BILL OF QUANTITES FOR	

CONSTRUCTION OF RENOVATION

OF HALL OF RESIDENCE - 4

FOR

NATIONAL INSTITUTE OF TECHNOLOGY.

ROURKELA.

CONSULTANT.

M/S Design Techno

PLOT NO-N-6 /515, Jyadev bihar

Bhubaneswar-12

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EARTHWORK IN EXCAVATIONRs.SECTION-II	
SECTION-IIRs.PLAIN/REINFORCED CEMENT CONCRETE WORKRs.SECTION-IIIRs.BRICK WORKRs.SECTION-IVRs.WOOD WORKRs.SECTION-VSTEEL WORKSTEEL WORKRs.SECTION-VIRs.FLOORINGRs.SECTION-VIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-IXKs.	
PLAIN/REINFORCED CEMENT CONCRETE WORKRs.SECTION-III BRICK WORKRs.SECTION-IV WOOD WORKRs.SECTION-V STEEL WORKRs.SECTION-VI FLOORINGRs.SECTION-VII PLASTERINGRs.SECTION-VIII ALLUMINIUM WORKRs.SECTION-IXItem of the second s	
SECTION-IIIRs.BRICK WORKRs.SECTION-IVRs.WOOD WORKRs.SECTION-VRs.SECTION-VIRs.FLOORINGRs.SECTION-VIIRs.PLASTERINGRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-IXI	
BRICK WORKRs.SECTION-IV WOOD WORKRs.SECTION-V STEEL WORKRs.SECTION-VI FLOORINGRs.SECTION-VII PLASTERINGRs.SECTION-VIII ALLUMINIUM WORKRs.SECTION-IXI	
SECTION-IV WOOD WORKRs.SECTION-V STEEL WORKRs.SECTION-VI FLOORINGRs.SECTION-VII PLASTERINGRs.SECTION-VIII ALLUMINIUM WORKRs.SECTION-IX	
WOOD WORKRs.SECTION-VRs.STEEL WORKRs.SECTION-VIRs.FLOORINGRs.SECTION-VIIRs.PLASTERINGRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.SECTION-VIIIRs.	
SECTION-V STEEL WORKRs.SECTION-VI FLOORINGRs.SECTION-VII PLASTERINGRs.SECTION-VIII ALLUMINIUM WORKRs.SECTION-IX	
STEEL WORKRs.SECTION-VIKS.FLOORINGRs.SECTION-VIIRs.PLASTERINGRs.SECTION-VIIIKS.SECTION-VIIIKS.SECTION-VIIIKS.SECTION-IXKS.	
SECTION-VI FLOORINGRs.SECTION-VII PLASTERINGRs.SECTION-VIII ALLUMINIUM WORKRs.SECTION-IX	
FLOORINGRs.SECTION-VIIRs.PLASTERINGRs.SECTION-VIIIRs.ALLUMINIUM WORKRs.SECTION-IXImage: Comparison of the section of	
SECTION-VII PLASTERING RS. SECTION-VIII ALLUMINIUM WORK RS. SECTION-IX	
PLASTERINGRs.SECTION-VIII ALLUMINIUM WORKRs.SECTION-IX	
SECTION-VIII ALLUMINIUM WORK Rs. SECTION-IX	
ALLUMINIUM WORK Rs. SECTION-IX	
SECTION-IX	
SECTION-X	
WATER PROOFING Rs.	
SECTION - XI	
DISMANTLING WORKS Rs.	
TOTAL Rs.	

	SECTION - I				
SL.NO	EARTHWORK IN EXC DESCRIPTIONS OF ITEM	<u>AVATION</u> QTY	UNIT	RATE Rs.	AMOUNT Rs.
		QTT	UNIT	KATE KS.	AWOUNT KS.
I	Surface dressing of the ground including, removing vegetation				
	and inequalities not exceeding 15cm depth and disposal of				
2	rubbish , lead up to 50mtr & lift up to 1.5 mtr.In all kinds of soil. Earth work in excavation in all type of soil , morrum, hard,	50.00	100Sqm		
	compacted or soft rock, mica schist quartz etc. in foundation of				
	structure, sewer line, drain pits, etc. to required level and grade				
	and dressing complete as per the specification and direction of				
	the engineers, in both dry and wet condition including				
	necessary pumping, bailing out of water, slush removal etc.				
	and transporting the excavated material to soil dump /fill area/				
	excavated pit with a lead of 200mtr. at all heights and descent				
	including dozing, leveling at site of filing all as directed by the				
	engineer, all tools, plants, and labour complete, Authorised				
	working space benching and sick slope for the excavation will				
	be measured and paid under this items up to 3mtr depth below				
	finished Ground Level.	00.00	0		
	All kind of soil.	80.00	Cum		
3	Earth work in excavation in foundation trenches in Ordinary rocks i.e. Disintegrated rock (blasting prohibited) by crowbar,				
	pick axe etc. within initial lift 3.00 mtr , rough dressing to the				
	sides of trench, getting out the excavated rock & disposal of				
	surplus excavated material within 200 mtr of lead including cost				
	of dewatering, shoring, labour T & P tax etc complete in all				
	respect as per the direction of the Engineer -in-charge.	20.00	Cum		
4	Extra for disposal of earth for a lead of 100mt or part there of.	20.00	Cum		
5	Back filling in all positions and height and descent in foundation				
	pits, pipe trench sewer line around foundation and structure in				
	plinth etc. with approved excavated material obtained from a				
	lead of 200mtr including reclaiming from spoils heaps at all				
	height or reclaiming from dumps at all depth cost includes				
	transporting, depositing, filling in layers of 200mm thick				
	dressing watering and ramming complete with tools , plant &	70.00	0		
/	labour.	70.00	Cum		
6	Plinth filling in layers of 150mm thick good quality river sand including watering and consolidating by mechanical means as				
	per direction of engineer.				
	-	60.00	Cum		

7		QTY	UNIT	RATE Rs.	Amount Rs.
	Providing and injecting Chemical emulsion chloropyrophos				
	20% E.C. for pre-constructional anti-termite treatment and				
	creating chemical barriers as per I.S. 6313 Part-C (of latest				
	edition) in wall trenches, foundation, top surface of plinth, filling,				
	junction of walls and floors along the external perimeter of the				
-	building, surrounding of pipes etc complete . The work shall be				
	execute through approved agency/agencies and with				
	guarantee of 10 years. The rate shall be as per plinth area				
	including as directed below.				
	a) Using Chemical Emulsion @ 7.5 Ltr/sqm for				
i	i. Back filling immediate contact with masonry foundation.				
	masonry foundation.				
į	ii. Junction of walls and floors.				
i	iii External perimeter of building.				
	b) Using Chemical Emulsion @ 5.0 Ltr/sqm				
	i. Bottom of side trenches.				
	ii. Top surface plinth filling.	50.00	Sqm		
8	Providing and injecting Chemical emulsion chloropyrophos				
	20% E.C. for post-constructional anti-termite treatment and				
,	creating chemical barriers as per I.S. 6313 Part-C (of latest				
1	edition) in wall trenches, foundation, top surface of plinth, filling,				
	junction of walls and floors along the external perimeter of the				
1	building, surrounding of pipes etc complete . The work shall be				
	execute through approved agency/agencies and with				
	guarantee of 10 years. The rate shall be as per plinth area.	2300.00	Sqm		
	using chemical emulsion @2.25 liters along external wall				
1	below concrete or masonary apron including drilling and				
	plugging holes.				
	using chemical emulsion @1 liter/hole 300mm c/c below				
	existing floor or masonary apron including drilling 12mm diameter hole and plugging holes.				
	using chemical emulsion @1 liter/hole 300mm c/c below				
,	с -				
1	existing masonary including drilling 12mm diameter holes at				
	45degreeand plugging holes full depth with cement mortar (1:2)				
d)	using chemical emulsion in kerosene) @0.5 liter/hole 150mm				
	c/c at 45 degree downward angle				
	below existing masonary including drilling 6mm diameter holes				
	at points of contact of wood work and plugging holes full				
	depth with cement mortar (1:2)				
			TOTAL		

	SECTION - I PLAIN/REINFORCED CEMENT		re wor	K	
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
	Supplying, laying and compacting plain cement concrete of following graded aggregate in all foundation, floor, roof screening etc. and at all heights and depth above and below finished ground level to required levels, slope etc. including				
	curing but excluding the cost of shuttering all as per drawing and direction of engineer, with all material, tools plant and labour.				
	Below finished ground level 1:4:8 with 40mm down graded	5.00	Cum		
b	aggregate. Above finished ground level 1:2:4 with 20mm down graded aggregate.	80.00			
2	Plinth protection:-Providing and making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 part sand : 6 part				
	40mm down size aggregate) over 75mm thick bed of dry brick ballast 40mm nominal size well rammed and consolidated and				
	grouted with fine sand including finishing the top smooth. Providing, laying in position nominal mix(1:1.25:2.5) cement	5.00	Sqm		
	concrete for reinforced cement concrete work including				
	carrying of concrete to site of laying but excluding cost of				
	centering, shuttering , reinforcement , including admixtures in				
	setting of concrete , improve workability without impairing				
	strength and durability as per the direction of Engineer in				
	charge. M20 grade reinforced cement concrete by using 410kg				
	of cement per cum of concrete all work up to floor V level.				
	R.C.C work as defined by the latest IS 456 in all members like				
	foundation, superstructure, slab, column, beam,				
	lintel,chajja,shelves,windows sills, facia, floor/roof slab, fins,				
	stair, footing, drains, encasing of pipe line etc. including curing				
	but excluding form work and reinforcement. All as per drawing				
	and direction of engineer, all materials ,tools plant and labour				
	complete, in plumb line & level with plastering in cement mortar				
а	1 cement : 3 coarse sand at no extra cost as required. Below finished ground level (1:1.25:2.5) concrete with 20mm				
	down graded aggregate.	10.00	Cum		
	Above finished ground level (1:1.25:2.5) concrete with 20mm				
	down graded aggregate.	50.00	Cum		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
4	Supplying and fixing ply and or steel shuttering for all type of				
	R.C.C work at any location in provision with necessary				
	centering, bracing ,propping staging (if required) etc. and				
	striking including curved shuttering fine and facia for all plain &				
	reinforced cement concrete works including all chamfer splays,				
	filler keys, wedges proof, mails bracing bracket, cutting holes				
	for embedment etc. and applying shuttering oil on shuttering				
	surface in contact with concrete all as per drawing and				
	direction of engineer, all tools plant and labour complete. Rate				
	including providing and laying plastic sheet to make water tight				
	shuttering and removing the same for all type of R.C.C work.				
а	At all depth & any location below finished Ground Level .	100.00	Sam		
b	At all heights & any location above finished Ground Level .	100.00	oqiii		
		600.00	Sqm		
	Supplying , loading , unloading transporting , straightening,				
	decoiling, cutting, bending cranking tack welding as necessary				
	placing and fixing in position steel reinforcement including				
	angle /pins provided for approved welded joints at all level				
	above and below finished G.L. for R.C.C and Precast R.C.C				
	work including supplying approved 20 SW annealed black				
	binding wire, cover block etc. including all as per drg. and				
	direction of engineer , all material, tools plants and labour				
	complete. High yield strength deformed bars of Grade Fe 500				
	of all diameters of cold twisted steel / T.M.T of TATA/ SAIL	6.00	M.TON		
	Providing precast cement concrete				
	slab1:2:4(1Cement:2Sand:4Coarse aggregate 6mm nominal				
	size)reinforced with 6mm dia mild steel including cenetring and				
	shuttering roughening and cleaning fixing and finishing in				
	cement motar 1:3(1Cement:3Sand)etc complete excluding				
	plastering of jambssill and soffits				
а	50mm thick precast slab.	100.00	Sam		
h	25mm thick precast slab	100.00	Sqiii		
~		60.00	Sqm		
			TOTAL		
			TOTAL		

	SECTION-III BRICK WORK	<			
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
1	Supplying and construction brick work at any location using				
	best quality locally available bricks of compressive strength not				
	less than 75 Kg/ sqcm as defined in IS 1077 in cement sand				
	mortar (1:6) in foundation, superstructure, main hole duct drain				
	etc. including fiar cutting, wastage, bounding, plumbing line				
	level, flushing , racking joint, scaffolding and curing all as per				
	drg. and as per direction of the engineer, with all material tools				
	plant, labour complete. all up to floor V level.				
а	At and all depth below finished ground level.	50.00	Cum		
b	At and all heights above finished ground level	30.00	Cum		
2	Brick work at any location in 1:4 cement mortar in half brick				
	masonry with locally available bricks of compressive strength				
	not less than 75 Kg/ sqcm as defined in IS 1077 at any location				
	including supplying and placing in position 2nos 6mm dia m.s				
	bar at every third layer.	1500.00	Sqm		
3	Extra over item No. 1 above for forming circular hole in wall				
	for fixing exhaust fans including cement plaster 1:4 to inner				
	faces (approximately 300mm dia to 375mm. dia) at all	10.00	Nos		
4	level and heights. Providing and laying 75mm thick brick work in cement mortar	10.00	1103		
•	1:3(1 cement: 3 coarse sand) in plain or curved wall etc				
	complete in all respects including laying 1 no 6 mm bar at				
	every alternate layers in all floors and heights as per				
	drawing and specification complete. Reinforcement cost				
	included.)	10.00	Sqm		
			TOTAL		

