

**BILL OF QUANTITIES FOR CIVIL, INTERIORS AND OTHER RELATED WORKS FOR CDC, BIMTECH**

BOQ ID	CDC-01	CONTRACTOR NAME		
NAME OF PROJECT	CAREER DEVELOPMENT CENTRE- BIMTECH	IGST TIN no.		
CARPET AREA		PAN no.		
LOCATION	GREATER NOIDA			
STATE	UP	REGION		
			AMOUNT IN RS.	AMOUNT IN Mn.
S.No.	Nature of Work		Total	
A	CIVIL & RELATED WORKS			
B	INTERIOR WORKS			
C	ELECTRICAL WORKS			
D	HVAC			
E	ADDITIONAL WORK			
	TOTAL (A+B+C+D)			
	Total Approx. Carpet area			
	Rate / sq. ft civil			
	GST@ 18% extra as per norms			
	GRND TOTAL (Including Taxes)			



LIST OF MAKES

SR. NO.	MATERIAL	PROPOSED MANUFACTURER/ SUB-CONTRACTOR / BRAND	Remarks/ MAKES CONSIDERED (please specify, if any deviation from Standard makes)
A INTERIOR, CIVIL & ALLIED WORKS			
1	ANTI TERMITE COMPOUND	PCI/HI-CARE	
2	ACC BLOCKS	SIPROX/AEROCON	
3	WATER PROOFING COMPUND	PIDILITE/ Dr. FIXIT/Tape Crete / FOSROC /UNIBASE	
4	CEMENT (BLACK)	ULTRATECH/AMBUJA/SHREE/ACC	
5	WHITE (CEMENT)	J.K WHITE/BIRLA WHITE CEMENT	
6	MS BASE PLATE	TATA/SAIL/ ISI Marked	
7	STRUCTURAL STEE[APOLLO/JINDAL/SAIL/TATA	
8	STAINLESS STEEL	JINDAL/ISI MARKED	
9	GI/ MS/ STEEL	RATHI/KAMDHENU	
10	M.S. ANGLE	RATHI/KAMDHENU	
11	SILICONE SEALANT	DOW CORNING/ 3M/ PIDILITE	
12	TMT BARS	TATA/ JINDAL/ESSAR	
13	MS PIPE	JINDAL	
14	SELF LEVELLING	ARDEX	
15	G. I. PIPES	'C' CLASS TATA/ JINDAL	
16	SANITARY WARE	HINDWARE /EQUIVALENT	
17	CP FITTING/FIXTURES	JAQUAR /HINDWARE /EQUIVALENT	
18	DRY WALL PARTITION/CEILING	USG BORAL/SAINT GOBAIN	
19	MODULAR/GRID CEILING	USG BORAL/AMF/ ARMSTRONG	
20	PVC Ceiling	ISI Marked	
21	COMMERCIAL PLYWOOD	SAMRAT/GREENPLY (ECOTEC)	
22	MARINE PLYWOOD	SAMRAT/GREENLAM/CENTURY	
23	MDF	MERRINO/ GREEN/ NUWOOD/CENTURY	
24	PRELAM BOARD	ACTION TESSA/ Merino/ Greenlam	
25	PARTICLE BOARD	MERRINO/ GREENLAM/DURO	
26	GYPSUM BOARD	BORAL/INDIA GYPSUM/SAINT GOBAIN/GYPROC/LAFARGE	
27	VENEER	MERINO/GREENLAM/SWASTIK/EURO / GREEN/ARCHID/DURO OR EQUIVALENT	
28	LAMINATES	GREENLAM/MERINO/ CENTURY/FORMICA	
29	ADHESIVE	FEVICOL SH./ ARALDITE / VAMICOL	
30	SCREWS, NAILS ETC	NETTLEFORD OR APPROVED EQUIVALENT/ DURG GLASS/RK	
31	WOOD PRESERVATIVES	WOODGUARD /TERMISIL/BLACK JAPAN	
32	GLASS	SAINT GOBAIN/ASAHI/MODI	
33	LACQUERED GLASS	SAINT GOBAIN	
34	DEMOUNTABLE GLASS PARTITION	BAUX/IKON	
35	ACCOUSTICAL SLIDING FOLDING PARTITION	MALROX	
36	SCREWS (OXIDISED)	GKW	
37	FLUSH DOORS	MERRINO/CENTURY/GREENPLY	
38	DOOR CLOSERS	HAFELE / OZONE/ DORMA	
39	HARDWARE (GLASS & FLUSH DOORS)	HAFELE / OZONE/DORMA	
40	CABINET LOCKS/HINGES	HETTICH/HAFELE	
41	AL. DOOR & WINDOW SECTION	JINDAL/INDAL	
42	AL PARTITIONS	JINDAL/ISI MARKED	
43	GI PARTITIONS	APOLLO/ISI MARKED	
44	GI SHEETINGS	ASIAN/ESSAR/BHUSHAN/ISI MARKED NOT LESS THAN 0.6MM TK	
45	PLASTER OF PARIS	SAKARNI/JK	

