

BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY CENTRAL LIBRARY BUILDING AT MGM EDUCATIONAL PLOT, CHHATRAPATI SAMBHAJI NAGAR					
Up to Basement floor level					
S.No	Description	Unit	Rate	Up to Basement floor	
				Qty	Amount
1)	EARTH WORK				
i)	Excavation in all type of soils for basement & column foundation up to required depth and any width including all heights/ lift and disposal of surplus earth shoring of foundation trenches dewatering all complete.				
	From NGL to soft soil (0.00 to 2.0m depth)	Cu.m		0.00	
	soft soil to soft morum (2.0 to 3.5m depth)	Cu.m		0.00	
	soft morru to hard morrum (3.5m to 5.35m)	Cu.m		0.00	
	Hard morrum to hard rock (for Columns footing foundation up to required depth)	Cu.m		0.00	
ii	Water proofing :- Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for underground structures as directly by engineer-in-charge and consisting of: (i) 1st layer of 22 to 25 mm thick approved and specified rough kota stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement: 3 course sand) including applying of twice (at base and top of mortar) cement slurry @ 2.2kg/m ² (each time) nixed with water proofing compound conforming to IS:2645 in the recommended proportion over the levelling course (levelling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 course sand) mixed with water proofing compound in recommended proportions. (iii) finishing top with stone aggregate of 10mm to 12 nominal size spreading @ 8 cudm/ sqm. thoroughly embedded in the 2nd layer.				
i)	Using rough kota stone	Sq.mt.		1702.00	
	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete:				
i)	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Rmt.			
ii)	Dumb bell with central bulb (180 mm wide, 8 mm thick)	Rmt.			

iii)	Kickers (320 mm wide, 5 mm thick)	Rmt.			
iii)	providing dry trap/granite/quartzite/gneiss, rubble stone solling in 15 cm to 20 cm thick layers including hand packing and comaction etc complete	Cu.m		256.34	
iv)	Filling foundation with spoils or soils i.e. excavated earth of any kind except B.C. soil made available for filling etc. including ramming and watering all compete.	Cu.m		4593.50	
v)	Supplying and filling in plinth with morrum, under floors including, watering, ramming consolidating and dressing complete with all respect.	Cu.m		0.00	
	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) by treating the bottom surface and sides of excavation at the rate of 5 litres of emulsion concentrate of 1.0 percent of chlorophyrifos per square meter of surface area covering 10 years guarantee on bond paper	Sq.mt		1700.00	
vi	Providing preconstructional antitermite treatment as per I.S.6313 (Part-II) treatment by treating the backfillin immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 percent of clorophyrifos per One Square Metre of vertical surface area covering 10 years guarantee on bond paper.	Sq.mt		1700.00	
vi	Providing preconstruction anti termite treatment as per I.S.6313 (Part-II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate at 1.0 percent of clorophyrifos per One Square Metre of surface area covering ten years guarantee on bond paper.	Sq.mt		216.00	

vii)	Providing and applying anti rust compound to all reinforcement to be used for RCC work to all stop corrosion in reinforcement of proposed MGM library building. The anti-rust compound must be applied to reinforcement surface by dipping or spraying on clean and dust free, corrosion free surface. The anti-rusting compound must be inorganic acidic in nature, non-toxic, non-flaming and water based compound. The anti-rusting compound on applying must from a 3 to 3.5-micron thickness of nano coat on metal surface. The compound must increase the bond strength between concrete and reinforcement, which balance the compressive strength of concrete. The rust preventive steel gourd nano coat compound to take care of all kind of corrosion issues in reinforcement steel. Application method for reinforcement: clean the rust surface by wire brush or sand, dust off the surface with air blower and clean the surface with dry cloth. Applying the anti-rusting compound by applying in constructed channel or half round gutter of 200 dia of length of 15.0m in duct	Ton	510.00		
2)	CONCRETE WORK				
i)	PCC M -15 work :- Providing and laying in situ cement concrete 1:2:4 (1 cement, 2 sand, 4 aggregate) with up to 40mm black trap stone aggregate in foundations/ plinth and bedding including spreading, ramming, consolidation curing complete.				
	M - 15 - 1:2:4 (1 Cement : 2coarse sand : 4 graded stone aggregate 40 mm nominal size). For below foundation	Cu.m	169.91		
ii)	Providing and laying HDPE plastic sheet below NGL level	Sq.mt	1702.50		
iii)	Concrete grade m-40 :- Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 400kg. of cement per Cum. of concrete.				
a//	UP TO PLINTH LEVEL STRUCTURE				
	For Columns footing	Cu.m	680.39		
	For Basement raft and tank base slab	Cu.m	498.49		
	For Columns up to basement floor level	Cu.m	10.97		