	SECTION-IV WOOD WORK						
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.		
1	Providing & fixing in position at any location well dressed						
	naturally well seasoned sal wood of finished cross section						
	(65mm x 125mm), rebated frame to door including 2 coats of						
	hot bitumen applied to rear of frame in contact of masonary /						
	concrete surface complete in all respects as per the direction of	(-				
	Engineer.	6.00	Cum				
	Providing and fixing 35 mm thick flush door shutter , ISI						
	marked non decorative type solid block board construction						
	with frame of first class hard wood and well matched 3ply						
	commercial veneering with vertical or cross bands on both						
	faces of shutter finished as per specifications mentioned in		_				
	drawing . (Excluding the cost of fittings.) .	225.00	Sqm				
3	Providing and fixing wooden moulded beading to door						
	and window frames with iron screws, plugs and priming						
	coat on unexposed surface etc. complete. second class teak		D .				
	wood 50x20 mm.	525.00	Rmt				
	Providing 40x5 mm flat iron hold fast 40 cm long including						
	fixing to frame with 10 mm diameter bolts, nuts and wooden						
	plugs and embeddings in cement concrete block 30x10x15 cm						
	1:3: 6mix(1 cement: 3 coarse sand:6 graded stone aggregate						
	20mm nominal size).	200.00	Each				
5	Providing and fixing S.S butt hinges with necessary						
	screws etc Complete 125 x 65 x 2.5 mm (heavy type) IS						
	12817 marked welded to door frame where required.	725.00	Each				
6	Providing and fixing 50 mm bright finished stainless						
	steel cup board or ward robe knob with necessary						
	steel cup board of ward tobe knob with necessary						
	screws (best make of approved quality).	10.00	Each				
7	Providing and fixing stainless steel handles 150 mm						
	x16 mm conforming to IS: 4992 with necessary screws.						
	etc complete.	1500.00	Nos				
8	Providing and fixing 75mm special quality bright finished						
	stainless steel cupboard or wardrobe locks with four						
	levers including necessary screws etc. complete (best						
	make of approved quality.)	6.00	Each				

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
9	Providing and fixing bright finished alluminium hanging				
	type floor double door stopper with necessary screws etc.				
	Complete	200.00	Each		
10	Providing and fixing IS3564 marked Aluminium die cast				
	body /extruded section body tubular type universal				
	hydraulic door closer with necessary accessories and				
	screws etc complete.	3.00	Each		
11	Providing and fixing stainless steel tower bolt with				
	necessary screws etc. complete				
	150 x 10 mm	1400.00			
	300 x 10 mm	400.00	Each		
12	Providing and fixing bright finished brass 100mm				
	Mortise latch and lock with six levers and a pair of				
	lever handles with necessary screws etc complete (Best				
	make of approved quality)	2.00	Each		
13	40mm dia. Rubber buffer fixed to wall with M.S. Screws.				
		200.00	Each		
14	Providing and fixing curtain rod 20 mm dia of 1.25 mm				
	thick made of chromium plated brass pipe with chrome				
	plated brass bruckets(2nos) wall with stainless steel				
	screw all complete.	400.00	Mtr		
15	Providing and fixing factory made UPVC door made of				
	UPVC extruded, section having an overall dimension, as				
	below (tolerence \pm 1mm) with all thickness 2mm \pm				
	0.2mm .Corners of the door frame to be jointed with				
	galvanized brackets and stainless steel screws, jointed				
	and mitred and plastic wilded. The hinge side vertical of				
	the frame reinforced by galvanised M.S tube of size				
	19mmx19mm and 1mm \pm 0.1mm wall thickness and 3				
	nos stainless steel hinges fixed to the frame complete				
	ů i				
	as per manufacture specification and direction of				
	Engineer in charge. Extruded section profile size 42x50mm				
	LAUUGU SECUUT PIUTIE SIZE 4283011111	250.00	Mtr		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
16	30mm thick factory made panel PVC door shutter consisting of				
	frame made out of M.S tubes of 19gauge thickness and size of				
	19mmx19mm for styles and 15mmx15mm for top and bottom				
	rail,M.S frame shall have a coat of steel primers of approved				
	make and manufacture .M.S frame covered with 5mm thick				
	head moulded PVC 'C' channel of size 30mm thickness,70mm				
	width out of which 50mm shall be flat and 20mm shall be				
	tapered in 45degree angle on either side forming styles and				
	5mm thick,95mm wide PVC sheet out of which 75mm shall be				
	flat and 20mm shall be tapered in 45degree on the inner side to				
	form top and bottom rail and 115mm wide PVCsheet on both				
	sides to form lock rail,top,bottom and lock rail shall be provided				
	either side of the panel.10mm (5mmx2mm)thick, 20mm wide				
	cross PVC sheet be provided as gap insert for top rail and				
	bottom rail ,panelling of 5mm thick both side PVC sheet be				
	provided as gap insert for top rail and bottom rail ,panelling of				
	5mm thick both side PVC sheet to be fitted in the M.S. frame				
	welded/sealed to the styles and rail with 7mm (5mm+2mm) thickx15mm wide PVC				
	sheet beading on inner side ,and joined together with solvent				
	cement adhesive. An additional 5mm thick PVC strip of 20mm				
	width is to be stuck on the interior side of the 'C' channel using				
	PVC solvent adhesive etc.complete as per direction of				
	Engineer-in-charge. Manufacturer's specification and drawing				
	(for W.C and bathroom door shutter.)	90.00	Sqm		
17	Renewing 4.0mm float glass in wooden Windows and Ventilaters as per drawing and designing complete to satisfaction of Engineer-in-Charge/Architect.Rate include cost				
	of glass ,glass fixing putty,nails etc.	382.00	Sqm		
	Providing and fixing wooden panelling for doors , windows &				
	clerestory windows (Area of opening for panel inserts				
	excluding portion inside grooves or rebates to be measured). Panelling for panneled shutters 25 mm				
	thick, kiln seasoned chemically treated second class hard (
	kasi, tentra, piasal) wood.	50.00	Sqm		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
19a	Removal of existing sal wood chaukatha forrepairing and				
	refixing (excluding cost of repair,holdfasts) complete including				
	making good the wall cuttings complete. (door / Window				
)ventilator) complete to satisfaction of Engineer-in-				
i	Charge / Architects . Doors with ventilaters	55.00	Fach		
	Windows with ventilaters	50.00			
	Removal of existing sal wood chaukatha including making good	50.00	Lacii		
2	the wall cuttings complete.(doors,windows&ventilaters)				
	handing over to department to satisfaction of engineer in				
	charge/Architect.	40.00	Fach		
20	Removal of existing wooden shutter for repairing and refixing	40.00	Lucii		
	excluding cost of repair but including cost of screws				
	necessarycomplete to satisfaction of Engineer - in -Charge /				
	Architects .				
	door shutters	160.00			
	window shutters ventilators	330.00			
	Providing all material and labour for repairing of panelled or	100.00	Each		
21	panelledand glazed shutterers for doors, windows and				
	clerestorey windows usingkiln seasoned and				
	chemically treated second class hard (Kasi, Tentra piasal				
) wood 40mm thickshutter frame .(panelling will be paid		-		
	for separately)	3.00	Cum		
22	Providing and fixing stainless door (Aldrop) 300mm x				
	150mm x 16mm	192.00	Each		
23	Providing all material and labour for repairing existing				
	door, window chaukatha by removing the damaged				
	members and replaceing suitable member from existing				
	chaukatha after minor repairing complete fixing in position				
	including two coats of wood preservative to rear of frame				
	in contact with masonry & concrete surface (IS 12896 :				
	1990)	55.00	Each		
		00.00	Luon		
			TOTAL		

	SECTION-V STEEL WORK				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1	Providing & fixing pressed steel door frames conforming to				
	4351 manufactured from commercial mild steel sheet of				
	1.25mm thickness including hinges ,jambs,lock jamb,bead and				
	if required angle threshold of mild steel angle section of				
	50x25mm or base tie of 1.25mm pressed mild steel welded or				
	rigidly fixed together by mechanical means adjustable lugs				
	with split end tail to each jamb including steel butt hinges				
	2.5mm thick with motar gards ,lock strike plate and shock				
	absorbers as specified and applying a coat of approved steel				
	primer after pre-treatment of the surface as directed by				
	Engineer in charge.	(00.00	Dat		
	Profile 'B' Confirming IS 4351 Providing and fixing ISI marked steel glazed doors, Windows	600.00	RMI		
Z					
	and ventilators of standard rolled steel section as per IS 1038				
	with Z or L section joints mitred and welded with 15x3mm lugs,				
	10 cm. Long, embedded in cement concrete blocks 15 x 10 x				
	10 cm Of 1:3:6 (1cement : 3 coarse sand : 6 graded				
	aggregate20mm nominal size) or with wooden plugs and				
	screws or rawl plug and screws or with fixing clips or with				
	bolts and nuts as required, including providing and fixing of				
	4mm thick glass panes plain/pin headed with glazing clips &				
	special metal sash putty of approved make complete ,				
	including two point nose handle of approved pattern with				
	applying priming coat of approved steel primer, and also				
	including oxidized M.S casement stays (straight peg type)				
	with necessary screws etc(300mm weighing not less than 200				
	gms.)all complete as per direction of engineer in charge				
	Windows- side hung.	20.00	Sqm		
3	Providing and fixing M.S grill of required pattern in frames of				
	windows etc.with M.S flat ,square or round bars etc,all				
	complete. Fixed to steel windows by welding .				
	Fixed to steel windows by weiding .	650.00	Kg		
	Fixed to openings with rawl plugs screw etc.		0		
		350.00	Kg		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
4	Supplying, fitting and fixing of Stainless steel of 316				
	grade in hand railing using 50mm dia of 2mm thick				
	circular pipe with Balustrade of size 32mm x 32mm				
	solidsquare bar @ 0.90mtr. C/C and square bar bracing				
	of size 32mm x 32mm in stair case as per approved				
	design and specification, buffing, polishing etc with cost,				
	conveyance, taxes of all materials, labour, T&P etc.				
	required for the complete in all respect. (Cost includes				
	S.S. railing only ,cost of balustrads will be paid extra)				
	only length of railing will be taken for payment.	40.00	Mtr		
5	Providing & fixing in position collapsible steel shutters with				
	vertical channels 20x10x2mm and braced with flat iron				
	diagonals 20 x 5 mm size with top and bottom rail of T-iron 40 x $\frac{1}{2}$				
	40 x 6mm with 40mm dia. Steel pulleys complete with bolts,				
	nuts locking arrangement, stoppers handles, including applying	5.00	Sqm		
6	a priming coat of approved steel primer. Providing & fixing openable and foldable grill gates / shutter	5.00	Juli		
0	for entrances made of flats, square or round with M.S.				
	·				
	handle, locking system (sliding bolt and floor bolt), necessary				
	screws and hinges, fixed to walls by welding with 15x3mm				
	lugs, 10cms long in P.C.C.1:3:6(1 cement:3 coarse sand : 6				
	graded stone aggregate20 mm nominal size), necessary nuts				
	& M.S. parliament hinge or pivots as required complete				
	including applying priming coat of approved steel primer.	600.00	Kg		