46	MINERAL WOOL	ROCKLLOYD300-LLOYD INSULATIONS/LAPINUS/ROCKWOOL	
47	TEXTURE PAINT	ICI DULUX/ASIAN PAINTS	
48	PAINTS	ASIAN, ICI, GARWARE, NEROLAC	
49	BLINDS	D-DÉCOR / VISTA/Mac Décor /RosselleEQUIVALENT	
50	BAY MARKING PAINT- OUTDOOR PARKING	CIPY-FK666 GOLDEN YELLOW OR WHITE-EPOXY	
51	RAILING PAINT	BERGER/ASIAN	
52	AL SECTIONS/AL PARTITIONS	INDIA GYPSUM BORAL	
53	PUTTY	BIRLA WHITE/SHRIRAM/ASIAN	
54	ACRYLIC SOLID SURFACES	LG/DUPONT/SAMSUNG/MERRINO	
55	POP	SAKARNI/SUPERFINE/JK	
56	MELAMINE	ICI DULUX/ASIAN	
57	ADHESIVE	FEVICOL/ANCHOR/JIVANJOR	
58	POLISH STAINER	ICI DULUX/BERGER/NEROLAC	
59	GLASS WOOL	U,P, TWIGA	
60	WALL PUTTY	LK/BIRLA/ASIAN PAINT	
61	CEMENT PRIMER	ICI DULUX/BERGER/NEROLAC	
63	DRY DISTEMPER	ICI DULUX/BERGER/NEROLAC	
64	DISTEMPERS/SYNTHETIC ENAMEL/PLASTIC EMULSION POLYURETHANE/EPOXY PAINTS AND PRIMERS	ASIAN, ICI DULUX, BERGER, Nerolac	
65	FIRE RESISTANT PAINT	VIPER by Navair Pvt. Ltd	
66	CPVC & PVC PIPES AND FITTINGS	ASTRAL/SUPREME/PRINCE	
67	HEAT REFLECTING GLASS	SAINT GOBAIN/AIS/MODIGUARD	
68	WELDING ELECTRODES	ADVANI	
69	FIRE DOORS	PACIFIC/KINDLE	
B CARPET /MODULARS/CHAIRS			
1	MODULAR FURNITURE	FRONTLINE /EQUIVALENT	
2	CHAIRS	FEATHERLITE/HARMONY/GEEKEN OR EQUIVALENT	
3	LOOSE FURNITURE	FEATHERLITE/HARMONY/AFC	
4	CARPET	CCIL/AMVIGO/TOLI/MODULYSS/INT ERFACE/MILLIKEN OR EQUIVALENT	
5	LAMINATED WOODEN FLOOR	UNITEX/VISTA/KRONO	
6	SWSECURITY FILM	3M	
7	VINYL FILM	3M/LUMMAR	
8	TILES- CERAMIC & VITRIFIED	ORIENT/NITCO / KAJARIA / Somany/JOHNSON	
9	VINYL FLOOR	ARMSTRONG/LG	
10	LEVELLING COMPOUND	LATICRETE/ ARDEX	
11	WALLPAPER	ELITE/WALL QUEST/TEXAM/FIDELITY/ONEXCO/P	
12	GRAPHIC FILM	AVERY	
13	SOFTBOARDS	SITATEX/JOLLY	
C HVAC & ALLIED WORKS			
1	VRV/NON VRV	DAIKIN/TOSHIBA/MITSUBISHI	
2	COPPER PIPES AND FITTINGS	MANDEO/RAJCO/TOTALINE	
3	INLINE FAN	CARYAIRE/KUGER/SPHERE	
4	DUCTS	ZECO/DUCTOFAB	
5	AHU-FAN SECTION	ZECO/CARYAIRE/HUMIDIN	
6	NITRILE RUBBER	K-FLEX/A-FLEX/ARMA FLEX	
7	OVAL DUCT	GP SPIRA/DUCTOFAB	
8	INLINE FAN	CARYAIRE/KUGER/SPHERE	
D ELECTRICAL & ALLIED WORKS			
CABLES & ACCESSORIES			
1	CABLES	POLYCAB/KEI	
2	CABLE LUGS/GLANDS	DOWELL/JAINSON/SEIMENS	
3	CABLE TRAYS	PROFAB/ASIAN/UNIVERSAL/ PRE- APPROVED	
WIRES & ACCESSORIES			
1	SINGLE CORE WIRES	POLYCAB/KEI	
2	THREE CORE FLEXIBLE WIRES (BLACK & WHITE)	POLYCAB/KEI	
3	CONDUIT PIPES & FITTINGS (PVC)	AKG/BEC/PRECISION/ DIAMOND	
4	SWITCHES/SOCKETS	ANCHOR ROMA/NORTH WEST VENA/HAGAR/PREAPPROVED	