	For RCC wall of lift pit and tank	Cu.m		52.39	
	For Tank and sump cover slab	Cu.m		19.25	
b//	ABOVE PLINTH LEVEL SUPERSTRUCTURE	Cu.m		0.00	
iv)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		2.00	
v)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		107226.95	
	Hard drawn steel wire	Kg.		1608.40	
vi)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Foundations, footings, bases of columns, etc.	Sq.mt		803.70	
b//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		117.09	
c//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		385.01	
d//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		54.31	
3)	<u>MASONRY WORK</u>				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height /position including raking of joints, curing and erection of scaffolding with all complete.	cum		2.00	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm			
4)	<u>FINISHING</u>				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt			

ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		229.34	
iii)	Ceiling area :- Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		440.31	
5)	<u>WATER PROOFING</u>				
i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt			
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt			

	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM JNEC CAMPUS, AURANGABAD					
BASEMENT FLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount
i)	PCC M -15 work :- Providing and laying in situ cement concrete 1:2:4 (1 cement, 2 sand, 4 aggregate) with up to 40mm black trap stone aggregate in foundations/ plinth and bedding including spreading, ramming, consolidation curing complete.				
	M - 15 - 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size). For below foundation	Cu.m		6.50	
ii)	Providing and laying HDPE plastic sheet below NGL level	Sq.mt		208.20	
iii)	Concrete grade m-40 :- Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 400kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (basement floor to stilet floor)	Cu.m		60.32	
	For Basement floor Retaining wall	Cu.m		121.51	
	For basement floor roof beams	Cu.m		73.62	
	For basement floor roof slabs	Cu.m		142.25	
	For basement floor staircase	Cu.m		3.14	
iv)	Concrete M- 20 :- Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		2.00	
v)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		46097.70	
	Hard drawn steel wire	Kg.		691.47	
vi)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				

a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		298.70	
b//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		1031.66	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		554.45	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		790.27	
e//	For - staircase	Sq.mt		21.00	
2)	MASONRY WORK				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height /position including raking of joints, curing and erection of scaffolding with all complete.	cum		9.42	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		39.90	
iii)	Providing and laying Autoclaved Aerated Concrete block of size 600X230X200mm. The block shall be fixed with adhesive of approved make in all external walls superstructure at any height/ position including raking of joints and erection of scaffolding with all complete.	cum		0.00	
iv)	Providing and laying Autoclaved Aerated Concrete block of size 600X200X150mm. The block shall be fixed with adhesive of approved make in all external walls superstructure at any height/ position including raking of joints and erection of scaffolding with all complete.	cum		0.00	
v)	Providing and laying Autoclaved Aerated Concrete block of size 600X200X115mm. The block shall be fixed with adhesive of approved make in all toilet partition walls superstructure at any height/ position including raking of joints and erection of scaffolding with all complete.	sqm		0.00	
3)	FINISHING				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		1139.42	

ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		794.99	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		1232.00	
4)	<u>WATER PROOFING</u>				
i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt			
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt			
	<u>FINISHING ITEM</u>				
2)	<u>DOORS AND WINDOWS</u>				
i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.00	
ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixedthree track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		17.28	

v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking	Sq.mt		8.64	
4)	FLOORING WORK				
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		897.90	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		204.50	
ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		0.00	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		0.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		15.68	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		0.00	

vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		0.00	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		0.00	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		0.00	
viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		27.53	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		72.00	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		0.00	
5)	<u>PAINTING</u>				
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothening the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		2371.42	

ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		2371.42	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		794.99	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		43.20	
6)	<u>S.S. RAILING</u>				
i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		15.44	
7)	<u>STEEL WORK</u>				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		432.00	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		7.92	
8)	<u>HARDWARE</u>				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		0.00	
ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		0.00	
	Total				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM INEC CAMPUS. CHHATRAPATI SAMBHAJI NAGAR					

STILT FLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount
i)	Concrete grade m-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 400kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (Stilt floor to 1st floor)	Cu.m		62.60	
	For Stilt floor RCC wall	Cu.m		20.02	
	For Stilt floor roof beams	Cu.m		82.58	
	For Stilt floor roof slabs	Cu.m		146.61	
	For Stilt floor staircase	Cu.m		6.14	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		3.71	
iii)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		40379.58	
	Hard drawn steel wire	Kg.		605.69	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		321.54	
b//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		216.66	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		637.19	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		814.49	
e//	For - staircase	Sq.mt		43.56	
2)	MASONRY WORK				

i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height / position including raking of joints, curing and erection of scaffolding with all complete.	cum		27.05	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		134.16	
3)	<u>FINISHING</u>				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		754.09	
ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		369.18	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		1244.22	
4)	<u>WATER PROOFING</u>				
i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt		42.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		49.16	
	FINISHING ITEM				
2)	<u>DOORS AND WINDOWS</u>				

i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.29	
ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		15.12	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixed three track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		15.12	
v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking	Sq.mt		7.56	
3) GLASS PARTITION & GLASS DOOR					
i)	12mm thk toughened fixed glass, & partition: - Providing and fixing using 12mm thick toughened glass including fixing with all necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		12.00	
ii)	Providing and fixing frameless glazed door shutters using 12mm thick toughened glass including fixing stainless steel pivot with clamps at top, all patch fittings, floor springs, handles, necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		4.20	
iii)	Providing and fixing UPVC SLIDING DOOR at Entrance as per dwg	Sq.mt			
4) FLOORING WORK					
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		103.97	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		135.90	

ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		651.20	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		252.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		34.49	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		42.30	
vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		8.25	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		1.95	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		202.55	

viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		27.53	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		29.40	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		45.00	
5) PAINTING					
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothing the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		1795.77	
ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		1795.77	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		369.18	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		37.80	
6) S.S. RAILING					

i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		15.44	
7)	STEEL WORK				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		378.00	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		7.92	
8)	HARDWARE				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		3.00	
ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		6.00	
	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM JNEC CAMPUS, CHHATRAPATI SAMBHAJI NAGAR					
1st FLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount

i)	Concrete grade m-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 350kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (1st floor to 2nd floor)	Cu.m		68.29	
	For 1st floor RCC wall	Cu.m		30.38	
	For 1st floor roof beams	Cu.m		229.75	
	For 1st floor roof slabs	Cu.m		71.69	
	For 1st floor staircase	Cu.m		6.47	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		5.09	
iii)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		51636.29	
	Hard drawn steel wire	Kg.		774.54	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		350.77	
b//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		318.76	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		2130.14	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		651.69	
e//	For - staircase	Sq.mt		46.58	
2)	MASONRY WORK				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height / position including raking of joints, curing and erection of scaffolding with all complete.	cum		50.16	

ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		149.98	
iii)	Providing and laying Autoclaved Aerated Concrete block of size 600X230X200mm. The block shall be fixed with adhesive of approved make in all external walls superstructure at any height/ position including raking of joints and erection of scaffolding with all complete.	cum		0.00	
iv)	Providing and laying Autoclaved Aerated Concrete block of size 600X200X150mm. The block shall be fixed with adhesive of approved make in all external walls superstructure at any height/ position including raking of joints and erection of scaffolding with all complete.	cum		0.00	
v)	Providing and laying Autoclaved Aerated Concrete block of size 600X200X115mm. The block shall be fixed with adhesive of approved make in all toilet partition walls superstructure at any height/ position including raking of joints and erection of scaffolding with all complete.	sqm		0.00	
3)	<u>FINISHING</u>				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		1155.75	
ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		441.41	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		2454.65	
4)	<u>WATER PROOFING</u>				

i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt		42.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		49.16	
	FINISHING ITEM				
2)	DOORS AND WINDOWS				
i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.29	
ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		15.12	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixed three track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		7.38	
v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking	Sq.mt		3.69	
3)	GLASS PARTITION & GLASS DOOR				
i)	12mm thk toughened fixed glass, & partition: - Providing and fixing using 12mm thick toughened glass including fixing with all necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		24.00	
ii)	Providing and fixing frameless glazed door shutters using 12mm thick toughened glass including fixing stainless steel pivot with clamps at top, all patch fittings, floor springs, handles, necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		8.40	

iii)	Providing and fixing UPVC sliding door at Entrance as per dwg	Sq.mt			
4)	FLOORING WORK				
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		73.17	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		110.50	
ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		847.20	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		232.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		34.49	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		42.30	

vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		8.25	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		1.95	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		202.55	
viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		27.53	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		29.40	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		45.00	
5)	PAINTING				
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothening the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		3407.85	

ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		3407.85	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		441.41	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		18.45	
6)	<u>S.S. RAILING</u>				
i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		15.44	
7)	<u>STEEL WORK</u>				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		184.50	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		7.92	
8)	<u>HARDWARE</u>				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		3.00	

ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		6.00	
	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM JNEC CAMPUS, CHHATRAPATI SAMBHAJI NAGAR					
2ndFLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount
i)	Concrete grade m-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 350kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (2nd floor to 3rd floor)	Cu.m		68.29	
	For 2nd floor RCC wall	Cu.m		30.38	
	For 2nd floor roof beams	Cu.m		90.91	
	For 2nd floor roof slabs	Cu.m		243.01	
	For 2nd floor staircase	Cu.m		6.47	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		5.09	
iii)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		55762.28	
	Hard drawn steel wire	Kg.		836.43	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		350.77	

b//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		318.76	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		355.19	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		972.05	
e//	For - staircase	Sq.mt		46.58	
2)	<u>MASONRY WORK</u>				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height / position including raking of joints, curing and erection of scaffolding with all complete.	cum		50.16	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		149.98	
3)	<u>FINISHING</u>				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		1155.75	
ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick workand curing all complete.	Sq.mt		441.41	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		1175.16	
4)	<u>WATER PROOFING</u>				

i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt		42.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		49.16	
	FINISHING ITEM				
2)	DOORS AND WINDOWS				
i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.29	
ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		15.12	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixed three track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		7.38	
v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking	Sq.mt		3.69	
3)	GLASS PARTITION & GLASS DOOR				
i)	12mm thk toughened fixed glass, & partition: - Providing and fixing using 12mm thick toughened glass including fixing with all necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		24.00	
ii)	Providing and fixing frameless glazed door shutters using 12mm thick toughened glass including fixing stainless steel pivot with clamps at top, all patch fittings, floor springs, handles, necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		8.40	

iii)	Providing and fixing UPVC SLIDING DOOR at Entrance as per dwg	Sq.mt		0.00	
4)	FLOORING WORK				
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		73.17	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		110.50	
ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		847.20	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		232.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		34.49	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		42.30	

vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		8.25	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		1.95	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		202.55	
viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		27.53	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		29.40	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		45.00	
5)	PAINTING				
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothing the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		3407.85	

ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		3407.85	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		441.41	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		18.45	
6)	<u>S.S. RAILING</u>				
i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		15.44	
7)	<u>STEEL WORK</u>				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		184.50	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		7.92	
8)	<u>HARDWARE</u>				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		3.00	

ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		6.00	
	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM JNEC CAMPUS, CHHATRAPATI SAMBHAJI NAGAR					
3rd FLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount
i)	Concrete grade m-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 350kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (3rd floor to 4th floor)	Cu.m		62.60	
	For 3rd floor RCC wall	Cu.m		28.56	
	For 3rd floor roof beams	Cu.m		82.58	
	For 3rd floor roof slabs	Cu.m		155.35	
	For 3rd floor staircase	Cu.m		6.47	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		5.09	
iii)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		42616.82	
	Hard drawn steel wire	Kg.		639.25	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		321.54	

b//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		302.93	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		637.19	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		863.06	
e//	For - staircase	Sq.mt		46.58	
2)	<u>MASONRY WORK</u>				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height / position including raking of joints, curing and erection of scaffolding with all complete.	cum		44.30	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		134.16	
3)	<u>FINISHING</u>				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		1063.97	
ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick workand curing all complete.	Sq.mt		406.31	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		1604.95	
4)	<u>WATER PROOFING</u>				

i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt		42.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		49.16	
	FINISHING ITEM				
2)	DOORS AND WINDOWS				
i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.29	
ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		15.12	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixed three track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		7.38	
v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking	Sq.mt		3.69	
3)	GLASS PARTITION & GLASS DOOR				
i)	12mm thk toughened fixed glass, & partition: - Providing and fixing using 12mm thick toughened glass including fixing with all necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		24.00	
ii)	Providing and fixing frameless glazed door shutters using 12mm thick toughened glass including fixing stainless steel pivot with clamps at top, all patch fittings, floor springs, handles, necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		8.40	

iii)	Providing and fixing UPVC Sliding door at Entrance as per dwg	Sq.mt		0.00	
4)	FLOORING WORK				
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		73.17	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		110.50	
ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		847.20	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		232.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		34.49	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		42.30	

vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		8.25	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		1.95	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		202.55	
viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		27.53	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		29.40	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		45.00	
5)	<u>PAINTING</u>				
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothening the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		2466.38	

ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		2466.38	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		406.31	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		18.45	
6)	<u>S.S. RAILING</u>				
i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		15.44	
7)	<u>STEEL WORK</u>				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		184.50	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		7.92	
8)	<u>HARDWARE</u>				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		3.00	

ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		6.00	
	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM INEC CAMPUS CHHATRAPATI SAMBHAI NAGAR					
4th & 5th FLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount
i)	Concrete grade M-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 350kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (4th floor to 6th floor)	Cu.m		125.20	
	For 4th & 5th floor RCC wall	Cu.m		67.31	
	For 4th & 5th floor roof beams	Cu.m		358.41	
	For 4th & 5th floor roof slabs	Cu.m		161.91	
	For 4th & 5th floor staircase	Cu.m		12.94	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		10.18	
iii)	Providing and laying /fixing Reinforcement				
	Cold twisted bars	Kg.		92171.89	
	Hard drawn steel wire	Kg.		1382.58	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		643.08	
b//	For RCC pardi, Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		605.87	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		3212.69	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		1471.88	
e//	For - staircase	Sq.mt		93.15	

2)	MASONRY WORK				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height / position including raking of joints, curing and erection of scaffolding with all complete.	cum		88.60	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		268.33	
3)	FINISHING				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		2127.95	
ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		812.63	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		4191.36	
4)	WATER PROOFING				
i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt		84.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		98.31	
	FINISHING ITEM				
2)	DOORS AND WINDOWS				

i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.59	
ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		30.24	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixed three track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		14.76	
v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking	Sq.mt		7.38	
3) GLASS PARTITION & GLASS DOOR					
i)	12mm thk toughened fixed glass, & partition: - Providing and fixing using 12mm thick toughened glass including fixing with all necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		48.00	
ii)	Providing and fixing frameless glazed door shutters using 12mm thick toughened glass including fixing stainless steel pivot with clamps at top, all patch fittings, floor springs, handles, necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		16.80	
iii)	Providing and fixing UPVC Sliding door at Entrance as per dwg	Sq.mt			
4) FLOORING WORK					
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		146.35	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		221.00	

ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		1694.40	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		464.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		68.97	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		84.60	
vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		16.50	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		3.90	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		405.09	

viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		55.05	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		58.80	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		90.00	
5) PAINTING					
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothing the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		5914.22	
ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		5914.22	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		812.63	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		36.90	
6) S.S. RAILING					

i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		30.87	
7)	STEEL WORK				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		369.00	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		15.84	
8)	HARDWARE				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		6.00	
ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		12.00	
	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM JNEC CAMPUS, CHHATRAPATI SAMBHAJI NAGAR					
6th & 7th FLOOR					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount

i)	Concrete grade M-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 350kg. of cement per Cum. of concrete.				
a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (6th floor to 8th floor)	Cu.m		125.20	
	For 6th & 7th floor RCC wall	Cu.m		57.13	
	For 6th & 7th floor roof beams	Cu.m		331.23	
	For 6th & 7th floor roof slabs	Cu.m		233.43	
	For 6th & 7th floor staircase	Cu.m		12.28	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		10.18	
iii)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		96428.06	
	Hard drawn steel wire	Kg.		1446.42	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns. RCC pardi	Sq.mt		643.08	
b//	For RCC pardi , Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		605.87	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		1919.73	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		1434.68	
e//	For - staircase	Sq.mt		87.12	
	2) MASONRY WORK				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height / position including raking of joints, curing and erection of scaffolding with all complete.	cum		85.15	

ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		268.33	
3)	<u>FINISHING</u>				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		2001.06	
ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		775.49	
iii)	Ceiling area :-Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		2947.86	
4)	<u>WATER PROOFING</u>				
i)	Providing and laying water proofing on sunken slab by providing base coat with water proofing compound of 20 to 25mm thick on clean surface with curing. the average 100 mm thick (laid to slope as directed) brick bat koba for water proofing. the top layer of C:M 25 to 35mm laid to slope of C:M 1:3 with standard make water proofing chemical compound as specified including curing testing etc all complete.	Sq.mt		84.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		98.31	
	FINISHING ITEM				
2)	<u>DOORS AND WINDOWS</u>				
i)	Providing and fixing of specified sawed and planed size 2nd class wood frame work for doors with appropriate rebate as per detailed drawing, fixed in position with 200 mm MS holdfast made out of 25 x 5 mm flat with 1 coat of primer all complete.	Cu.mt		0.59	

ii)	Providing and fixing single leaf 35 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		0.00	
iii)	Providing and fixing single leaf 30 mm flush door with both side laminated including hinges complete with all respect	Sq.mt		30.24	
iv)	Providing and fixing in position purpose made medium grade aluminium section open able and fixed three track windows aluminium anodized sections of approved color with rubber gaskets, aluminium beading having necessary holes to take cadmium plated screws, holdfast, all necessary fittings bolts and nuts wherever required including cost of float glass of 5 mm as per detailed drawings all complete.	Sq.mt		14.76	
v)	Providing and fixing Mosquito net panel with SS net filler on outer track of ward block, rooms, and other area complete with all accessory and locking.	Sq.mt		7.38	
3) GLASS PARTITION & GLASS DOOR					
i)	12mm thk toughened fixed glass, & partition: ± Providing and fixing using 12mm thick toughened glass including fixing with all necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		48.00	
ii)	Providing and fixing frameless glazed door shutters using 12mm thick toughened glass including fixing stainless steel pivot with clamps at top, all patch fittings, floor springs, handles, necessary masonry / glass cutting, making holes, etc. complete as per detailed drawings complete with all respect	Sq.mt		16.80	
iii)	Providing and fixing UPVC Sliding door at Entrance as per dwg	Sq.mt			
4) FLOORING WORK					
i)	Providing and laying in position granite any pattern and position at entrance porch in CM 1:10 bedding up to 30mm thick and including cutting, rubbing, cleaning, curing, cement floating and filling joints with neat cement slurry all complete.	Sq.mt		87.95	
a//	Providing and fixing in position 100mm granite stone skirting with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		170.60	