	SECTION-VI FLOORING				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
1	cement concrete flooring 1:2:4 (1 cement:2 coarse sand :				
	4 graded stone aggregate) finished with a floating coat of neat cement slurry, but excluding the cost of nosing of				
	steps and cost of glass strip fixing , complete 40mm thick				
	with 20 mm nominal size stone aggregate.	20.00	Sqm		
2	Cement plaster skirting (up to 30 cm height) with cement				
	mortar 1:4 (1 cement: 4 coarse sand) finished with a floating	5.00			
	coat of neat cement (18 mm thick).	5.00	Sqm		
3	Supplying, laying and fixing anti-skid tiles (300mm x 300mm) size first quality confirming to IS 15622 in toilet floor heights,				
	to floor surface conforming to rawings and designs set in				
	20mm thick cement mortar of proportion 1:4 to proper line and				
	slope including cutting to required size and shape and fixing at				
	corners etc. and the joints are to be properly finished with				
	epoxy grout of matching colour and curing complete with cost				
	of all labour, materials, taxes, T&P, conveyance etc. as directed by the Engineer. (all colours)Minimum Basic cost of tile				
	Rs.400/sqm.	325.00	Sqm		
4	Providing & fixing ceramic glazed tile (300x200mm) sizefirst				
	quality confirming to IS :15622 of approved shade & quality to				
	dado at all heights over a base course of 12mm thick cement				
	mortar (1cement : 3 coarse sand) jointing with grey cement				
	slurry @3.3kg per sqm. joints filled with epoxy grouting of				
	matching colour and approved manufacture etc. as specified &				
	directed laid to proper line and plumb, cutting in required size				
	to corners, cost includes all labours, materials, T & P, lead,				
	royalty, tax, curing etc. complete in all respects as per direction				
	of Engineer(any colour excluding bottlegreen,burgund&black				
	colour). Minimum Basic cost of tile =Rs 35.00/ sift	615.00	Sqm		
5 a)	Kota stone slab flooring over 25 mm thick C.M. 1:4 (1				
,	Cement : 4 Coarse sand) base and jointed with grey				
	cement slurry mixed with pigment to match the including				
	rubbing and polishing complete20 mm minimum thick. (550				
	mm x 550 mmx25mm minimum thick.	650.00	Sqm		
b)	Kota stone in skirting/dado over 12mm C.M.(1:3)	100.00	Sqm		
6	Kota stone slabs 25mm thick in risers and treads of steps				
	on 20mm (average) thick cement mortar 1: 3(1cement :				
	3coarse sand) and jointed with grey cement slurry mixed with				
	pigment to match the shade of the slabs, including rubbing &				
	polishing complete Single piece of size1800mm x 300mm and				
	1800 mm x150mm or less).	107.00	Sqm		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
7	Supplying & Fixing concrete designer's tile of ultra make polka shade over 20mm thick cement mortar (1 cement : 4 coarse sand) including pointing the joints with white cement and matched pigment in ratio (1:1) complete in all respect including				
	all material, labour, tool plant, tax, lead etc. as per the direction of Engineer in charge.	10.00	Sqm		
8	Providing and fixing 40 mm wide and 4 mm thick plain glass strips in joints of flooring with cement mortar 1:3 complete in all respects as per drawing.	10.00	Mtr		
9	Providing & laying minim. 16 to 18mm thick plain marble strip border of approved design & quality laid in conjunction with kota stone flooring over a bed of 20mm(minimum) thick sand cement mortar 1:4 (1 cement: 4coarse sand) including pointing with white cement mortar 1:2(1cement : 2marble dust) / (adding pigment where required) rubbing & polishing complete as per pattern shown in drawings and direction complete in all respects. Approx 50mm to 100mm wide border.				
a)	Rajnagar white plain marble	65.00	Sqm		
11	Supplying , fixing vitrified tile in flooring of size 600mm x600mm, 10mm thick water absorption less than 0.08% confirming to IS :15622 of approved colour & make at all heights laid over cement mortar 20mm thick of proportion (1 cement : 4 coarse sand). The joints shall be filled with grout matching the colour of tile .Cost includes all labour, material, Tools plants, curing etc. complete in all respects as per direction of Engineer.(glossy/mat finish) Supplying fixing vitrified tile in skirting / dado using 600mm x 600mm, 10mm thick tile, water absorption less than 0.08% confirming to IS :15622 of approved colour & make at all heights laid over cement mortar 12mm thick of proportion (1 cement : 3 coarse sand). The joints shall be filled with grout of matching colour of tile .Cost includes all labour, material, Tools plants ,curing etc. complete in all respects as per direction of Engineer.(glossy/mat finish)	3000.00	Sqm		
12	Extra for prefinished nosing in tread of steps	500.00			
			TOTAL		

	SECTION-VII PLASTERING				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
	Inside plaster:-Providing 20mm thick cement plaster at any location in cement sand mortar proportion (1 cement: 6 coarse sand) after racking out of joints, roughening the concrete surface, filling portrayed surface, fixing wire mesh 200mm wide in case of concrete & brick work joints such that half on each surface fixed by help of nails cost includes of all materials, labour, lead, royalty, T & P, scaffolding, curing etc. complete in				
	all respect as per the direction of Engineer.	4000.00	Sqm		
	External plaster:-Cement plaster in two coats-18mm CP in two coats under layer 12mm CP 1:5 (1 cement: 5 coarse sand) & top layer 6mm thick CP (1:3) (1cement: 3 coarse sand) at any location finished rough with sponge after racking out joints, roughening the concrete surface, filling portrayed surface, fixing wire mesh 200mm wide in case of concrete & brick work joints such that half on each surface fixed by help of nails cost includes of all materials, labour lead royalty T & P scaffolding labour, lead, royalty, T & P, scaffolding, curing, etc. complete in all respect as per the direction of Engineer . (Recron 3S @ 125gm / 50Kg of cement to be added for preparing cement mortar) Payment will be made after producing invoice of the	250.00	Sam		
	polyester construction fiber. Providing 10mm thick plaster at any location cement plaster in	350.00	Sqm		
	cement sand mortar in proportion (1 cement : 4 fine sand) to ceiling of roof, beams, columns , chajja, soffit of stair case etc. after roughening the surface by proper chiseling ,surface preparation, filling portrayed surface etc. cost includes of all materials, labour, lead, royalty, T & P, scaffolding, curing etc. complete in all respect as per the direction of Engineer .(Recron 3S @ 125gm / 50Kg of cement to be added for preparing cement mortar) Payment will be made after				
	producing invoice of the polyester construction fiber.	525.00	Sqm		
5	Providing and forming drip course of 30 mm wide x 12 mm. Projection in plaster to soffit of projected slab like chajja etc. in all floors at edges with cement mortar 1 : 3 complete as directed for completion of work . Providing & mixing integral water proofing compound confirming to IS 2645, to the compart plaster work as per	100.00	Per bag of		
	confirming to IS -2645 to the cement plaster work as per		50kg cement		
	manufacturers Specification. (payment will be made after	90.00	used in the		
	producing invoice of materials).	90.00	TOTAL	<u> </u>	

	SECTION-VI ALLUMINIUM W				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1	Providing and fixing powder coated (50micron thick mat /satin				
	finish) aluminum windows, ventilators of required colour				
	using extruded sections of 34 series conforming to IS : 733				
	and IS : 1285, fixed with rawl plugs and screws etc. at all				
	levels including the cost of coupling members between				
	windows and necessary fittings viz. Aluminum handles friction				
	hinges etc .including providing and fixing 5mm. thick clear				
	/obscured float glass panes gaskets, glazing beads and				
	sealing joints all-round on both faces between work / lintel				
	and windows with silicon sealants of approved make provision				
	for fixing glass panes from inside and EPDM / Neoprene				
	weather seats etc all as per drawing at all levels and heights.				
i)	Fixed (Overall portion treated as fixed.)	5.00	Sqm		
ii)	Extra over above for (extra rate admissible for the				
	openable portion only): side hung shutters	20.00	Sqm		
2	Providing and fixing twin style door complete with fixed				
	glazed portion manufactured from Bronze or any other				
	approved colour anodised(50 micron thickness) extruded				
	aluminum alloy section complete with 5 mm thick clear float				
	glass for fixed portions, Neoprene dry set glazing gasket,				
	snap in beveled metal glazing strips on both sides, top and				
	bottom styles of extruded aluminum alloy sections of special				
	design for twin style door, 12 mm thick plate glass for doors,				
	necessary hardware fixtures viz. double action floor spring,				
	mortise lock flush bolt, chromium plated brass tubular				
	handle as per drawing on both faces all complete at all				
	levels and heights.				
i)	Fixed portion	10.00	Sqm		
ii)	Openable portion	10.00	Sqm		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
3	Providing and Fixing Structural Glazing with provision for				
	opening (top hung) as per detailed drawing at any location				
	fabricated from roll formed sections made of galvanized steel				
	colour coated/power coated (Base Steel as per IS 513 'D'				
	qualitycoated (Base Steel as per IS 513 D quality galvanized				
	thickness of 0.72mm. The Glass holding section made of 304				
	grade stainless steel of 0.6mm thick. CRCA sections with				
	Polyurethane Coating are to be used as stiffeners inside the				
	CCS section as per the design requirement. Paint				
	Specifications : Coated Sections should be with Primer Coat of				
	Epoxy Primer of 5-7 microns thick, finish painted with a				
	Polyester Paint of 12-16 microns thick and back coated with				
	Alkyd backer of 5-7 microns, or Powder Coated with pure				
	Polyester Powder up to 50-60 microns thick. Dimensions of				
	Sections :The sections are to be of 33x58 mm or 50x100 mm				
	for frame verticals, 33x59 mm for frame horizontals, section for				
	reinforcement should be of 31x55 mm / 48x98 mm (CRCA).				
	Glass holding section should be of 32.5x37 mm for top and bottom grids, in between should be of 32.5 x 18mm Fixing Details : The sections are to be cut to length, joined by means of powder coated CRCA brackets. The above Frame should be fixed to brick/ concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm long screws into the caps through frames. Glazing: Glass of 6mm thick one side reflective of approved make & colour to be fixed with the help of sealant. (Only finished area will be taken in account for payment)				
		10.00	Sqm		
			TOTAL		

	SECTION-IX FINISHING						
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.		
1	Providing and laying white cement based wall putty of 1.5mm thickness over a plastered surface to prepare the surface even and smooth complete (Birla, JK, Sika).	3180.00	Sqm				
2	White washing with lime to give an even shade (two coats) mixed with approved adhesive complete to	44400.00	0				
3	the satisfaction of engineer-in-charge Painting two and more coats at any location with Acrylic	11100.00	Sqm				
	distemper of Asian/ Nerolac , of approved shade to get an even shade over plastered wall & ceilings over one coat						
	of primer as per manufacturers specification at any location cost includes all material ,repairing cracks,						
	scaffolding , lead, T&P etc. complete in all respect as per the direction of the Engineer , at all heights and any						
4	location of new work. Applying one coat of cement primer of approved quality	4200.00	Sqm				
5	and manufacture on wall surface. Finishing walls with water proofing cement paint of	5300.00	Sqm				
	approved brand & manufacture and of required make to give an even shade new work (three coats) @ 3.84 Kg						
	/10 Sqm(snowcem plus or equivalent complete up to the	50.00	C				
6	satisfaction of Engineer-in-charge. Applying priming coat with ready mixed zinc chromate yellow primer of proved brand and manufacture on steel /	50.00	Sqm				
7	galvanised steel works. Applying ready mixed pink or grey primer of approved	350.00	Sqm				
	and manufacture on wood work (hard and soft wood)	350.00	Sqm				
8	Painting with ready mixed synthetic enamel paint of approved brand manufacture in all shades to give an						
2	even shade. All complete up to the satisfaction of engineer in charge.	350.00	Sam				
	steel work two coats) wall surface two coats)	1200.00	•				
c)	wood work(two coats)	690.00					

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
9	Providing and applying two coats of premium quality				
	exterior acrylic emulsion paint 'weather shield max' of ICI				
	India Ltd./Apex Ultima or equivalent of approved shade over				
	a coat of approved primer of same manufacturer at all levels				
10	including sand papering, cleaning and preparation of surface. Providing and applying Acrylic emulsion paint (two	4060.00	Sqm		
	coats complete to satisfaction of engineer in-charge) of				
	approved brand and manufacturer over a coat of				
	primer as required to wall ceiling etc. all complete				
11	in all floors and heights complete. Painting (two or more coats) on rain water soil and vent	500.00	Sqm		
	pipes and fittings with Synthetic enamail paints of				
	approved brand and manufacture and required colour				
	over a priming coat approved steel primer on new work.				
	100mm dia.pipe	270.00	Rm		
				TOTAL	

	SECTION-X WATERPROOFI				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1a	Providing and applying SIKA TOP SEAL107 hi (priming coat with 0.01kg/sqm &two coats using 2.5kg/sqm using glass fiber as intermediate layer between two coats) in terrace and after making the surface free from loose particles, oil, grease, or any other contaminants by using wire brush, acid wash and water				
1b)	jetting . The whole treatment must be continued upto a height of 300mm of parapet wall from roof slab. Providing and laying screed concrete on the top of the roof in 1 : 2 : 4 (1 cement:2 sand :4 stone chips 10mm down grade) with water proofing admixture Conforming to IS:2645, and crack resistance fiber like RECRON 3S equivalent with slope of 1: 100and necessary hollering as per direction of Engineer- in - charge.(minimum thickness of 75mm) up to 300mm height of	2300.00	Sqm		
<u>)</u>	parapetwall.	2300.00	Sqm		
Z	Providing and Filling the Expansion joint with joint sealing compound of polyeurathane based or equivalent including a backup material like Thermocole/Celatex board inside the groove of expansion joints. The width to depth ratio of sealant				
	should be 2:1	100.0	Rmt		
3	Providing and applying SIKA TOP SEAL109 hi (priming coat with 0.01kg/sqm &two coats using 2.5kg/sqm using glass fiber as intermediate layer between two coats.) in over R.C.C sunken slab of toilet immediately when concrete is still green (after two days of casting of roof) covered with 12mm thick cement plaster (1:4) admixed with integral water proofing liquid sika plastocrete super confirming to IS 2645. The hole treatment should continue up to height of 600mm above toilet floor level.	325.00			
	Notes-All the water profing work should be carried				
	out through specilised application agency of sika or				
	equivalent)				