5	METAL CLAD SOCKETS/IEC TYPE PLUG-SOCKETS	NEPTUNE BALLS/CROMPTON/MDS/HAGER/CLI PSAL	
LIGHT FITTINGS/FIXTURES			
1	LED FITTINGS	WIPRO/LEGERERO/HAVELLS	
2	LED SPOT LIGHTS	WIPRO/LEGERERO/HAVELLS	
3	DECORATIVE LIGHTS	PREV APPROVED	
4	FANS(CEILING/EXHAUST)	CROMPTON/ORIENT/RALLIS/KHAITAN/NEWTEC/GEC	
DB & MCB			
1	MCCB, MCB, DB, RCBO, ELCB	ABB, L&T, HAGER,LEGRAND	
2	LT PANELS	CPRI APPROVED	
Fire Alarm System			
1	CONVENTIONAL FIRE ALARM SYSTEM	Ravells/ (UL Listed)	
2	FIRE EXTINGUISHER	SAFEX /KANEX	
UPS SYSTEM			
1	UPS SYSTEM	CHAMPION	
NETWORKING SYSTEM			
1	CAT 6 CABLE & ACCESSORIES	COMSCOPE SYSTMEX	
PA SYSTEM			
1	ANALOGUE PA SYSTEM	BOSCH/ AHUJA	
FIRE FIGHTING SYSTEM			
1	FIRE EXTINGUISHER	SAFEX /KANEX	
2	MS PIPE	TATA/JINDAL/SAIL	
3	SPRINKLER	HD FIRE/TYCO	
4	HOSE PIPE	HD FIRE/TYCO	
5	VALVES	AUDCO/ADVANCE/ZOLOTO	

PROJECT: DETAILED ESTIMATE OF PROPOSED BIMTECH OFFICE

ABSTRACT OF COST

S.N.	DESCRIPTION OF ITEM	SCH. NO.	QTY	UNIT	RATE	AMOUNT
1	Dismantling and demolition work					
	Demolition of existing 4.5" walls inclusive of removal of lintels, slabs if any, etc, and making good the damaged areas with cement plaster. (only for making openings.) ²		13.90	SQ.M		
	Dismantling of existing partitions (incl. Glass partitions & doors) at site and disposal of debris at a location indicated off site, if applicable.		26.00	SQ.M		
	Removal of existing Flooring incl of disposal of debris at indicated location off site.		66.00	SQ.M		
	Removal of existing doors & door frames carefully incl. hold fasts, anchors etc. and making good all affected areas with smooth plaster and disposal of debris at an indicated location off site					
	Removal of existing dado from walls incl of disposal of debris at indicated location off site.		67.00	SQ.M		
	Removal of existing wires and cables on site inclusive of disposal of the same.					
	Removal of existing ceiling of all existing area and debris removal.		68.00	SQ.M		
	Removing and disposing of debris at indicated location off site, keeping the site clean and create area for working					
2	Excavation in foundation in ordinary soil (loam clay or sand) including lift upto 1.50 meter and lead upto 30 meter and including filling, watering and ramming of excavated earth into the trenches or into the space between the building and sides of foundation trenches or into the plinth and removal and disposal of sur-plus earth as directed by the Engineer incharge up to a distance of 30 meters from the foundation trenches.	2.8.1	40.400	CUM		
3	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	2.25,a	-8.840	CUM		
4	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete,including cost of form- work, in foundation and floors.	4.1.8	13.840	CUM		
5	Sand filling in plinth including supply of necessary quantity of sand from a distance not exceeding 8 kms. from the site of work and including watering, dressing etc rate to include cost of all materials labour T & P etc required for proper completion of work.	2.27	6.560	CUM		
6	Providing and injecting chemical emulsion for pre constructional antitermite treatment and creating a chemical barrier under and around the column pits wall trenches basement excavation top surface if plinth filling junction of wall and floor, along the the external perimeter of binding expansion joints, surrounding of pipes and conduits etc, complete.					

	(plinth area of the building at ground floor only shall be measured as per I.S.6313 (Part II 1981) Alderine emulsifiable concentrate or any other approved material such as Heptachlor or Chlordane will be used. The rate of application of chemical emulsion shall be as follows : (1) Treatment for masonry & foundation 5 liters per sqm. (2) Back fill in immediate contact with foundation 7.5 liters/sqm (3) Treatment of top surface of plinth filling 5 liters/sqm						
	(4) Treatment junction of wall and the floor 7.5 liters /sqm (5) Treatment of soil along external perimeter of building 7.5 liters/sqm (6) Treatment of soil under apron along external perimeter 5 liters/sqm. (As per manufacturer's standard dilution)	2.35.3	120.689	SQM			
7	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources). R.C.C. work in Lintel	5.3	0.390	CUM			
8	As in item no. 6 above but for slabs (Using 1:1.5:3 Mix concrete). M-20	5.3	7.860	CUM			
9	As in item 6 but for the lighter beams i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete) M-20	5.3	4.480	CUM			
10	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :: 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) R.C.C.work in footing	5.1.2	6.189	CUM			
11	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :: 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) R.C.C.work in column	5.1.2	1.160	CUM			
	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) R.C.C.work in column	5.2.2	2.290	CUM			
12	M-150 brick work in 1:6 (one cement and six coarse sand sand of 2.25 fineness modulus) mortar in foundation & plinth including supply of all materials, labour and T & P etc required for proper completion of the work.	6.1.2	3.010	CUM			
13	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	4.1	4.200	SQM			
14	Painting on DPC or over roof slab one coat of air blown bitumen 60/70 or 80/100 grade @ one Kg/Sqm including cost of fuel wood other materials, labour T & P etc required for proper completion of work.	4.13	4.200	SQM			