ii)	Providing & laying in position vitrified tile of any size and approved make in any shape or design on bedding of C:M 1:10 @30mm thick over which 8 to 10mm plaster (C:M 1:6) to be provided. the plaster shall be kept open for 2 days for curing. The tile shall be fixed with tile adhesive of approved make on under surface of 3mm thick with spacers including cutting, fixing and maintaining appropriate groove thickness and filling the same with approved grout including cleaning of surface all complete.				
a//	1000X1000 (Basic rate of tile is @ Rs. 800 Sq.m)	Sq.mt		1632.40	
b//	Providing and fixing in position 100mm vitrified tile skirting up to 10mm thick with 1:3 C:M backing and appropriate tile adhesive including dressing, cutting filling the joints with white cement slurry mixed with appropriate pigment cleaning the surface of excess slurry. all complete	Rmt		478.00	
iv)	Providing and fixing granite stone (basic rate of granite stone is @ Rs. 1400/Sq.m) tread with dressed Round edge and riser fixed with cement slurry including cutting, cleaning, curing etc. all complete.	Sq.mt		68.97	
v)	Providing & laying in position vitrified tile of approved make in any shape or design on C:M 1:4 bedding upto 30mm thick. and including cutting, fixing appropriate thick. tile adhesive of approved make on under surface and 3mm thick. spacers and filling the joints uniformly with grout, cleaning of surface all complete.				
a//	600X600X10 for WC (Basic rate of tile is @ Rs. 650/ Sq.m)	Sq.mt		84.60	
vi)	Providing and laying polished granite stone slabs as mentioned in detailed drawings up to 600 mm width for kitchen platform with rounding, nosing on a bed of 18 to 20 mm thick cement mortar 1:4 including cement float filling joints with neat cement slurry mixed with pigment to match the stone including polishing and cleaning all complete.	Rmt		16.50	
vii)	Providing and fixing wall dado of ceramic tile of approved make in any shape or design on cement plaster 1:4 (of required thickness) and with neat cement slurry of appropriate thick on the under surface including cutting, filling of joints with white cement slurry, curing and cleaning of surface all complete.				
a//	600X600 for kitchen wall dado (Basic rate of tile is @ Rs. 700/ Sq.m)	Sq.mt		3.90	
b//	60X600 for toilet & wash area wall dado (Basic rate of tile is @ Rs.650/ Sq.m)	Sq.mt		401.19	

viii)	Providing and fixing in position in mirror polished granite of approved colour in cladding on lift shaft in C:M 1:3 and tile adhesive with appropriate thick. including cutting, grinding, erection of scaffolding, edging and rounding, polishing and filling of joints with appropriate grout and cleaning of surface all complete.	Sq.mt		55.05	
ix)	Providing and fixing in position granite stone of window jambs frame top, bottom and sides. The marble jamb shall be fixed with stone adhesive/white cement of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		58.80	
x)	Providing and fixing in position granite stone of door frame top and sides. The granite frame shall be fixed with tile adhesive of approved make on under surface of 3mm thick. including cutting, grinding, edging rounding, and filling of joints with white cement slurry mixed with appropriate pigment and cleaning the surface of excess slurry complete	Rmt		90.00	
5) PAINTING					
i)	Cement Putty :- Providing and applying cement based putty (of approved brand) in 2 coats on all internal plaster surfaces and ceiling surface with erection of scaffolding. Smoothing the surface, rubbing, and cleaning of surface with water, repairing of cracks with fillers to give uniform surface.	Sq.mt		4547.73	
ii)	Acrylic emulsion :- Providing and applying acrylic emulsion of approved colour and brand in two or more coats on all internal walls and ceiling surfaces with erection of scaffolding including brushing and brooming, cleaning the surface all complete. (excluding dado)	Sq.mt		4547.73	
iii)	Exterior grade cement base paint on External area :- Providing & applying cement based paint of approved colors and brand in two or more uniform coats on all exterior surfaces over one coat of white cement applied by brush including brushing, brooming and cleaning the surface with erection of scaffolding all complete.	Sq.mt		775.49	
iv)	Providing and applying in two coats or more coats of synthetic enamel on all M.S. surfaces including removing of rust with chemical rounding, rubbing and cleaning of surface all complete.	Sq.mt		36.90	
6) S.S. RAILING					