	SECTION-XI DISMANTLING W				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1	Dismantling of existing plinth protection/AS flooring in all				
	floors including costs of all labour T.P complete with				
	removal of debris from site up to a lead of 100mtr &				
	stacking the necessary materials as per instruction of site				
	Engineer-in-charge/Architect.	1200.00	Sqm.		
2	Dismantling of existing R.C.C work at all height in all		- 1		
	floors including cost of all labour T & P complete with				
	removal of debris from site up to lead of 100mtr and				
	stacking the necessary materials as per instruction of site				
	Engineer-in-charge/Architect	10.00	Cum.		
3	Dismanting of existing plaster, raking out the joints in all				
	floors including cost of all scaffolding T & P complete with				
	removal of debris from site up to a lead of 100mtr and				
	stacking the necessary materials.	1750.00	Sqm.		
4	Dismantling of existing brick work in all floors including				
	costs of all labour T.P complete with removal of debris				
	from site up to a lead of 100mtr & stacking the necessary				
	materials as per instruction of site Engineer-in-				
	charge/Architect.	10.00	Cum.		
5	Transportations of earth debris construction materials by				
	mechanical means including loading unloading & leveling				
	at specific location up to lead 5Km beyond initial lead.	200.00	Cum.		
6	Dismantling of existing P.C.C (1:4:8) in all floors including				
	cost of all scaffolding & labour T & P complete with				
	removal of debris from site up to lead of 100 mtr and				
	stacking the necessary materials as per instruction of site				
	Engineer/Architect.	18.00	Cum.		
7					
	with wire brush for application of new paint complete to	18420	Sqm.		
	the satisfaction of engineer-in-charge/Architect				

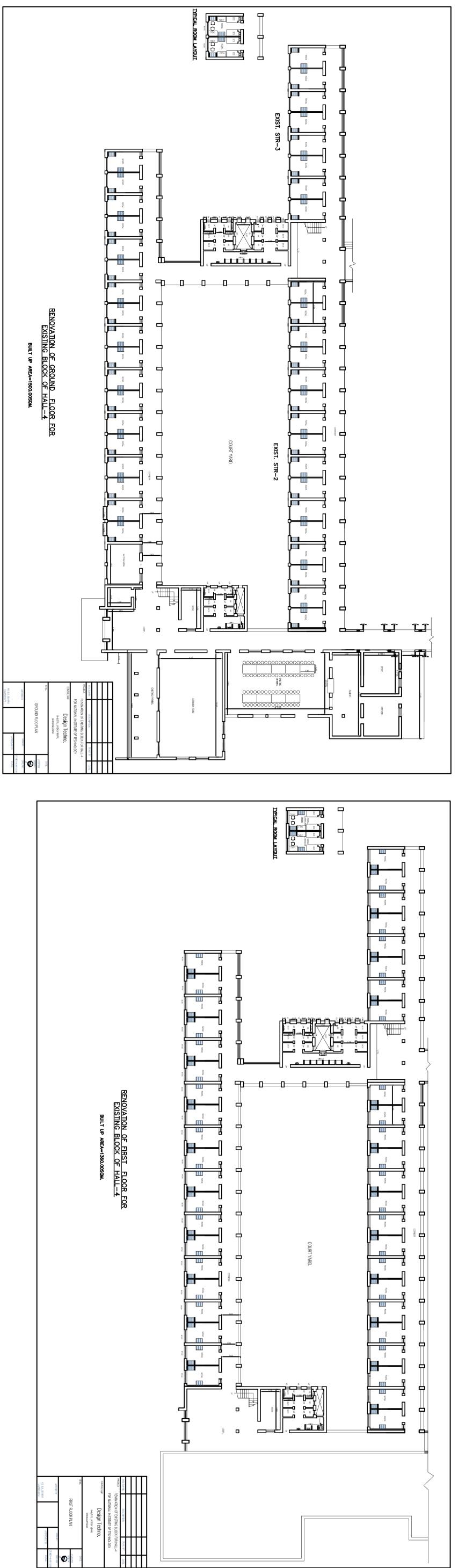
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
8	Removal of old paints from wood/iron work by using sand				
	paper to make the surface ready to for application of new				
	paint complete to the satisfaction of engineer-in-	2054.00	Sam		
9	charge/Architect Removal of existing iron doors windows grills etc.	2034.00	Sqm.		
	complete including cost of all labour & material ,making				
	good the damages.	100.00	Each		
10	Dismantling of existing tile flooring & dado in all floors				
	including cost of all scaffolding & labour T & P complete				
	with removal of debris from site up to lead of 100 mtr and				
	stacking the necessary materials as per instruction of site				
	Engineer/Architect.	1000.00	Sqm.		

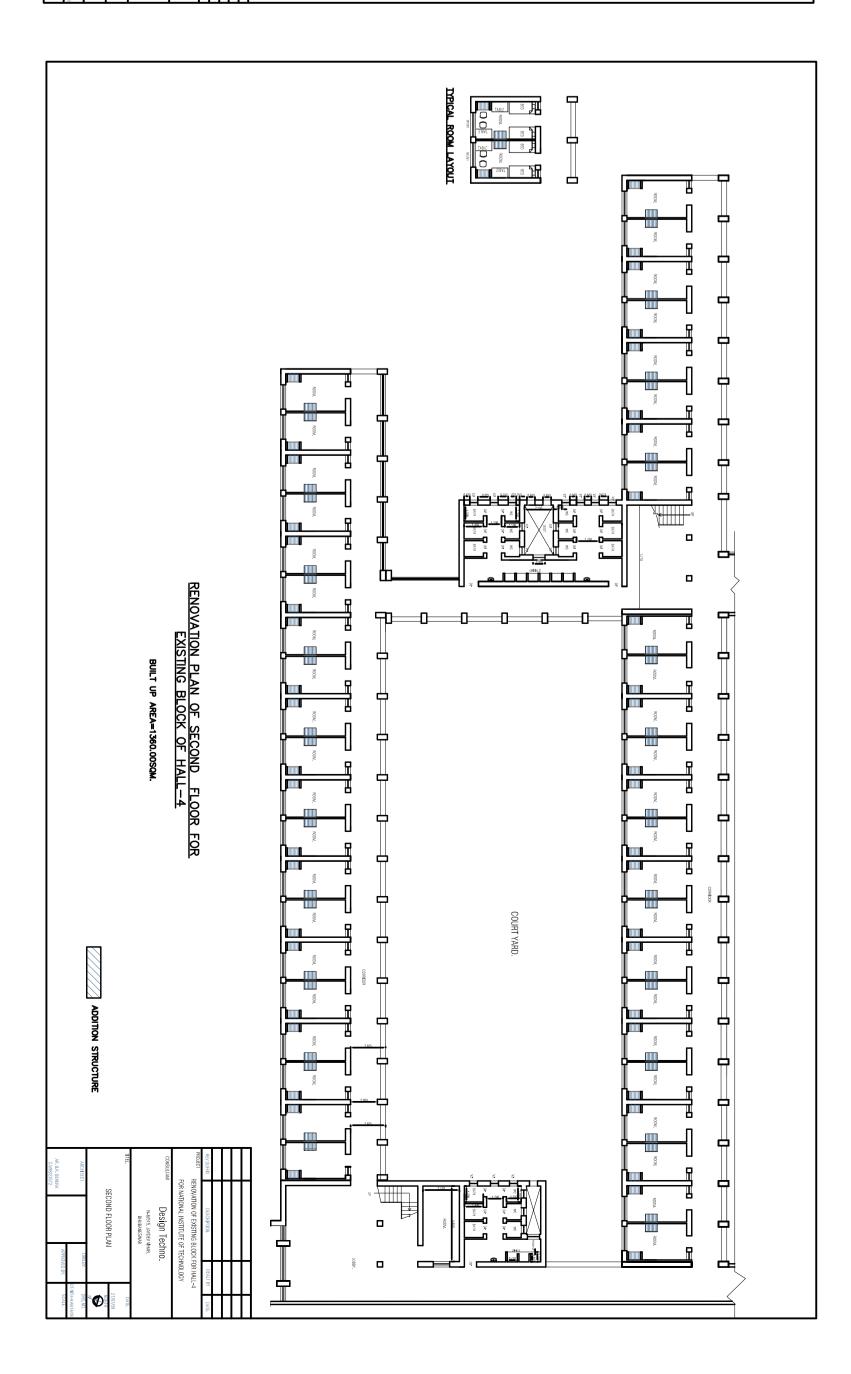
Approved List Manufacturers/ Brand for Civil Works

Approved List to be used in works shall conform to Indian Standards Specification as published from time to time (and in the absence thereof as approved by Engineer – in –charge) in general the mode of measurement of Civil engineering works shall be guided by I.S. I CODE No- 1964 (Revised) for Indian standard Method of measurement of building work.

	DECODIDION	I.S CODE	APPROVED
SL.NO	DESCRIPTION	I.S CODE	MAKE
1	Cement : Ordinary port land cement 43 grade	269 :1967	ACL
2	Steel :		
	a) mild steel :	432 (Part 1) 1982	TATA/SAIL
	b) High strength deformed steel:	1786: 1985	TATA/SAIL
3	Sand:	383: 193 or 515 (Revised)	
4	Coarse Aggregate	383.00	
5	Lime:	792 :1973	
6	Brick: common brunt building bricks.	1077:1992 (Fifth Revision)	
7	Light Gauge structural steel section	811:1987	
8	Collapsible gate:	10521 :1983	
9	Marble:Block,slab,and tile	1130:1969	
10	Ceramic tile/Glazed tile:		Euro/Kajaria/ Nitco/Somany/Regency
11	Vitrified porcelain tile		Euro/Kajaria/ Nitco/Somany/RAK
12	Vinyl flooring		Tuskar/polyfioor Armstrong
13	Aluminum section : For door window	1984 : 1961	Indal/Beco/OEL
14	Wooden Flush door:	2202 (part2): 1983	Greenply/Century/Aeon
15	Cement based paint:		Snowcemplus/Durocem
16	Acrylic Emulsion		ICI/Berger/Asian Paints
17	Distemper		ICI/Berger/Asian Paints
18	Synthetic Enamel		ICI/Berger/Asian Paints
19	Water proofing Admixture	2645 and 9103	Sika/Chowksy/Laticrete
20	Glass/Glazing glass		Modiguard/saintgobain
21	Designer concrete tile.		Ultra / Multiwyn /Eurocon

	Specification of Materials					
1	Sanitary Fitting : Hindware/ParryWare					
2	CI pipe & fitting :3989 of Jayaswals/NECO Ltd/Similar approved					
3	C.P fitting :Jaquar/ESSESS/GEM brand					
4	G.I Pipes:Tata make (medium quality)					
5	G.i. Fittings "R"/HB/KS brand with ISI marked					
6	G.M Valves : Leader/zoloto brand					
7	SW pipes :Sonall/Hind brand					
8	CI Cover &frame: Local brand /Asian Paint					
9	CI Cover &frame: Local brand /Asian Paint					
10	Kitchen Sink: Nirali or similar approved.					
11	Mirror: Golden flush or similar approved.					
12	Sluice Valve: Upadhya or similar approved.					
13	Specification for Materials, Measurement & Workmanship as per CPWD & BSI					





BILL OF QUANTITES FOR	
CONSTRUCTION OF PROPOSED	
DINNING BLOCKS FOR HALL NO 4	- 5
FOR	
NATIONAL INSTITUTE OF TECHNOL	OGY.
ROURKELA.	
	CONSULTANT.
	Design Techno
	PLOT NO-N-6 /515, Jyadev bihar
	Bhubaneswar-12
	DHUJAHESWAI-12

ABSTRACT							
SL.NO		ESTIMATE COST					
SECTION-I							
EARTHWORK IN EXCAVATION	Rs.						
SECTION-II							
PLAIN/REINFORCED CEMENT CONCRETE WORK	Rs.						
SECTION-III	_						
BRICK WORK	Rs.						
SECTION-IV	Da						
WOOD WORK	Rs.						
SECTION-V	De						
STEEL WORK SECTION-VI	Rs.						
FLOORING	Rs.						
SECTION-VII							
PLASTERING	Rs.						
SECTION-VIII							
ALLUMINIUM WORK	Rs.						
SECTION-IX	1(3)						
FINISHING	Rs.						
SECTION-X							
WATER PROOFING	Rs.						
SANITARY & PLUMBING ,	VATER SUPPL	Y					
SECTION-I							
SANITARY & PLUMBING WORK	Rs.						
SECTION-II							
WATER SUPPLY	Rs.						
SECTION-III	Rs.						
DRAINAGE							
TOTAL	Rs.						
SAY	Rs.						