15	Brick work in super-structure above plinth level including necessary cutting and moulding of bricks as required and also including honey comb brick work thickness of wall not to be less than 1.5 brick thick. (1:6 cement & coarse sand).	6.4.2	17.460	CUM			
16	TMT Fe-500 iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	5.22.6	28.400	QTL			
17	15 mm plinth plaster (1 cement :4 coarse sand) F.M.-2.25	13.5.1	6.710	SQM			
18	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. (1)1 cement : 6 coarse sand. F.M.-2.25	13.4.2	139.810	SQM			
19	15 mm cement plaster in single coat on rough side of single or half brick wall for interior plastering up to floor two level including internal rounded angles not exceeding 80 mm in girth and finished even and smooth. (1) 1 cement : 6 coarse sand.	13.5.2	55.120	SQM			
20	12mm thick plaster in 1:3 cement & coarse sand on ceiling and soffits of stairs upto floor two level.	13.9.1	[For Painting only]				
(a)	Ground Floor						
(b)	First Floor						
21	Making grooves 10 to12mm wide x 8mm deep in plaster of the wall or in ceiling vertically or horizontaly as required	13.76	20.540	RM			
22	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12-20mm nominal size laid in one layer neat cement (40 mm thick floor).	11.3.1	36.970	SQM			
23	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	13.80	243.650	SQM			
24	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	13.47.1	139.810	SQM			
25	Distemping (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	13.41.1	103.840	SQM			

26	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.						
	b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs						
	c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineerin- Charge :						
	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.						
	ballast cement and coarse sand masonry coba with top finished plaster mixed with acetic water proofing compound @ 2% by weight & including S/o all material, labour T & P etc complete for proper completion of work.	22.7.1	40.08	SQM			
27	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that ccommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions.						
	The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge. (Material shall confirm to ASTM 6063) Floor Joint of 100 mm gap	5.44.1	13.85	RM			

28	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement						
	and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical isplacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063.) Roof Joint of 100 mm gap	5.46.1	13.85	RM			
29	Providing and fixing of expansion joint system elated with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimalexposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063). Wall Joint of 100 mm gap	5.45.1	6.75	RM			
30	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints. 200 mm wide.	5.43.1	27.70	RM			
31	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	5.9.1	8.390	SQM			
(b)	Columns,Pillars, Piers, Abutments, Posts and Struts.	5.9.6	55.500	SQM			
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	5.9.5	72.230	SQM			
(d)	Suspended floors, roofs, landings, balconies and access platform.	5.9.3	54.12	SQM			

32	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in- charge Extruded section size 60x58 mm	9.117.1	94.50	RM			
33	Providing and fixing factory made uPVC white colour casement/Casement cum fixed glazed door comprising of uPVC multichambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 \pm 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weat						
	Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.						
	Casement door with top hung ventilator with 3D and S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series) frame 60 x 58 mm, sash 60 x 104 mm & T mullion 60 x 72 mm all having wall thickness of 2.3 \pm 0.2 mm and single glazing bead / double glazing bead of	9.147C.2	15.17	SQM			
34	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 \pm 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc.						
	Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)						
	Three track three panels sliding door with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, zinc alloy (Zamak) powder coated handle on two panels along with multi-point locking system, adjustable nylon rollers with SS 304 body.						

	Using R3 series with frame (98 mm & above) x (40 mm & above) & both glazed and fly screen sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	9.147.B3.1	9.73	SQM			
35	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :Float glass panes 5.5 mm thick glass panes	9.7.7.2	28.50	SQM			
36	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	25.1	58.01	KG			
b	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:						
	a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:						
	b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers						
	c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment , including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.						
	d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it						
	Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm" 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test" Tests to be conducted on site 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000ml"	25.2	8.93	SQM			

c	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge.						
	The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm						
	(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25-0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	25.3	8.93	SQM			
d	Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineerin- Charge.	25.4	2.68	SQM			
37	Providing and fixing on wall face unplasticised-Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.						
	110 mm	12.41.2	20.00	Metre			
38	Providing and fixing on wall face unplasticised PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.						
	Bend 87.5 degree	12.42.5.2					
	110 mm Bend	12.42.5.2	4.00	Each			
	Shoe (Plain)	12.42.6					
	110 mm Shoe	12.42.6.2	4.00	Each			
39	Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with MS screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.	12.43					
	110 mm	12.43.2	10.00	Each			
40	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over PVC sheet 1m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement,punning,rounding the edges and making and finishing the outlet complete.	12.22	10.00	Each			

