAIRS TO BUILDINGS				
9	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
	With cement mortar 1:4 (1 cement : 4 fine sand)	sqmeter	519.53	2.00	1039.07
10	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener. (FRP chowkat)	Each	213.80	2.00	427.61

11	Only labor for Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. :				
	Above 4.00 metres and upto 5.00 metres length. :Sal wood beams	cu meter	15920.87	2.23	35503.55
12	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. sqm 285.00 Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done payment to be done once irrespective of time of project for the fixed stated measurement	sq. meters	320.28	40.00	12811.32
13	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge	sq,. Meter	607.25	1.20	728.69
14	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	each	273.20	3.00	819.59
15	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-inCharge	each	124.40	3.00	373.21
16	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	sq. meter	3.20	59.54	190.70
17	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineerin-Charge. (a) Internal Work- Exposed on wall	meter	3.20	50.00	160.14
	DISMANTLING AND DEMOLITION				
18	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. : Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	2255.58	2.93	6608.85
19	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	cum	1908.72	2.50	4771.80
20	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	each	340.17	30.00	10205.23
21	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : Of area 3 sq. metres and below	each	132.95	30.00	3988.37
22	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area 40 square centimetres and above	cum	4129.40	0.74	3035.11
23	Of sectional area below 40 square centimetres	meter	16.52	392.00	6475.79
24	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead	kgs	5.23	50.00	261.28
25	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. : For thickness of tiles 10 mm to 25 mm	sqm.	67.99	37.86	2574.10
26	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
	Asbestos Cement sheet	sqm.	71.64	282.00	20203.11
27	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 : 15 mm to 40 mm nominal bore	meter	139.46	10.00	1394.64
28	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge: Up to 150 mm diameter	meter	382.88	20.00	7657.57
29	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge	each	647.59	4.00	2590.36
30	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	50.63	310.00	15694.43
31	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	52.26	132.78	6938.64
32	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.	cum	246.51	63.00	15529.85

	ALUMINIUM WORKS				
33	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540- F & ISO 11600				
	Upto 5 mm depth and 5 mm width	rmt	198.91	30.00	5967.38
34	Providing and fixing 12mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer in charge (Door handle, lock and stopper etc. to be paid separately)	sq. meter	5102.84	3.60	18370.22
35	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. : With stainless steel cover plate minimum 1.25 mm thickness	each	2752.02	6.00	16512.11
36	particle board for door shutters : Providing and fixing particle Board 12 mm thick Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked	sqm	1573.10	6.00	9438.57
37	Mosquito net for windows : Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.: With second class teak wood beading 62X19 mm	sqm	1309.11	3.60	4712.81
38	Providing and fixing aluminium work for doors, windows, ventilators 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. 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, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion : Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kgs.	533.47	94.30	50306.02
39	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) :Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	kgs.	644.39	140.27	90388.15
			0.00		0.00

40	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):With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	sq. meter	1489.65	20.00	29793.06
			0.00		0.00
41	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length), fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer-in-charge.	each	79.73	90.00	7176.02
	CONCRETE WORK				
42	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources : for bed concrete of ladies and gents toilets	cu m	8276.96	2.93	24251.48
43	1:2:4 for bed concrete for plinth protection. : Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources	cu m	8276.96	4.47	36997.99
44	1:2:4 for bed concrete for coping on the top of walls of structures plinth protection. : Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources	cu meter	8276.96	2.70	22347.78
	BRICK WORK				
45	Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand):.Above plinth level upto floor V level	cum	9068.28	3.00	27204.84
46	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry 100 mm/ 125 mm thick with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	cum	9991.48	0.15	1498.72
	REPAIRS AND REHABILITATION				
47	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge :50mm average thickness	sq. meter	237.74	25.00	5943.50

48	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge. : Bars upto 12 mm diameter	meter	7.47	120.00	896.79
49	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge. : Upto and including 12mm dia.	each	137.05	210.00	28779.96
50	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. : SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	sq. meter	132.33	25.00	3308.19
51	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. : Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2). :25 mm average thickness in 2 layers.	sq. meter	573.70	25.00	14342.50
52	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-inCharge. (The payment shall be made on the basis of actual weight of approved grout injected.) : Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	kgs.	115.58	100.00	11558.28
53	Fixing of nozzles : Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge	each	227.79	15.00	3416.91
	WOOD AND PVC WORKS				
54	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). : Second class teak wood	cumeter	147866.18	0.41	60625.13