SECTION - I EARTHWORK IN EXCAVATION						
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.	
1	Surface dressing of the ground including, removing					
	vegetation and inequalities not exceeding 15cm depth and					
	disposal of rubbish , lead upto 50mtr & lift upto 1.5 mtr.In all					
	kinds of soil.	2000.00	100Sqm			
2	Earth work in excavation by mechanical means(Hydraulic		·			
	excavator)/manual means over areas (Exceedeing 30Cm in					
	depth 1.5m in width as well as 10sq.M on plan)including					
	disposal of excavted earth lead upto 50m and lift upto 1.5m					
	disposed earth to be levelled and neatly dressed(All kind of soil.)	2070.00	Cum			
3	· ·	2070.00	Cum			
	rocks i.e. Disintegrated rock (blasting prohibited) by crowbar,					
	pick axe etc. within initial lift 1.50 mtr , rough dressing to the					
	sides of trench , getting out the excavated rock & disposal of					
	surplus excavated material within 50 mtr of lead including					
	cost of dewatering, shoring, labour T & P tax etc complete in					
	all respect as per the direction of the Engineer -in-charge.	850.00	Cum			
4(a)	Extra for disposal of earth for a lead of 50mtr or part there of.					
h	Beyond 50mtr and upto 100mtr.	10.00	Cum			
	·	10.00	Cum			
5	Extra for every additional lift of 1.5m or part there of.					
а	All kind of soil.	380.00	Cum			
b	Ordinary or hard soil.	250.00	Cum			
5	Back filling in all positions and height and descent in					
	foundation pits, pipe trench sewer line around foundation and					
	structure in plinth etc. with approved excavated material					
	obtained from a lead of 50mtr & lift 1.5mtr.including					
	reclaiming from spoils heaps at all height or reclaiming from					
	dumps at all depth cost includes transporting, depositing,					
	filling, in layers of 200mm thick dressing watering and	1260.00	Cum			
6	ramming complete with tools , plant & labour. Plinth filling in layers of 150mm thick good quality river sand	1200.00	Jun			
	including watering and consolidating by mechanical means					
	as per direction of engineer.	1100.00	Cum			

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
7	Providing and injecting Chemical emulsion chloropyrophos				
	20% E.C./Biflex for pre-constructional anti-termite				
	treatment and creating chemical barriers as per I.S. 6313				
	Part-C (of latest edition) in wall trenches, foundation, top				
	surface of plinth, filling, junction of walls and floors along the				
	external perimeter of the building, surrounding of pipes etc				
	complete . The work shall be execute through approved				
	agency/agencies and with guarantee of 10 years. The rate				
	shall be as per plinth area including as directed below.				
	a) Using Chemical Emulsion @ 7.5 Ltr/sqm for				
	i. Back filling immediate contact with masonry foundation.				
	masonry foundation.				
	ii. Junction of walls and floors.				
	iii External perimeter of building.				
	b) Using Chemical Emulsion @ 5.0 Ltr/sqm				
	i. Bottom of side trenches.				
	ii. Top surface plinth filling.	2750.00	Sqm		
			TOTAL		

SECTION - II PLAIN/REINFORCED CEMENT CONCRETE WORK					
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1	Supplying, laying and compacting plain cement concrete of				
	following graded aggregate in all foundation, floor, roof				
	screening etc. and at all heights and depth above and below				
	finished plinth level to required levels, slope etc. including				
	curing but excluding the cost of shuttering all as per drawing				
	and direction of engineer, with all material, tools plant and				
а	labour. Below finished plinth level 1:4:8 with 40mm down graded				
u	aggregate.	400.00	Cum		
b	Above finished plinth level 1:2:4 with 20mm down graded				
	aggregate.	5.00	Cum		
2	Plinth protection:-Providing and making plinth protection				
	50mm thick of cement concrete 1:3:6 (1 cement :3 part				
	sand : 6 part 40mm down size aggregate) over 75mm thick				
	bed of dry brick ballast 40mm nominal size well rammed and				
	consolidated and grouted with fine sand including finishing	200.00	Sam		
3	the top smooth. Providing, laying in position nominal mix(1:1.25:2.5) cement	300.00	Sqm		
	concrete for reinforced cement concrete work including				
	carrying of concrete to site of laying but excluding cost of				
	centering, shuttering , reinforcement , including admixtures in				
	setting of concrete, improve workability without impairing				
	strength and durability as per the direction of Engineer in				
	charge, for all work up to floor V level.				
	R.C.C work as defined by the latest IS 456 in all members				
	like foundation, superstructure, slab, column, beam,				
	lintel,chajja,shelves,windows sills, facia, floor/roof slab, fins,				
	stair, footing, drains, encasing of pipe line etc. including				
	curing but excluding form work and reinforcement. All as per drawing and direction of engineer, all materials ,tools plant				
	and labour complete, in plumb line & level with plastering in				
	cement mortar 1 cement : 3 coarse sand at no extra cost as				
	required.				
а	Below finished plinth level (1:1.25:2.5) concrete with 20mm				
	down graded aggregate.	550.00	Cum		
b	Above finished plinth level (1:1.25:2.5) grade concrete with		_		
	20mm down graded aggregate.	1100.00	Cum		

	Sqm		
	Sqm		
100.00	Sqm		
25.00	Sam		
	- 1		
	M.T		
r o l l j j e l i j j e l i f	12000.00 t 1 100.00 25.00 , t t t t	2600.00 Sqm 12000.00 Sqm 12000.00 Sqm 100.00 Sqm 25.00 Sqm 25.00 Sqm 3 Sqm 4 Sqm 5 Sqm	2600.00 Sqm 12000.00 Sqm 100.00 Sqm 25.00 Sqm 25.00 Sqm 140.00 M.T

DESCRIPTIONS OF ITEM struction brick work at any location using available bricks of compressive strength g/ sqcm as defined in IS 1077 in cement in foundation, superstructure , main hole, ncluding fiar cutting, wastage, bounding, l, flushing , racking joint, scaffolding and lrg. and as per direction of the engineer, ols, plant, labour complete. all upto floor V		UNIT	RATE RS.	AMOUNT Rs.
available bricks of compressive strength g/ sqcm as defined in IS 1077 in cement in foundation, superstructure , main hole, ncluding fiar cutting, wastage, bounding, l, flushing , racking joint, scaffolding and lrg. and as per direction of the engineer, ols, plant, labour complete. all upto floor V				
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ols, plant, labour complete. all upto floor V				
low finished plinth level.				
	250.00	Cum		
bove finished plinth level				
location in 1:4 cement mortar in 115mm				
ly available bricks of compressive strength				
Kg/ sqcm as defined in IS 1077 at any				
supplying and placing of two Nos. 6mm				
ry third layer.		Sqm		
naust fans including cement plaster 1:4 to		Nos		
t: 3 coarse sand) in plain or curved wall				
I respects including laying 1 no 6 mm bar				
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	bove finished plinth level location in 1:4 cement mortar in 115mm ly available bricks of compressive strength Kg/ sqcm as defined in IS 1077 at any supplying and placing of two Nos. 6mm ry third layer . No. 1 above for forming circular hole in naust fans including cement plaster 1:4 to pproximately 300mm dia to 375mm. dia) hts. ng 75mm thick brick work in cement t: 3 coarse sand) in plain or curved wall	bove finished plinth level 1100.00 location in 1:4 cement mortar in 115mm 1100.00 ly available bricks of compressive strength Kg/ sqcm as defined in IS 1077 at any supplying and placing of two Nos. 6mm ry third layer . 100.00 No. 1 above for forming circular hole in naust fans including cement plaster 1:4 to pproximately 300mm dia to 375mm. dia) 10.00 hts. 10.00 ng 75mm thick brick work in cement 10.00 t: 3 coarse sand) in plain or curved wall 1 I respects including laying 1 no 6 mm bar ayers in all floors and heights as per fication complete.(Reinforcement cost	bove finished plinth level 1100.00 Cum location in 1:4 cement mortar in 115mm 1100.00 Cum ly available bricks of compressive strength Kg/ sqcm as defined in IS 1077 at any supplying and placing of two Nos. 6mm 100.00 Sqm ry third layer . 100.00 Sqm Sqm 100.00 Sqm No. 1 above for forming circular hole in naust fans including cement plaster 1:4 to pproximately 300mm dia to 375mm. dia) 10.00 Nos hts. 10.00 Nos Sqm 10.00 Nos ag 75mm thick brick work in cement t: 3 coarse sand) in plain or curved wall I respects including laying 1 no 6 mm bar ayers in all floors and heights as per State and the state at the	bove finished plinth level 1100.00 Cum location in 1:4 cement mortar in 115mm 1100.00 Cum ly available bricks of compressive strength Kg/ sqcm as defined in IS 1077 at any Supplying and placing of two Nos. 6mm ry third layer . 100.00 Sqm No. 1 above for forming circular hole in naust fans including cement plaster 1:4 to pproximately 300mm dia to 375mm. dia) 10.00 Nos ng 75mm thick brick work in cement 10.00 Nos Intersects including laying 1 no 6 mm bar ayers in all floors and heights as per 50.00 Sqm

	SECTION-IV				
	WOOD WORK				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1	Providing & fixing in position at any location well dressed				
	naturally well seasoned sal wood of finished cross section				
	(65mm x 125mm), rebated frame to door including 2 coats of				
	hot bitumen applied to rear of frame in contact of masonary /				
	concrete surface, all materials, labour, lead, royality, T & P				
		0.40	Cum		
	etc. complete in all respect as per the direction of Engineer. Providing and fixing 35 mm thick flush door shutter , ISI	0.40	Cum		
	marked non decorative type solid block board				
	construction with frame of first class hard wood and				
	well matched 3ply commercial veneering with vertical grains				
	or cross bands on both faces of shutter finished as per				
	specifications mentioned in drawing . (Excluding the cost of				
	fittings.).	60.00	Sqm		
	Providing and fixing wooden moulded beading to		·		
	door and window frames with iron screws, plugs and				
	priming coat on unexposed surface etc. complete.second				
	class teak wood 50x20 mm.	100.00	Rmt		
4	Providing 40x5 mm flat iron hold fast 40 cm long including				
	fixing to frame with 10 mm diameter bolts, nuts and wooden				
	plugs and embeddings in cement concrete block 30x10x15				
	cm 1:3: 6mix(1 cement: 3 coarse sand: 6 graded stone				
	aggregate 20mm nominal size).	150.00	Each		
	Providing and fixing bright finished IS 12817 marked S.S				
	butt hinges with necessary screws etc Complete 125 x				
	64 x 2.5 mm (heavy type) welded to door frame where				
	required (approved make and quality)	80.00	Each		
	Providing and fixing 50 mm bright finished stainless steel				
	cup board or ward robe knob with necessary screws (
	approved make and quality).	20.00	Each		
	Providing and fixing stainless steel handles 150 mm x16				
	mm conforming to IS: 4992 with necessary screws. etc	100.00	Nos		
	complete. Providing and fixing 75mm special quality bright finished	100.00	1105		
	stainless steel cupboard or wardrobe locks with four				
	levers including necessary screws etc. complete	20.00	Fach		
	Providing and fixing bright finished alluminium hanging type	20.00	Luch		
	floor double door stopper with necessary screws etc.				
	Complete	20.00	Each		
	Providing and fixing bright finished Brass hydraulic door	=			
	closer (Best make of approved quality) with necessary				
	accessories and screws etc.Complete	10.00	Each		
	Providing and fixing stainless steel tower bolt with				
	necessary screws etc. complete				
а	150 x10 mm	40.00	Each		
b	300 x 10 mm	50.00	Each		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
12	Providing and fixing bright finished stainless steel 100mm				
	Mortise latch and lock with six levers and a pair of				
	anodised (anodic coating) not less than grade AC10 as per				
	IS : 1868 aluminum lever handles with necessary screws				
	etc complete (Best make of approved quality)	4.00	Each		
13	40mm dia. Rubber buffer fixed to wall with m.s. Screws.	25.00	Fach		
14	Providing and fixing curtain rod 20 mm dia of 1.25 mm	20.00	20011		
	thick made of chromium plated stainless steel plate with				
	wooden brackets fixed to the wall with stainless steel screw				
	all complete.	300.00	Mtr		
15	Providing and fixing factory made UPVC door made of				
	UPVC extruded, section having an overall dimension, as				
	below (tolerence \pm 1mm) with all thickness 2mm \pm 0.2mm				
	.Corners of the door frame to be jointed with galvanized				
	brackets and stainless steel screws, jointed and mitred and				
	plastic wilded. The hinge side vertical of the frame reinforced				
	by galvanised M.S tube of size 19mmx19mm and 1mm \pm				
	0.1mm wall thickness and 3 nos stainless stell hinges fixed				
	to the frame complete as per manufacture specification and				
	direction of Engineer in charge.(Extruded section profile size				
	42x50mm)	20.00	Mtr		
16	Providing and fixing 30mm thick factory made panel PVC	20.00	IVIU		
	door shutter made of styles and rails of a UPVC hollow				
	section of size 30x60mm and thickness2mm \pm 0.2mm with				
	inbuilt edging on both sides. The styles and rails mitered and				
	jointed at the corners by means of M.S galvanised/plastic				
	brackets of size 75x220mm having wall thickness 1.0mm and stainless steel screws. The styles of the shutter reinforced by				
	inserting galvanised M.S tubes of size $20x20$ mm and 1mm \pm				
	0.1mm wall thickness.The lock rail made up of H section, a				
	UPVC hollow section of size 100x30mm and 2mm \pm 0.2mm				
	wall thickness fixed to the shutter styles by means of plastic				
	/galvanised M.S.U cleats.				
	The shutter frame filled with UPVC multichambered single				
	panel of size not less than 620mm ,having over all thickness				
	of 20mm and 1mm \pm 0.1mm wall thickness with 20mm panel				
	beading of suitable size/glass(4mm thick)/louver section				
	, louver frame of the suitable size the panels filled vertically				
	and tie bar at two places by inserting horizontally 6mm				
	galvanised M.S.rod and fastened with nutsand washers				
	complete as per manufacture's specification and direction of	00.00	Car		
	Engineer in charge.	20.00	Sqm		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
17	Providing and fixing double action hydraulic floor spring of				
	approved brand and manufacture IS 6315 marked for doors				
	including cost of cutting floors as required embedding in				
	floors and cover plates with brass pivots and single piece				
	M.S Sheet outer box with side plate etc.complete as per				
	direction of Engineer in charge.with S.S cover plate	10.00	Each		
18	Providing and fixing 10mm. thick polycarbonate twin wall				
	sheet fixed to M.S. frame work (for pyramidal atrium) at				
	terrace floor excluding cost of M.S. frame work but including				
	cost of M.S.fixing hooks, bolts,nuts,washers T&P complete in		_		
10	all respect as per drawing & design.	100.00	Sqm		
19	Providing and fixing stainlsteel aldrop of size 250x 16mm				
	fixed to wooden/pvc doors with necessary nuts and screws				
	etc complete	25.00	Each		
20	Providing and fixing 5.5mm plain glass fixed to wooden/steel				
	windows with necessary clip ,glass puty scaffolding etc				
	complete	20.00	Sqm		