41	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	10.25.2	1503.200	kg			
42	P/F lexon/equivalent make thermoclear plus UV multiwall 10 mm thick polycarbonate glazing sheet with high light transmission, long term weather resistance with outstanding thermal insulation properties in clear (112) shade and self cleaning outer surface with 50 mm aluminium extrusions, EPDM rubber gasket both top & bottom channels, silicone etc as required for proper completion of work. □	MR	39.56	RM			
43	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	13.62.1	75.160	SQM			
44	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50 mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.	16.91.2	23.910	SQM			
45	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.	11.41.2	39.560	SQM			
46	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 15mm thick cement mortar 1:3 (1 cement : 3 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm.	11.46.2	3.080	SQM			
47	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for coffee counter, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red Area of slab over 0.50 sqm	8.2.2.2	4.34	SQM			
48	Homogeneous VINYL floor (armstrong) simpurity with diamond 10 coating Thickness 2mm & 2 mtr. Wide thickness of wear layer would be 2mm & single layered. Operation complete as per direction of Engineer-In-Charge.	MR	43.72	SQM			

49	SUB HEAD-V :- MARBLE & GRANITE WORK Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for Verandah ,kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab upto 0.50 sqm		7.00	SQM			
50	Providing and laying Ceramic glazed floor tiles in terrace of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete		40.00	SQM			
51	Providing and fixing 1st quality wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		10.21	SQM			
					TOTAL		
					G. TOTAL		

PROJECT: DETAILED ESTIMATE OF PROPOSED BIMTECH OFFICE

DETAILS OF MEASUREMENT

S.NO.	DESCRIPTION OF ITEM	NO.	L	B	H	QTY	UNIT
1	Earth work in excavation						
	UNDER FOOTING						
	FT1	4	1.675	1.370	1.500	13.77	
	FT2	1	1.280	1.740	1.500	3.34	
	FT3	1	1.430	1.025	1.500	2.20	
	FT4	1	1.635	1.025	1.500	2.51	
	FT5	1	1.175	1.175	1.500	2.07	
	FT6	2	1.430	1.430	1.500	6.13	
	FT7	2	1.175	1.430	1.500	5.04	
	UNDER GRADE BEAM						
	GB1	1	5.150	0.380	0.600	1.17	
		1	4.075	0.380	0.600	0.93	
		1	1.170	0.380	0.600	0.27	
		2	1.128	0.380	0.600	0.51	
	GB2	1	3.860	0.380	0.600	0.88	
		1	5.535	0.380	0.600	1.26	
		2	0.485	0.380	0.600	0.22	
	VER.	2	0.230	0.380	0.600	0.10	
					TOTAL	40.40	CUM
2	Filling of Carted earth						
	Deduct @ 30% available earth					-12.12	
	UNDER FLOOR				[0.3-0.15-0.075]		
	CUBICLES	1	8.990	2.400	0.075	1.62	
		1	7.490	2.400	0.075	1.35	
	VER.	1	1.205	3.450	0.075	0.31	
					TOTAL	-8.84	CUM
3	Base concrete (1:4:8)						
	UNDER FOOTING						
	FT1	4	1.675	1.370	0.150	1.38	
	FT2	1	1.280	1.740	0.150	0.33	
	FT3	1	1.430	1.025	0.150	0.22	
	FT4	1	1.635	1.025	0.150	0.25	
	FT5	1	1.175	1.175	0.150	0.21	
	FT6	2	1.430	1.430	0.150	0.61	
	FT7	2	1.175	1.430	0.150	0.50	
	UNDER GRADE BEAM						
	GB1	1	8.030	0.380	0.150	0.46	
		1	9.270	0.380	0.150	0.53	
		1	2.170	0.380	0.150	0.12	
		2	2.090	0.380	0.150	0.24	
	GB2	1	7.250	0.380	0.150	0.41	
		1	8.175	0.380	0.150	0.47	
		2	2.110	0.380	0.150	0.24	
	VER.	2	0.230	0.380	0.150	0.03	
	UNDER FLOOR						
	CUBICLES	1	8.990	2.400	0.075	1.62	
		1	7.490	2.400	0.075	1.35	
	VER.	1	1.205	3.450	0.075	0.31	
		1	7.580	2.500	0.075	1.42	
		2	1.525	1.625	0.075	0.37	
	UNDER APRON						
	APRON	2	9.340	0.900	0.075	1.26	