55	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	meter	789.58	7.20	5684.99
56	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	sqmeter	4454.41	3.20	14254.10
57	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	each	69.96	6.00	419.74
58	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :250x10 mm	each	117.32	6.00	703.95
WATER SUPPLY					
59	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall : 32 mm nominal dia Pipes	RMT	562.97	10.00	5629.68
60	25 mm nominal dia Pipes	RMT	459.13	10.00	4591.28
61	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. : 20 mm nominal dia Pipes	RMT	577.35	50.00	28867.61
62	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. : External work :25 mm nominal dia Pipes	RMT	416.54	7.00	2915.76
63	32 mm nominal dia Pipes	RMT	488.91	7.00	3422.36
64	Providing and fixing gun metal non- return valve of approved quality (screwed end) : 25 mm nominal bore				
i	Horizontal	each	569.37	1.00	569.37
ii	Vertical	each	644.50	1.00	644.50

iii	32 mm nominal bore : Horizontal	each	761.43	1.00	761.43
iv	32 mm nominal bore : vertical	each	874.20	1.00	874.20
65	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :25 mm nominal bore	each	887.75	2.00	1775.49
66	32 mm nominal bore	each	932.87	2.00	1865.73
	C.P. BRASS FITTINGS				
67	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	each	69.34	10.00	693.38
68	Providing and fixing PTMT grating of approved quality and colour. : Circular type :				
	125 mm nominal dia with 25 mm waste hole	each	50.85	10.00	508.52
69	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.:				
	20 mm nominal bore, weighing not less than 40 gms	each	85.97	10.00	859.71
70	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) including disposal of malba.	meter	222.96	7.00	1560.73
71	Dismantling old 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 at site lead up to 50 metre : 80 mm diameter C.I. pipe	meter	367.82	5.00	1839.10
72	100 mm diameter C.I. pipe		382.99	5.00	1914.96
73	Labour for cutting C.I. pipe with steel saw. : 80 mm diameter C.I. pipe	each cut	134.74	3.00	404.23
74	Labour for cutting C.I. pipe with steel saw.: 100 mm diameter C.I.pipe	each cut	180.59	3.00	541.78
	DRAINAGE				
75	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 : 100 mm diameter				
	150 mm diameter	meter	664.62	25.00	16615.38
76	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
	150 mm diameter S.W. pipe	meter	1230.73	25.00	30768.24
77	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 of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	150 x 100 mm size P type 19.4.2.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2780.73	3.00	8342.19

78	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :				
	150 mm diameter	meter	91.14	25.00	2278.50
79	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	13133.96	4.00	52535.85
			0.00		0.00
80	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 : For pipes 100 to 250 mm diameter	each	768.34	1.00	768.34
81	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in-charge: Rectangular manhole 90x80 cm and 45 cm deep	each	2355.60	4.00	9422.39
82	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 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 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 for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7227.49	1.00	7227.49
83	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
	150 mm dia		576.68	1.00	576.68
	SANITARY INSTALATIONS				

84	Steel work in single section for fixing of granite top for table top basin :Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kgs	104.57	50.00	5228.48
85	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	each	147.95	6.00	887.69
	TILING				
86	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.: Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent.	sq.meter	4392.71	4.43	19459.70
87	Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge	meter	190.37	32.86	6255.61
88	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only .Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	Glazed Vitrified tiles Matt/Antiskid finish of size : Size of Tile 600 x 600 mm	sq.meter	1473.36	25.27	37231.76
89	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. : Double charge vitrified tile polished finish of size : 600 x 600 mm	sqm	1445.88	54.65	79017.40

90	Providing and laying Vitrified 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 brand & manufacturer, in all colours and shade, in dado, skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).: Size of Tile 600x600 mm	sq. meter	1883.66	82.15	154742.45
			0.00		0.00
91	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. :Size of Tile 600x600 mm	sq. meter	290.67	54.65	15885.16
92	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	sq.meter	469.30	85.00	39890.40
93	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	908.20	8.00	7265.59
94	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. :Granite work	meter	470.70	200.00	94140.73
95	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.Fastener with threaded dia 12 mm	each	59.39	20.00	1187.86
96	Providing and fixing 75 mm high, 50 mm deep and 18 mm thick stone slab table rubbed, edges rounded and polished, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. :Granite Stone of approved shade	sq.meter	3981.45	3.75	14930.46
97	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	meter	534.42	2.00	1068.85
98	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias 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 of edges to give high gloss finish etc. complete at all levels.				
i	Granite stone slab of colour black, Cherry/Ruby red : Area of slab upto 0.50 sqm	sq.meter	5258.65	2.00	10517.31
ii	Granite stone slab of colour black, Cherry/Ruby red : Area of slab over 0.50 sqm	sq.meter	4973.21	24.30	120848.96