	SECTION-V STEEL WORK							
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.			
1	Providing & fixing pressed steel door frames conforming to							
	4351 manufactured from commercial mild steel sheet of							
	1.25mm thickness including hinges ,jambs,lock jamb,bead							
	and if required angle threshold of mild steel angle section of							
	50x25mm or base tie of 1.25mm pressed mild steel welded							
	or rigidly fixed together by mechanical means adjustable							
	lugs with split end tail to each jamb including steel butt							
	hinges 2.5mm thick with motar gards ,lock strike plate and							
	shock absorbers as specified and applying a coat of							
	approved steel primer after pre-treatment of the surface as							
	directed by Engineer in charge.							
	Profile 'B' Confirming IS 4351	150.00	Rmt					
2	Providing and fixing ISI marked steel glazed doors,							
	Windows and ventilators of standard rolled steel section(as							
	per IS 1038 with Z or L section) joints mitred and welded with							
	15x3mm lugs, 10 cm. Long, embedded in cement concrete							
	blocks 15 x 10 x 10 cm of cement concrete 1:3:6 (1cement :							
	3 coarse sand : 6 graded aggregate20mm nominal size) or							
	with wooden plugs and screws or rawl plug and screws or							
	with fixing clips or with bolts and nuts as required,							
	including providing and fixing of 4mm thick glass panes							
	plain/pin headed with glazing clips & special metal sash putty							
	of approved make complete , including two point nose							
	handle of approved pattern with applying priming coat of							
	approved steel primer, and also including oxidized m.s							
	casement stays (straight peg type) with necessary screws							
	etc(300mm weighing not less than 200 gms.)all complete							
	excluding cost of metal beaing as per direction of engineer in							
	charge(Windows- side hung).	300.00	Sqm					
3	Providing and fixing M.S grill of required pattern in frames of							
	windows etc.with M.S flat ,square or round bars etc,all complete.							
	Fixed to steel windows by welding .							
	, , , , , , , , , , , , , , , , , , ,	600.00	Kg					
	Fixed to openings with rawl plugs screw etc.	400.00	Kg					
			5					

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
4	Supplying, fitting and fixing of Stainless steel of 316 grade in				
	hand railing using 50mm dia of 2mm thick circular pipe with				
	Balustrade of size 32mm x 32mm solidsquare bar @				
	0.90mtr. C/C and square bar bracing of size 32mm x 32mm				
	in stair case as per approved design and specification,				
	buffing, polishing etc with cost, conveyance, taxes of all				
	materials, labour, T&P etc. required for the complete in all				
	respect. (Cost includes S.S. railing only ,cost of balustrads				
	will be paid extra) only length of railing will be taken for				
	payment.	70.00	Mtr		
	5 51 1				
	with vertical channels 20x10x2mm and braced with flat iron				
	diagonals 20 x 5 mm size with top and bottom rail of T-iron				
	40 x 40 x 6mm with 40mm dia. Steel pulleys complete with				
	bolts, nuts locking arrangement, stoppers handles, including				
	applying a priming coat of approved steel primer. Providing & fixing openable and foldable grill gates /	10.00	Sqm		
	shutter for entrances made of flats, square or round with				
	m.s. handle, locking system (sliding bolt and floor bolt),				
	necessary screws and hinges, fixed to walls by welding with				
	15x3mm lugs, 10cms long in P.C.C.1:3:6(1 cement:3 coarse				
	sand : 6 graded stone aggregate20 mm nominal size),				
	necessary nuts & m.s. parliament hinge or pivots as				
	required complete including applying priming coat of				
	approved steel primer.	600.00	Kg		
	Supplying & fixing M.S. structural frame at any location made				
	of M.S. tubes as per detailed drawing & design cleaning with				
	sand paper,removing the iron bubbles, complete in all				
	respects with all labour, material ,fabrication charge, cost of				
	concrete, including applying priming coat of steel primer as				
	per direction of Engineer.	2000.00	Ka		

	SECTION-VI FLOORING			1	
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
1	cement concrete flooring 1:2:4 (1 cement:2 coarse sand				
	: 4 graded stone aggregate) finished with a floating coat				
	of neat cement slurry, but excluding the cost of nosing of				
	steps and cost of glass strip fixing , complete 40mm thick				
	with 20 mm nominal size stone aggregate.	1250.00	Sqm		
2	Cement plaster skirting (up to 30 cm height) with cement		I		
	mortar 1:4 (1 cement: 4 coarse sand) finished with a				
	floating coat of neat cement (18 mm thick).	65.00	Sqm		
3	Supplying, laying and fixing anti-skid tiles (300mm x 300mm)				
	size first quality confirming to IS15622 in toilet floors at all				
	heights, to floor surface conforming to drawings and designs				
	set in 20mm thick cement mortar of proportion 1:4 to proper				
	line and slope including cutting to required size and shape				
	and fixing at corners etc. and the joints are to be properly				
	finished with epoxy grout of matching colour and curing				
	complete with cost of all labour, materials, taxes, T&P,				
	conveyance etc. as directed by the Engineer.(All Colour)	50.00	0		
4	Basic cost of tile minimum Rs 400.00/ sqm. Providing & fixing ceramic glazed tile (300x200mm) size of	50.00	Sqm		
4	Kajaria make , confirming to IS :15622 of approved shade &				
	quality to dado at all heights over a base course of 12mm				
	thick cement mortar (1cement : 3 coarse sand) jointing with				
	grey cement slurry @3.3kg per sqm,pointing with epoxy				
	grout of matching colour and approved manufacture etc. as				
	specified & directed, laid to proper line and plumb, cutting in required size to corners, cost includes all labours, materials,				
	T & P, lead, royalty, tax, curing etc. complete in all respects				
	as per direction of Engineer . (Any colour excluding				
	bottlegreen,burgundy,black)Basic cost of tile minimum Rs				
	389.00/ sqm.	750.00	Sqm		
5 a)	Kota stone slab flooring over 25 mm thick C.M. 1:4 (
	1 Cement : 4 Coarse sand) base and jointed with grey cement slurry mixed with pigment to match the				
	including rubbing and polishing complete25 mm minimum				
	thick. (550 mm x 550 mmx25mm minimum thick, as per				
	design & direction of architect.	1100.00	Sqm		
b)	Kota stone in skirting/dado over 12mm C.M.(1:3)				
		50.00	Sqm		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
6a)	Kota stone slabs 25mm thick in risers and treads of steps on 20mm (average) thick cement mortar 1: 3(1cement : 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing & polishing complete(Single piece of size1800mm x				
6h)	300mm and 1800 mm x150mm). Extra for pre finished nosing in treads of steps.	100.00	Sqm		
		250.00	Mtr		
7	Supplying & Fixing concrete designer's tile of ultra make				
	polka shade over 20mm thick cement mortar (1 cement : 4				
	coarse sand) including pointing the joints with white cement				
	and matched pigment in ratio (1:1) complete in all respect				
	including all material, labour, tool plant, tax, lead etc. as per				
	the direction of Engineer in charge.	50.00	Sqm		
8	Providing and fixing 40 mm wide and 4 mm thick plain		•		
	glass strips in joints of flooring with cement mortar 1:3				
	complete in all respects as per drawing.	1000.00	Mtr		
9	Providing & laying minim. 16 to 18mm thick plain marble				
	strip border of approved design & quality laid in				
	conjunction with kota stone flooring over a bed of 20mm(
	minimum) thick sand cement mortar 1:4 (1 cement:				
	4coarse sand) including pointing with white cement mortar				
	1:2(1cement : 2marble dust) / (adding pigment where				
	required) rubbing & polishing complete as per pattern				
	shown in drawings and direction complete in all respects.				
	Approx 50mm to 100mm wide border.				
a)	Rajnagar white plain marble	100.00	0		
10	Supplying , fixing vitrified tile in flooring of size 600mm	100.00	Sqm		
	x600mm, 10mm thick water absorption less than 0.08% confirming to IS :15622 of approved colour & make (RAK/Naveen/Kajaria) at all heights laid over cement mortar 20mm thick of proportion (1 cement : 4 coarse sand). The				
	joints shall be filled with grout matching the colour of tile .Cost includes all labour, material, Tools plants, curing etc. complete in all respects as per direction of Engineer. (Recron 3S @ 125gm to be added 50Kg of cement) Payment will be made after producing invoice of the polyester construction fibre. Basic cost of tile= minimum Rs 79.00/sft				
	(Glossy/ mattfinish).	1200.00	Sqm		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
11	Supplying fixing vitrified tile in skirting / dado using 600mm x				
	600mm, 10mm thick tile, water absorption less than 0.08%				
	confirming to IS :15622 of approved colour & make (
	Rak/Naveen/Kajaria) at all heights laid over cement mortar				
	12mm thick of proportion (1 cement : 3 coarse sand). The				
	joints shall be filled with grout of matching colour of tile .Cost				
	includes all labour, material, Tools plants ,curing etc.				
	complete in all respects as per direction of Engineer.(Grossy				
	/mattfinish) Basic cost of tile= minimum Rs 79. 00/sft.	200.00	Sqm		
			•		
			TOTAL	1	

SECTION-VII PLASTERING						
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.	
1	Inside plaster:-Providing 20mm thick cement plaster at any location in cement sand mortar proportion (1 cement: 6 coarse sand) after racking out of joints, roughening the concrete surface, filling porturated surface, fixing wire mesh 200mm wide in case of concrete & brick work joints such that half on each surface fixed by help of nails cost includes of all materials, labour, lead, royalty, T & P, scaffolding, curing etc.					
2	complete in all respect as per the direction of Engineer. External plaster:-Cement plaster in two coats-18mm CP in two coats under layer 12mm CP 1:5 (1 cement: 5 coarse sand) & top layer 6mm thick CP (1:3) (1cement: 3 coarse sand) at any location finished rough with sponge after racking out joints, roughening the concrete surface, filling porturated surface, fixing wire mesh 200mm wide in case of concrete & brick work joints such that half on each surface fixed by help of nails cost includes of all materials, labour lead royalty T & P scaffolding labour, lead, royalty, T & P, scaffolding, curing, etc. complete in all respect as per the direction of Engineer . (Recron 3S @ 125gm / 50Kg of cement to be added for preparing cement mortar) Payment will be made after producing invoice of the polyester construction fibre.	2950.00 2540.00				
3	Providing 12mm thick plaster at any location cement plaster in cement sand mortar in proportion (1 cement : 4 fine sand) to ceiling of roof, beams, columns , chajja, soffit of stair case etc. after roughening the surface by proper chiseling ,surface preparation, filling porturated surface etc. cost includes of all materials, labour, lead, royalty, T & P, scaffolding, curing etc. complete in all respect as per the direction of Engineer .	3508.00				
4	Providing and forming dripcourse of 30 mm wide x 12 mm. Projection in plaster to soffit of projected slab like chajja etc. in all floors at edges with cement mortar 1 : 3 complete as directed for completion of work .	355.00				
5	Providing & mixing integral water proofing compound		Per bag			
	confirming to IS -2645 to the cement plaster work as per manufacturers Specification. (payment will be made after		of 50kg cement			
	producing invoice of materials).	950.00	used in the mix			
			TOTAL			