		2	11.201	0.900	0.075	1.51	
					TOTAL	13.84	CUM
4	Sand filling						
	UNDER FLOOR						
	CUBICLES	1	8.990	2.400	0.150	3.24	
		1	7.490	2.400	0.150	2.70	
	VER.	1	1.205	3.450	0.150	0.62	
					TOTAL	6.56	CUM
5	Anti-termite treatment						
	UNDER FLOOR AREA						
	CUBICLES	1	8.990	2.400		21.58	
		1	7.490	2.400		17.98	
	VER.	1	1.205	3.450		4.16	
	FOUNDATION AREA						
	UNDER FOOTING						
	FT1	4	1.675	1.370		9.18	
	FT2	1	1.280	1.740		2.23	
	FT3	1	1.430	1.025		1.47	
	FT4	1	1.635	1.025		1.68	
	FT5	1	1.175	1.175		1.38	
	FT6	2	1.430	1.430		4.09	
	FT7	2	1.175	1.430		3.36	
	UNDER GRADE BEAM						
	GB1	1	8.030	0.380		3.05	
		1	9.270	0.380		3.52	
		1	2.170	0.380		0.82	
		2	2.090	0.380		1.59	
	GB2	1	7.250	0.380		2.76	
		1	8.175	0.380		3.11	
		2	2.110	0.380		1.60	
	VER.	2	0.230	0.380		0.17	
	APRON AREA						
	APRON	2	9.340	0.900		16.81	
		2	11.201	0.900		20.16	
					TOTAL	120.69	SQM
6	R.C.C. work in Lintel						
	G1	1	3.160	0.230	0.150	0.11	
	W1	3	1.360	0.230	0.150	0.14	
	W2	2	1.360	0.230	0.150	0.09	
	W3	1	1.360	0.230	0.150	0.05	
					G.TOTAL	0.39	CUM
7	R.C.C. work in slab & Chazza						
		1	9.455	2.860	0.150	4.06	
		1	7.720	2.860	0.150	3.31	
	PROJECTION						
	REAR SIDE	1	2.940	0.450	0.100	0.13	
		1	2.745	0.450	0.100	0.12	
	RIGHT SIDE	1	2.300	0.450	0.100	0.10	
		1	1.465	0.450	0.100	0.07	
		1	1.650	0.450	0.100	0.07	
					TOTAL	7.86	CUM
8	R.C.C.work in Beams						
	B1	1	8.030	0.230	0.450	0.83	
		1	9.270	0.230	0.450	0.96	
		1	2.170	0.230	0.450	0.22	
		2	2.090	0.230	0.450	0.43	
	B2	1	7.250	0.230	0.450	0.75	
		1	8.175	0.230	0.450	0.85	
		2	2.110	0.230	0.450	0.44	
					TOTAL	4.48	CUM

9	R.C.C.work in Raft foundation						
	FT1	4	1.525	1.220	0.150	1.12	
	4*0.15/6*(1.525*1.220+0.380*0.45+4*0.955*0.835)					0.52	
		4	0.380	0.450	-		
	FT2	1	1.130	1.590	0.150	0.27	
	1*0.15/6*(1.130*1.590+0.380*0.45+4*0.755*1.025)					0.13	
		1	0.380	0.450	-		
	FT3	1	1.280	0.875	0.150	0.17	
	1*0.15/6*(1.280*0.875+0.450*0.45+4*0.855*0.955)					0.11	
		1	0.450	0.450	-		
	FT4	1	1.485	0.875	0.150	0.19	
	1*0.15/6*(1.485*0.875+0.380*0.45+4*0.933*0.633)					0.10	
		1	0.380	0.450	-		
	FT6	2	1.280	1.280	0.150	0.49	
	2*0.15/6*(1.280*1.280+0.380*0.45+4*0.830*0.865)					0.23	
		2	0.380	0.450	-		
	FT7	2	1.025	1.280	0.150	0.39	
	2*0.15/6*(1.025*1.280+0.380*0.45+4*0.705*0.865)					0.20	
		2	0.380	0.450	-		
	Plinth Beam						
	GRADE BEAM						
	GB1	1	8.030	0.230	0.230	0.42	
		1	9.270	0.230	0.230	0.49	
		1	2.170	0.230	0.230	0.11	
		2	2.090	0.230	0.230	0.22	
	GB2	1	7.250	0.230	0.230	0.38	
		1	8.175	0.230	0.230	0.43	
		2	2.110	0.230	0.230	0.22	
					TOTAL	6.19	CUM
10	R.C.C.work in Column						
	C1	8	0.230	0.230	1.550	0.66	
	C2	4	0.230	0.350	1.550	0.50	
					TOTAL	1.16	CUM
	C1	8	0.230	0.230	3.075	1.30	
	C2	4	0.230	0.350	3.075	0.99	
					TOTAL	2.29	CUM
					G.TOTAL	3.45	CUM
11	B/W In foundation.						
	GB1	1	8.030	0.230	0.300	0.55	
		1	9.270	0.230	0.300	0.64	
		1	2.170	0.230	0.300	0.15	
		2	2.090	0.230	0.300	0.29	
	GB2	1	7.250	0.230	0.300	0.50	
		1	8.175	0.230	0.300	0.56	
		2	2.110	0.230	0.300	0.29	
	VER.	2	0.230	0.230	0.300	0.03	
					TOTAL	3.01	CUM
12	D.P.C						
	WALL	2	2.065	0.230		0.95	
		1	7.840	0.230		1.80	
		1	9.015	0.230		2.07	
					TOTAL	4.82	SQM
	DEDUCTION (-)						
	G1	1	2.700	0.230		0.62	