99	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias 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 of edges to give high gloss finish etc. complete at all levels. : Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble :Area of slab over 0.50 sq meter.	sq. meter	2966.21	73.70	218609.97
100	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.: 18mm thick				
	Granite of any colour and shade	sq.meter	3388.82	4.49	15215.80
	ROOFING				
101	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.: Hot finished welded type tubes	kgs.	174.08	802.00	139609.45
102	25 mm wooden planking, tongued and grooved in flooring, roofing including fixing with iron screws complete with : Second class teak wood	sq.meter	4706.42	17.62	82927.09
103	Providing and fixing 2nd class teak wood plain lining tongued and grooved,including wooden plugs complete with necessary screws and priming coat on unexposed surface.(barrage board)				
	25 mm thick	sq.meter	4614.83	30.00	138444.86
104	Providing and fixing specified wood frame work consisting of battens 50x25mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete. : Kiln seasoned and chemically treated hollock wood	cu.meter	184094.29	1.58	290868.97
105	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	meter	292.41	52.00	15205.46
106	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete. : 0.63 mm thick with zinc coating not less than 275 gm/m ²	meter	845.60	63.51	53704.27
107	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand):. Stone ware spout	each	159.69	6.00	958.15
108	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. :	meter			
	110 mm diameter	meter	359.34	21.40	7689.77

109	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.:				
i	110 mm coupler	each	134.80	12.00	1617.60
ii	110 mm bend	each	148.34	12.00	1780.10
iii	110 mm Shoe	each	130.30	6.00	781.83
110	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. : 110 mm	each	347.82	20.00	6956.32
111	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams	each	53.83	6.00	322.98
112	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms	each	80.91	6.00	485.48
113	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).	sqm.	389.57	306.00	119206.97
114	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).	sqm.	87.38	17.30	1511.60
115	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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. : 0.63 mm thick with zinc coating not less than 275 gm/ m ²	sq.meter	1099.08	306.00	336317.38
116	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. :0.63 mm thick with zinc coating not less than 275 gm/m ²	meter	843.81	21.17	17863.36

117	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. : GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	sqm	1788.75	170.00	304087.92
118	.Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 6.0 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight (Only plan area of chajja shall be measured for making payment)	Sq.meter	5436.68	26.00	141353.68
119	Internal plastering : Providing and plastering with premixed readymade cement mortar such as 'READYPLAST' of Ultratech or 'EASYPLAST' of WalPlast Products Pvt. Ltd or or equivalent, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). In one coat 6 to 7 litre potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix. - 15 mm average thickness.	sq. meter	437.90	160.00	70064.00

120	External plastering : Providing and plastering with premixed readymade cement mortar such as 'READYPLAST' of Ultratech or 'EASYPLAST' of Walplast Products Pvt. Ltd or equivalent, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). 18 mm average thickness in two coats, under layer 12 mm thick cement plaster and top layer 6mm thick cement plaster finished rough with sponge 6 to 7 liter potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix.	sq. meters	556.95	150.00	83542.50
121	Providing and fixing Aluminum 100mm mortice latch and lock with 6 levers with pair of handles of size 125mm long for aluminium doors including necessary cutting and making good etc. complete.	each	1656.15	4.00	6624.60
122	Providing and fixing of Stainless Steel Bottom patch lock to Toughened Glass Door of size 160mm long including making holes in flooring for locking arrangement etc. complete as per directions of Engineer-in-charge.	each	3483.90	2.00	6967.80
					0.00
123	Providing and fixing of Stainless Steel Tubular Lock of Diameter 50mm including making holes in door sections and fixing stainless steel cover for lock piston in door frames etc. complete as per directions of Engineer-in-charge.	each	1463.60	4.00	5854.40
124	Providing and fixing of Stainless Steel Tubular tubular handle 32 mm outer dia, 3.0 mm thick & 600 mm long with SS screws etc. complete as per direction of Engineer-in-Charge.(main toughened door)	each	2325.10	2.00	4650.20
125	Cutting holes up to 30cm x30cm X 52 cm in walls including making good the same: With common burnt clay F.P.S. (non modular) bricks and 12 mm thk plaster in cm 1:4	each	690.28	6.00	4141.68
126	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with teak wood frame of approved make and shade with 6 mm thick hard board backing :Rectangular shape 1500x1200 in teak wood beading of 2"X 1" and mellamine polish etc.	each	5567.60	4.00	22270.40
127	Providing and fixing tinted toughened glass in roofing of approved make	sqm.	3508.00	6.10	21398.80
TOTAL ESTIMATED COST OF WORK INCLUDING GST / APPLICABLE TAXES ETC.			3789009.49		

Rs. Thirty seven lakhs, eighty nine thousand and nine only/- including GST / all taxes and levis etc. as appliacble

Add/Quote-----% above / -----% Below the estimated cost Tendered cost (Including GST) :

Name and sign of the agency :

Date :