	SECTION-VIII ALLUMINIUM WORK								
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.				
1	Providing and fixing powder coated (50micron thick mat /satin								
	finish) aluminum windows, ventilators of required colour								
	using extruded sections of 34 series conforming to IS: 733								
	and IS : 1285, fixed with rawl plugs and screws etc. at all								
	levels including the cost of coupling members between								
	windows and necessary fittings viz. Aluminum handles								
	friction hinges etc .including providing and fixing 5mm. thick								
	clear /obscured float glass panes gaskets, glazing beads								
	and sealing joints all-round on both faces between work /								
	lintel and windows with silicon sealants of approved make								
	provision for fixing glass panes from inside and EPDM /								
	Neoprine weather seats etc all as per drawing at all levels								
	and heights.								
i)	Fixed (Overall portion treated as fixed.)	50.00	0						
	Extra over above for (extra rate admissible for the openable	50.00	•						
	portion only) : side hung shutters Providing and fixing twin style door complete with fixed	25.00	Sqm						
	glazed portion manufactured from Bronze or any other								
	approved colour anodised(50 micron thickness) extruded								
	aluminum alloy section complete with 5 mm thick clear								
	float glass for fixed portions, Neoprene dry set glazing								
	gasket, snap in beveled metal glazing strips on both sides,								
	top and bottom styles of extruded aluminum alloy sections								
	of special design for twin style door, 12 mm thick plate								
	glass for doors, necessary hardware fixtures viz. double								
	action floor spring, mortice lock flush bolt, chromium								
	plated brass tubular handle as per drawing on both								
	faces all complete at all levels and heights.								
	Fixed portion	10.00	Care						
ii)	Openable portion	10.00	Sqm						
,	· · ·	10.00	Sqm						

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
	Providing and Fixing Structural Glazing with provision for				
	opening (top hung) as per detailed drawing at any location				
	fabricated from roll formed sections made of galvanized steel				
	colour coated/power coated (Base Steel as per IS 513 'D'				
	qualitycoated (Base Steel as per IS 513 D quality galvanized				
	thickness of 0.72mm. The Glass holding section made of 304				
	grade stainless steel of 0.6mm thick. CRCA sections with				
	Polyurethane Coating are to be used as stiffeners inside the				
	CCS section as per the design requirement. Paint				
	Specifications : Coated Sections should be with Primer Coat				
	of Epoxy Primer of 5-7 microns thick, finish painted with a				
	Polyester Paint of 12-16 microns thick and back coated with				
	Alkyd backer of 5-7 microns, or Powder Coated with pure				
	Polyester Powder up to 50-60 microns thick. Dimensions of				
	Sections :The sections are to be of 33x58 mm or 50x100 mm				
	for frame verticals, 33x59 mm for frame horizontals, section				
	for reinforcement should be of 31x55 mm / 48x98 mm				
	(CRCA). Glass holding section should be of 32.5x37 mm for top and				
	bottom grids, in between should be of 32.5 x 18mm Fixing Details : The sections are to be cut to length, joined by means of powder coated CRCA brackets. The above Frame should be fixed to brick/ concrete masonry by using Nylon				
	self-expanding caps and driving MS electroplated 80mm long				
	screws into the caps through frames. Glazing: Glass of 6mm				
	thick one side reflective of approved make & colour to be fixed with the help of sealant. (Only finished area will be				
	taken in account for payment)				
		150.00	Sqm		
			TOTAL		

SECTION-IX FINISHING							
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.		
1	Providing and laying white cement based wall putty of						
	1.5mm thickness over a plastered surface to prepare						
	the surface even and smooth complete (Birla, JK, Sika).	2011.00	Sqm				
2	White washing with lime to give an even shade Old / New		•				
	work (three or more coats) mixed with approved adhesive						
3	complete to the satisfaction of engineer-in-charge Painting two and more coats at any location with Acrylic distemper of Asian/ Nerolac, of approved shade to get an even shade over plastered wall & ceilings over one coat of primer (cost excluded) as per manufacturers specification at any location cost includes all material ,repairing cracks, scaffolding , lead, T&P etc. complete in all respect as per the	7000.00	Sqm				
4	direction of the Engineer, at all heights and any location of new work. Applying one coat of cement primer of approved quality and	2750.00	Sqm				
	manufacture on wall surface.	2750.00	Sqm				
5	Finishing walls with water proofing cement paint of approved brand & manufacture and of required make to give an even shade new work (three coats) @ 3.84 Kg /10 Sqm(snowcem plus or equivalent complete up to the						
	satisfaction of Engineer-in-charge.	5000.00	Sqm				
6	Applying priming coat with ready mixed zinc chromate yellow primer of proved brand and manufacture on steel / galvanised steel works.	1200.00	Sqm				
7	Applying ready mixed pink or grey primer of approved and manufacture on wood work (hard and soft wood)	250.00	Sqm				
8	Painting with ready mixed synthetic enamel paint of approved brand manufacture in all shades to give an even shade. All complete up to the satisfaction of engineer in charge.						
a)	steel work(two coats)	1200.00	Sam				
b)	wood work(two coats)	250.00	•				
	Over wall	200.00	-				
9	Providing and applying two coats of premium quality exterior acrylic emulsion paint 'weather shield max' of ICI India Ltd./Apex Ultima or equivalent of approved shade over a coat of approved primer of same manufacturer at all levels including sand papering, cleaning and preparation of surface.	3200.00					
10	Providing and applying Acrylic emulsion paint (two coats complete to satisfaction of engineer in-charge) of approved brand and manufacturer over a coat of primer as	5200.00					
	required to wall ceiling etc. all complete in all floors and heights complete.	500.00	Sgm				
		200.00	·				

	SECTION-X WATER PROOFING								
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.				
1a)	Providing and applying SIKA TOP SEAL107 hi (priming coat								
	with 0.1kg/sqm &two coats using 2.5kg/sqm using glass fiber								
	as intermediate layer between two coats) in terrace and after								
	making the surface free from loose particles, oil, grease, or								
	any other contaminants by using wire brush, acid wash and								
	water jetting . The whole treatment must be continued upto a								
1b)	height of 300mm of parapet wall from roof slab. Providing and laying screed concrete on the top of the roof in	1850.00	Sqm						
,	1 : 2 : 4 (1 cement:2 sand :4 stone chips 10mm down grade)								
	with water proofing admixture Conforming to IS:2645, and								
	crack resistance fiber like RECRON 3S equivalent with slope								
	of 1in 100and necessary hollering as per direction of								
	Engineer- in -charge.(minimum thickness of 75mm)	25.00	Sqm						
2	Providing and Filling the Expansion joint with joint sealing								
	compound on polyeurathane based or equivalent including a								
	backup material like Thermocole/Celatex board inside the								
	groove of expansion joints. The width to depth ratio of sealant								
	should be 2:1	100.00	Rmt						
3	Providing and applying SIKA TOP SEAL107 hi (priming coat with 0.1kg/sqm &two coats using 2.5kg/sqm using glass fiber as intermediate layer between two coats.) over R.C.C sunken slab of toilet immediately when concrete is still green (after two days of casting of roof) covered with 12mm thick cement plaster (1:4) admixed with integral water proofing liquid sika plastocrete super confirming to IS 2645. The hole treatment should continue up to height of 600mm above toilet floor level.	40.00	SQM						
	Notes-All the water profing work should be carried out through specilised application agency of sika or equivalent)								

	SECTION-I SANITARY & PLUMBING WORK							
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.			
	Providing, Supplying & Fixing Indian type water closet I.S.I.							
	Marked (confirming to IS : 7231) at all heights of (Parryware/ Cera) make with integral foot rest white vitreous ware with P /							
	S trap (PVC) with 10.0 Ltr capacity low level flushing cistern							
	in white plastic manually controlled device (handle lever) of							
	approved make /shade with all internal fittings etc. & fixtures							
	including making good the damages,cost of all materials, labour, tax, T&P, lead, royalty etc.complete in all respects as							
	per direction of Engineer. White vitreous china Orissa pattern							
	WC pan size (580x440mm) with integral type footrest,							
	32mm dia flush pipe Eqv. to-Cat no-2092 Orissa pan of Cera.							
	& Prima, cat no 2690, Flushing Cistern of Cera.							
i)	White Vitreous china Long pan pattern W.C pan of size 580 mm	1 00	Each					
2	Providing, Supplying & Fixing European type water closet	1.00	Eduli					
-	(EWC) I.S.I. Marked (confirming to IS : 7231) at all heights of							
	Parryware/ Cera make with seat & cover with P / S trap							
	(PVC) with 10.0 Ltr capacity low level flushing cistern in white							
	plastic manually controlled device (handle lever) of approved							
	make /shade with all internal fitting. etc. with all fittings &							
	fixtures including making good the damages , cost of all							
	materials, labour, tax, T&P, lead, royalty etc.complete in all							
	respects as per direction of Engineer. with 32mm dia flush							
	pipe. (Eqv to Cat no-2080, Camellia EWC with "P" of Cera)							
	W.C. Pan with ISI marked black solid plastic seat and lid.	1 00	Each					
	Providing and fixing white vitreous china wash basin of	1.00	Luon					
	approved make with C.I. /M.S. brackets,15 mm CP.brass							
	pillar cock ,C.P brass chain with rubber plug of standard							
	pattern, including painting of fittings and brackets, cutting							
	and making good the walls wherever required							
i)	Flat back wash basin size 630x450 mm .	10.00	Fach					
ii)	Providing and fixing of counter top wash basin.(540X500)		Each					
4	Providing and fixing white vitreous china flat back or wall							
	corner type lipped front urinal basin of 430x260x350 /							
	340x410x265mm sizes respectively with 15mm dia CP.push							
	cock with standard P.V.C. connection pipe and PTMT							
	spreaders with brass unions and G.I. clamps complete, (as							
	per design and drawing) including painting of fittings and							
	brackets, cutting and making good the walls and floors							
	wherever required.	6.00	Each					