					TOTAL	0.62	SQM
					NET TOTAL	4.20	SQM
13	Bitumen Painting on D.P.C.					4.20	SQM
	QTY SAME AS ITEM NO. 13				TOTAL	4.20	SQM
14	B/W in super-structure				[3.075-0.3]		
	WALL	2	2.065	0.230	2.775	2.64	
		1	7.840	0.230	2.775	5.00	
		1	9.015	0.230	2.775	5.75	
	DOOR	1	0.900	0.230	2.550	0.53	
		1	1.175	0.230	2.550	0.69	
	WINDOW	1	0.875	0.230	1.650	0.33	
		1	1.053	0.230	1.650	0.40	
	PARAPET	1	28.650	0.230	0.900	5.93	
					TOTAL	21.27	CUM
	DEDUCTION (-)						
	G1	1	2.700	0.230	2.550	1.58	
	W1	3	0.900	0.230	1.650	1.02	
	W2	2	0.900	0.230	1.950	0.81	
	W3	1	0.900	0.230	1.950	0.40	
					TOTAL	3.81	CUM
					NET TOTAL	17.46	CUM
15	M. S. work in R.C.C.						
	qty same as item no (7) (Lintel)	1	0.390	0.785	1.500	0.46	
	qty same as item no (8) (Slab)	1	7.860	0.785	1.000	6.17	
	qty same as item no (9) (Beam)	1	4.480	0.785	2.500	8.79	
	qty same as item no (10) (footing)	1	6.189	0.785	1.000	4.86	
	qty same as item no (11) (Column)	1	3.450	0.785	3.000	8.12	
					TOTAL	28.40	QTL
16	15mm thick plinth plaster						
	Outer side						
	OUTER	1	8.745		0.150	1.31	
		1	10.300		0.150	1.55	
		2	2.575		0.150	0.77	
	Inner side						
	CUBICLES	1	8.290		0.150	1.24	
		1	2.400		0.150	0.36	
		1	9.850		0.150	1.48	
					TOTAL	6.71	SQM
17	12mm cement plaster (outer surface)				[3.075+0.3]		
	OUTER	1	8.745		3.375	29.51	
		1	10.300		3.375	34.76	
		2	2.575		3.375	17.38	
	PARAPET	1	28.650		2.030	58.16	
					G.TOTAL	139.81	SQM
18	12 mm Thick plaster (Inner side)				[3.075-0.15]		
	CUBICLES	1	8.290		2.925	24.25	
		1	2.400		2.925	7.02	
		1	9.850		2.925	28.81	
	DOOR	1	0.900		2.550	2.30	
		1	1.175		2.550	3.00	
	WINDOW	2	0.875		1.650	2.89	
		2	1.053		1.650	3.47	

					TOTAL	71.74	SQM
	DEDUCTION (-)						
	G1	1	2.700		2.550	6.89	
	W1	3	0.900		1.650	4.46	
	W2	2	0.900		1.950	3.51	
	W3	1	0.900		1.950	1.76	
					TOTAL	16.62	SQM
					NET TOTAL	55.12	SQM
19	Ceiling plaster						
	CUBICLES	1	8.990	2.400		21.58	
		1	7.490	2.400		17.98	
	VER.	1	1.205	3.450		4.16	
	PROJECTION						
	REAR SIDE	1	2.940	0.450		1.32	
		1	2.745	0.450		1.24	
	RIGHT SIDE	1	2.300	0.450		1.04	
		1	1.465	0.450		0.66	
		1	1.650	0.450		0.74	
					TOTAL	48.72	SQM
20	Making grooves.						
	CUBICLES	1	8.290			8.29	
		1	2.400			2.40	
		1	9.850			9.85	
					TOTAL	20.54	RM
21	Cement concrete flooring						
	APRON	2	9.340	0.900		16.81	
		2	11.201	0.900		20.16	
					TOTAL	36.97	SQM
22	Base of water proof cement putty						
	Same as Item No. 19+20+21				TOTAL	243.65	SQM
23	Acrylic smooth exterior painting						
	Same as Item No. 19				TOTAL	139.81	SQM
24	Oil bound distemper						
	Same as Item No. 20+21				TOTAL	103.84	SQM
25	Brick Koba Treatment						
	TERRACE	1	2.515	7.590		19.09	
		1	1.205	3.685		4.44	
		1	6.010	2.495		14.99	
		1	1.975	0.790		1.56	
					TOTAL	40.08	SQM
26	Expansion joint (Floor Joint)						
	Horizontally	1	13.85			13.85	
					TOTAL	13.85	RM
27	Expansion joint (Roof Joint)						
	Horizontally	1	13.85			13.85	
					TOTAL	13.85	RM
28	Expansion joint (Wall Joint)						
	Vertically	2			3.375	6.75	
					TOTAL	6.75	RM
29	Stainless steel Grade 304 plate						
	Horizontally	2	13.85			27.70	
					TOTAL	27.70	RM
30	Centering & Shuttering						
(a)	Foundations, footings, bases of columns, etc.						
	For footing						
	FT1	4	5.490		0.150	3.29	
	FT2	1	5.440		0.150	0.82	

	FT3	1	4.310		0.150	0.65	
	FT4	1	4.720		0.150	0.71	
	FT6	2	5.120		0.150	1.54	
	FT7	2	4.610		0.150	1.38	
					TOTAL	8.39	SQM
(b)	COLUMN						
	C1	8	0.920		1.550	11.41	
	C2	4	1.160		1.550	7.19	
	C1	8	0.920		3.075	22.63	
	C2	4	1.160		3.075	14.27	
					TOTAL	55.50	SQM
(c)	Plinth band						
	GRADE BEAM						
	GB1	1	8.030		0.460	3.69	
		1	9.270		0.460	4.26	
		1	2.170		0.460	1.00	
		2	2.090		0.460	1.92	
	GB2	1	7.250		0.460	3.34	
		1	8.175		0.460	3.76	
		2	2.110		0.460	1.94	
	LINTEL BAND						
	G1	1	3.160		0.300	0.95	
	W1	3	1.360		0.300	1.22	
	W2	2	1.360		0.300	0.82	
	W3	1	1.360		0.300	0.41	
	Beams						
	B1	1	8.030		1.130	9.07	
		1	9.270		1.130	10.48	
		1	2.170		1.130	2.45	
		2	2.090		1.130	4.72	
	B2	1	7.250		1.130	8.19	
		1	8.175		1.130	9.24	
		2	2.110		1.130	4.77	
					TOTAL	72.23	SQM
(d)	SLAB						
		1	9.455	2.860		27.04	
		1	7.720	2.860		22.08	
	PROJECTION						
	REAR SIDE	1	2.940	0.450		1.32	
		1	2.745	0.450		1.24	
	RIGHT SIDE	1	2.300	0.450		1.04	
		1	1.465	0.450		0.66	
		1	1.650	0.450		0.74	
					G.TOTAL	54.12	SQM
31	Providing and fixing factory made uPVC door frame made of Upvc						
	GB1	1	7.200			7.20	
	GB2	2	6.300			12.60	
	GB2	3	5.100			15.30	
	GP1,GP2	2	6.900			13.80	
	W1	3	6.750			20.25	
	W2	2	8.850			17.70	
	W3	1	7.650			7.65	
					TOTAL	94.50	RM.
32	P & fixing factory made uPVC door white colour						
	GB1	1	1.050		2.400	2.52	
	GB2	2	0.900		2.400	4.32	
	GB2	3	0.750		2.100	4.73	
	GP1,GP2	2	0.750		2.400	3.60	
					TOTAL	15.17	SQM

33	P/F of uPVC glazed windows						
	W1	3	0.900		1.650	4.46	
	W2	2	0.900		1.950	3.51	
	W3	1	0.900		1.950	1.76	
					TOTAL	9.73	SQM
34	Providing and fixing panelling or panelling and						
	GB1	1	1.650		2.400	3.96	
	GB2	2	0.750		2.400	3.60	
	GB2	3	0.750		2.100	4.73	
	GP1,GP2	2	1.350		2.400	6.48	
	W1	3	0.900		1.650	4.46	
	W2	2	0.900		1.950	3.51	
	W3	1	0.900		1.950	1.76	
					TOTAL	28.50	SQM
35	STRUCTURAL GLAZING						
(a)	P/S aluminium extured tubuler and section for structural glazing						
	GLD1	1	3.500		2.550	8.93	
					TOTAL	8.93	SQM
	K.G. /Sqm.	8.93	@	6.500		58.01	
					TOTAL	58.01	KG
(b)	Designing, fabricating, testing, protection, installing and fixing in position						
	GLAZING						
		1	8.93		TOTAL	8.93	SQM
(c)	Providing, assembling and supplying vision glass pannels						
	GLAZING						
		1	8.93		TOTAL	8.93	SQM
(d)	Extra for openable side						
	3% of glazing area	1	8.93	@	0.300	2.68	SQM
36	Providing and fixing on wall face unplasticised-Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.						
	110 mm					20.00	RM
37	Providing and fixing on wall face unplasticised PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.						
	Bend 87.5 degree						
	110 mm Bend					4.00	Each
	Shoe (Plain)						
	110 mm Shoe					4.00	Each
38	Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with MS screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.						
	110 mm					10.00	Each

39	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over PVC sheet 1m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement,punning,rounding the edges and making and finishing the outlet complete.						10.00	Each
40	M.S.Work in D/W							
	Truss Works							
		1	12.150	4.000	20.000		972.00	
		1	4.800	4.000	20.000		384.00	
		1	8.000	0.920	20.000		147.20	
					TOTAL		1503.20	kg
41	Polycarbonate sheet							
	TOP SHEET	1	12.150	4.000			63.60	
		1	4.800	4.000			34.20	
		1	8.000	0.920			22.36	
					TOTAL		120.16	SQM
42	Steel painting							
		1	12.150	4.000	1.000		48.60	
		1	4.800	4.000	1.000		19.20	
		1	8.000	0.920	1.000		7.36	
					TOTAL		75.16	SQM
43	PATHWAY							
		1	7.580	2.500			18.95	
		2	1.525	1.625			4.96	
					TOTAL		23.91	Sqm.
44	Vitrified flooring							
	CUBICLES 1 & 2,3	1	8.990	2.400			21.58	
		1	7.490	2.400			17.98	
					TOTAL		39.56	SQM
45	Vitrified tiles Skirting							
	CUBICLES 1 & 2,3	1	8.290		0.150		1.24	
		1	2.400		0.150		0.36	
		1	9.850		0.150		1.48	
					TOTAL		3.08	SQM
46	Granite flooring							
	VER.	1	1.205	3.450			4.16	
		1	1.205		0.150		0.18	
					TOTAL		4.34	SQM
47	Vinyl flooring							
	COLLABORATION	1	5.190	7.375			38.28	
		1	3.120	0.450			1.40	
	SKIRTING	1	26.960		0.150		4.044	
					TOTAL		43.72	SQM