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
5	Providing & fixing 6mm thick beveled edged sheet glass				
	mirror of approved make with 6mm ply BWR grade ply				
	backing & teak wood beading four sides ,CP mirror round				
	clamps and making good the damages as per drawing				
	including cost of all materials, labour, lead, T&P, tax, royality				
	5	10.00	Fach		
6	etc.complete in all respects as per direction of Engineer. Providing and fixing 300 x 300 mm, 18mm thick polished	10.00	Each		
0	marble shelf as per drawing with edges rounded off and fixed				
	to the wall finishing all complete.	2.00	Each		
7	Providing and fixing C.P brass Robe hook (heavy type)(3 in				
	1) with C.P. brass screws fixed to wooden door/brick wall				
	all complete.	10.00	Each		
8	Providing and fixing of following CP.brass fixtures complete				
3	(fixed to wooden cleats with C.P brass screws. 600 x 20 mm towel rail complete with brackets with brass				
1)	screw and wooden cleats with concealed arrangement .	6 00	Each		
ii)	Towel ring 200 mm dia with minimum distance of 37mm.	0.00	Eduli		
,	from wall face with concealed fittings arrangement.	6.00	Each		
iii)	standard size toilet paper holder.				
		2.00	Each		
9	Supplying & laying of the PVC (SWR) and rigid PVC soil				
	waste and vent pipes of Finolex /Prince/Supreme make of				
	Selffit type/ring fit type as per requirement, on the wall				
	surface and below ground and floor level. The rates includes				
	fixing the pipes on wall surface with the PVC clips/clamps, all				
	necessary fittings, including jointing with rubber ring, rubber				
	lubricant, gasket for PVC (SWR) pipes / solvent cement for				
	rigid PVC pipes to required length.				
	Testing as per the specifications of manufacturer, necessary				
	earthwork in excavation and filling of the pipeline trenches,				
	providing staging and scaffolding as per requirement at site				
	all complete as per direction of Engineer-in-charge are all				
	inclusive in the rate. The rate also includes all labour,				
	material, transportation, lead, lift, ascent, descent, taxes,				
	royalty etc excluding PCC below pipe & encasing etc if				
	required & will be paid in separate item.				
i	150mm dia PVC (SWR) pipe class "A" (with wall thickness of		<u></u>		
	2.70mm to 3.20mm)	25.00	Mtr		
ii)	110 mm dia PVC (SWR) pipe Class 'A' (with wall thick of				
	2.20 mm to 2.70 mm)	100.00	Mtr		
iii)	75 mm dia PVC (SWR) Pipe Class 'A' (wall thickness of 1.8				
	mm to 2.20 mm).	100.00	Mtr		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
10	Providing and laying 150 mm thick cement concrete 1:4:8 (1				
	cement:4 fine sand:8 graded stone aggregate 40mm nominal				
	size) around the PVC SWR pipes including 150 mm thick bed				
	concrete as per approved design.				
	160mm dia	20.00			
	110 mm. dia .	50.00	Each		
11	Supplying and fixing of rigid PVC fittings of (Finolex / Prince/				
	Supreme make) in the pipe line both below and above				
	wall/ground with all necessary fittings and earthwork in				
	execution etc. complete as per manufacturer specification.				
	The rate is inclusive of all labour, material, transportation				
	lead, lift, ascent, descent, taxes, royalty etc.				
i)	Nahani trap with jali 110mm x 110mm PVC (SWR/Nabivi)	Г 00	Fach		
::)	trap as per requirement).	5.00	Each		
11)	Nahani trap with jali 110mm x 75mm PVC (SWR/Nabivi trap	5.00	Each		
iii)	as per requirement). Multiple floor trap with jali 110mm		Each		
	Providing and fixing on wall face unplasticised PVC moulded fittings	5.00	Lacii		
12	and accessories along with on unplasticised PVC rain water pipes (
	Finolex/ Prince / Supreme) Class-A conforming to IS : 13592 (Type-				
	A) including jointing with seal ring conforming to IS : 5382 leaving				
	10mm gap for thermal expansion.				
I)	100mm dia	10.00	Mtr		
ii)	Fittings for pipe.110mm dia	10.00	Each		
13	Providing & fixing Divisional Plate of Cat no-5011 of Cera size 700 x				
	340x 120mm at any location and at all heights of crystal white colour				
	to be fixed in wall including making good the damages, cost of all				
	materials, labour, lead, tax, royalty etc. complete in all respects as				
	per direction of Engineer.	1 00	Each		
14	Cutting chases in brick masonry walls for following diameter	4.00	Luch		
14	UPVC pipes and making good the same with cement				
	concrete1:3:6(1 cement : 3 coarse sand : 6 graded stone aggregate				
	12.5 mm nominal size) including necessary plaster and pointing				
	in cement mortar1:4 (1cement : 4 coarse sand).				
i)	75 mm. dia.	50.00	Each		
ii)	110 mm. dia.	50.00	Each		
15	Providing and fixing P.T.M.T jali (grating) of approved quality				
	with or without hole for waste pipe for floor.				
i)	100mm To 150mm dia.	10.00	F I.		
4/	Droviding & fiving CD brace coop dick of approved make and	10.00	Facu		
16	Providing & fixing CP brass soap dish of approved make and	10.00	Fach		
47	manufacture as per Engineer in charge or Architect .	10.00	Each		
1/	Providing & fixing PTMT waste coupling of approved make and				
	manufacture 31mm.dia. 79 mm.long & 62mm breadth as per				
	Engineer in charge or Architect .	14.00	Each		
			TOTAL		

	SECTION-II WATER SUPPLY					
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.	
1	PIPES (TATA MEDIUM) AND FITTINGS :-					
i)	Providing and fixing G.I. Pipes (TATA medium or equivalent) complete with G.I. Fittings in pumps, including cutting and making good the walls painting one coat of enamel paint over a coat of metal primer etc. (internal work).Exposed on wall.					
a)	25 mm. dia. Nominal bore.	50.00	Mtr			
b)	32 mm. dia. Nominal bore.	20.00	Mtr			
c)	40 mm. dia. Nominal bore.	8.00	Mtr			
d)	50 mm. dia. Nominal bore.	10.00	Mtr			
e)	65 mm. dia. Nominal bore.	5.00	Mtr			
f)	80 mm. dia.	5.00	Mtr			
ii)	Concealed pipe including painting with anticorrosive bit mastic paint, cutting chases and making good the wall.					
a)	15 mm. dia. Nominal bore.	100.00	Mtr			
	20 mm. dia. Nominal bore.	150.00	Mtr			
c)	25 mm. dia. Nominal bore.	100.00	Mtr			
	BRASS FITTING :					
2	Providing and fixing gun metal gate valve (with ISI mark) with C.I. Wheel of approved quality (screwed end).zolota brand					
i)	25 mm. dia. Nominal bore.	2.00	Each			
ii)	32 mm. dia. Nominal bore.	4.00	Each			
iii)	40 mm. dia. Nominal bore.	4.00	Each			
iv)	50 mm. dia. Nominal bore.	2.00	Each			
v)	65 mm. dia. Nominal bore.	2.00	Each			
vi)	80 mm. dia. Nominal bore.	2.00	Each			
i)	Providing and fixing C.I. Sluice valves (with cap) complete with bolts, nuts, rubber insertions etc (the tail pieces if required will be paid separately). 80 mm. diameter. Providing and fixing CP.brass bib cock (long body) of approved quality conforming to IS:8931		Each			
i)	15 mm. dia. Nominal bore.bibcock	4.00	Each			

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
5	Providing and fixing CP.brass angle stop cock for cistern, basin mixer and geyser points of approved quality conforming to IS:8931				
i)	15 mm. dia. Nominal bore.	12.00	Each		
6	Providing and fixing CP.brass extension nipple of (15mm dia)approved make.	4.00	Each		
7	Providing and fixing shower set comprising of 1 no. CP.brass rain shower(200mm square), 15mm dia. CP.brass wall mixer with L bend.etc complete.	2.00	Each		
8	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Semi rigid pipe.				
i)	32 mm. dia.	10.00	F -		
0	Providing and fixing P.V.C. connection pipe for sink, wash	12.00	Fach		
,	basin, cistern with c.p. brass nuts(15mm dia)				
10	complete.(45cm long) Providing and fixing CP.brass.push cock 15mm nominal	12.00	Each		
10	bore.	6.00	Each		
		0.00	TOTAL		

	SECTION-III DRAINAGE				
SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	Amount Rs.
1	STONE WARE PIPES AND FITTINGS				
	Providing laying and jointing glazed stoneware pipes grade				
	'A' with stiff mixture of cement mortar in the proportion				
	of 1:1 (1 cement:1fine sand) including testing of joints etc.				
i)	complete.	50.00			
	230 mm. dia.	50.00			
	150 mm. dia. Providing and laying cement concrete 1:5:10 (1 cement : 5	250.00	IVIT		
2	coarse sand : 10 graded stone aggregate 40mm nominal				
	size) upto haunches of S.W. / P.V.C. pipes including bed				
	concrete as per standard design.				
	230 mm. dia.	50.00	Mtr		
	150 mm. dia.	500.00	Mtr		
3	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with bricks				
	of class designation 75 and water tight C.I. cover with frame				
	of (300mm x 300 mm) size 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 including necessary excavation, dewatering,				
	refilling, watering, ramming and removing the surplus				
	excavated material and making good the same complete as				
i)	required.	10.00	Fach		
1) 	180 x 150 mm size P type with class 75 bricks.	10.00	Each		
т	Constructing brick masonry inspection chamber of the following sizes in brick work of class 75 in cement mortar 1:4				
	(1 cement: 4course sand), R.C.C. top slab 150mm thick with				
	1:2:4 mix (1cement : 2 coarse sand : 4 graded stone				
	aggregate 20mm. nominal size), foundation concrete 200mm				
	thick 1:4:8 mix (1 cement : 4 coarse sand stone aggregate 40				
	mm nominal size), inside plastering 12mm thick 1:3 (1				
	cement : 3 coarse sand) finished with floating coat of neat				
	cement & making channel in cement concrete 1:2:4 (1				
	cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement ,				
	proper water proofing to ensure no ground water seepage in				
	the manhole, PVC foot rests at 300 mm spacing, benching ,				
	including necessary centering and shuttering, reinforcement,				
	excavation in all kinds of soil, back filling , dewatering,				
	curing,watering, ramming and removing the surplus				
	excavated earth, making good the same complete as				
	required.				
i)	Inside size (90 x 80)cm and 45cm deep including C.I. cover				
	with frame(light duty) 455 x 610 mm internal dimensions				
	total weight of cover and frame to be not less than 38 Kg				
	(weight of cover23kg & weight of frame15 kg).	2.00	Each		

SL.NO	DESCRIPTIONS OF ITEM	QTY	UNIT	RATE Rs.	AMOUNT Rs.
-	Inside size 120 x 90 cm and 90 cm deep including C.I. Cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg.	2.00	Each		
5	Construction of 200 users septic tank of size (8.9X2.7X2.2) inside with chlorinating chamber complete as per drawing including earthwork, brickwork, concrete work, R.C.C. slab, plaster with neat finish,150 mm dia stone ware Tee provision for 100mm vent pipe etc all complete.	1.00	Each		
	Making soak pit 3.6 meter diameter 2.7 meter deep with (25 x 25) cm dry brick honey comb shaft with brick of class designation 75,150mm thick R.C.C slab of M25 grade and S.W. drain pipe 100 mm. diameter, 1.8 m long complete as per standard design.				
I)	With F.P.S. Bricks.(All dimensions are internal)	3.00	Each		
7	Extra for depth for manholes with F.P.S. brick class designation 75.				
i)	Size (80X90)cm	1.00	Mtr		
ii)	Size (120X90)cm	1.00	Mtr		
	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.				
i)	250mm dia R.C.C pipe	150.00	Mtr		
	Providing and fixing in position precast R.C.C.(1:1.25:2.5) manhole cover and frame of required shape and approved quality.				
i)	Circular shape 560 mm internal diameters.	15.00	Each		
10	Providing and constructing brick drain as per standard slope				
	and design with a layer of 10cm thick and 75cm wide cement				
	concrete 1:4:8 and K.B Brick work in cement motar				
	(1:6),23cm width on either sied with depth 7.5cm to 30cm				
	including cement plaster (1:6) with cement punning .(Section				
	of Drain 250X300mm)etc complete in all respect as per				
	, i i i	250.00	N Alex		
	direction of Engineer In charge. Providing M.S footrests including fixing in manholes with	350.00	IVILI		
	20x20x10cm cement concrete blocks 1:3:6 (1 cement : 3				
	sand : 6 coarse aggregate) as per standard design.	50.00	Nos.		
			TOTAL		

	Approved List Manufacturers/ E	Brand for Civil Works			
Approv	ed List to be used in works shall conform to Indian Standard	s Specification as publishe	ed from time to time (and in the		
absenc	e thereof as approved by Engineer – in –charge) in general t	he mode of measurement	of Civil engineering works shall		
be guid	ed by I.S.I CODE No- 1964 (Revised) for Indian standard Me	thod of measurement of b	uilding work.		
SL.NO	DESCRIPTION	I.S CODE MAKE			
1	Cement : Ordinary port land cement 43 grade	269 :1967	ACL		
2	Steel :				
	a) mild steel :	432 (Part 1) 1982	TATA/SAIL		
	b) High strength deformed steel:	1786: 1985	TATA/SAIL		
3	Sand:	383: 193 or 515 (Revised)			
4	Coarse Aggregate	383.00			
5	Lime:	792 :1973			
6	Brick: common brunt building bricks.	1077:1992 (Fifth Revision)			
7	Light Gauge structural steel section	811:1987			
8	Collapsible gate:	10521 :1983			
9	Marble:Block,slab,and tile	1130:1969			
10	Ceramic tile/Glazed tile:		Euro/Kajaria/ Nitco/Somany/Regency		
11	Vitrified porcelain tile		Euro/Kajaria/ Nitco/Somany/RAK		
12	Vinyl flooring		Tuskar/polyfioor Armstrong		
13	Aluminum section : For door window	1984 : 1961	Indal/Beco/OEL		
14	Wooden Flush door:	2202 (part2): 1983	Greenply/Century/Aeon		
15	Cement based paint:		Snowcemplus/Durocem		
16	Acrylic Emulsion		ICI/Berger/Asian Paints		
17	Distemper		ICI/Berger/Asian Paints		
18	Synthetic Enamel		ICI/Berger/Asian Paints		
19	Water proofing Admixture	2645 and 9103	Sika/Chowksy/Laticrete		
20	Glass/Glazing glass		Modiguard/saintgobain		
21	Designer concrete tile.		Ultra / Multiwyn /Eurocon		

	Specification of Materials				
1	Sanitary Fitting : Hindware/ParryWare/Cera.				
2	CI pipe & fitting :3989 of Jayaswals/NECO Ltd/Similar approved				
3	C.P fitting :Jaquar/ESSESS/GEM brand				
4	G.I Pipes:Tata make (medium quality)				
5	G.I. Fittings "R"/HB/KS brand with ISI marked				
6	G.M Valves : Leader/zoloto brand				
7	SW pipes :Sonall/Hind brand/Local brand.				
8	CI Cover & frame: Susila/ Local brand.				
9	Kitchen Sink: Nirall or similar approved.				
10	Mirror: Golden fish or similar approved.				
11	Sluice Valve: Upadhya or similar approved.				
12	UPVC Pipe:Prince/Finolex/Supreme				
13	PTMT fittings:Prayag				
	Specification for Materials, Measurement & Workmanship as per CPWD & BSI				