i)	Providing and fabrication 304 grade S.S. railing as per design with all balustrade, guard bars and hand rails and fitting with cutting, grinding with all complete.	Rmt		30.87	
7)	STEEL WORK				
i)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg.		369.00	
ii)	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners all necessary fittings complete, including applying a priming coat of approved steel primer.				
iii)	Using flats 30x6mm for diagonal braces and central cross piece.	sq.mt		15.84	
8)	HARDWARE				
i)	Providing & fixing door Stainless steel accessories for Main doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, mortise lock with handles, Magnetic door stopper, 230mm length tower bolt, canceled type (Where mortise lock is not provided) aldrops & Handle with SS screws of appropriate length and diameter complete with all respect.	Nos.		6.00	
ii)	Providing & fixing door Stainless steel accessories for toilet doors, with 125mm length 2.5/3mm thick SS hinges 5 Nos with 5nos screws per doors of appropriate make, dad lock and baby latch lock, 230mm length tower bolt, canceled type with SS screws of appropriate length and diameter complete with all respect.	Nos.		12.00	
	TOTAL (A)				
BILL OF QUANTITY OF CIVIL & FINISHING WORK OF PROPOSED MGM UNIVERSITY LIBRARY BUILDING AT MGM JNEC CAMPUS, CHHATRAPATI SAMBHAJI NAGAR					
TERRACE FLOOR WITH STAIRCASE TOWER & MR & OH TANK					
1)	CONCRETE WORK	Unit	Rate	Qty	Amount
i)	Concrete grade M-40 :-Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including all lift of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-40 grade reinforced cement concrete by using 350kg. of cement per Cum. of concrete.				

a//	ABOVE PLINTH LEVEL SUPERSTRUCTURE				
	For Columns (6th floor to 8th floor)	Cu.m		27.00	
	For 6th & 7th floor RCC wall	Cu.m		29.00	
	For 6th & 7th floor roof beams	Cu.m		11.00	
	For 6th & 7th floor roof slabs	Cu.m		26.00	
	For 6th & 7th floor staircase	Cu.m		0.00	
ii)	Concrete M- 20 :-Providing and laying in situ cement concrete M-20(1:1.5:3) at all positions in lintel chajja and coping etc with mechanical vibrator compactor including curing item inclusive of lift and lead excluding the cost of centering, shuttering, finishing and reinforcement.	Cu.m		6.00	
iii)	Providing and laying /fixing Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Cold twisted bars	Kg.		11811.00	
	Hard drawn steel wire	Kg.		177.17	
iv)	Providing and laying of Centering and shuttering including strutting, propping etc. and removal of form for :				
a//	For Square Columns, rectangular columns, circular columns, RCC pardi	Sq.mt		142.00	
b//	For RCC pardi, Plinth beams, Lintels, chajja, coping beam etc.	Sq.mt		250.00	
c//	For - Roof beams, cantiliver beams with water proof ply 12mm thick.	Sq.mt		103.00	
d//	For Suspended floors, roofs slab, landings, balconies and access platform Shelves	Sq.mt		124.00	
e//	For - staircase	Sq.mt		0.00	
2)	MASONRY WORK				
i)	Providing and constructing second class well burnt brick masonry 230 mm thick in CM 1:6 (1 cement, 6 sand) in all external walls superstructure at any height /position including raking of joints, curing and erection of scaffolding with all complete.	cum		38.00	
ii)	Providing and constructing second class well burnt brick masonry 115 mm thick in CM 1:4 (1 cement, 4 sand) in all internal walls, superstructure at any height/ position including racking of joints, scaffolding, curing all complete.	sqm		39.00	
3)	FINISHING				
i)	Internal plaster :-Providing and applying cement plaster up to 15mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all interior surfaces with erection of scaffolding in all positions including all moldings, grooves, edges cornices, champers, fixing of wire mash over joint of beam/col & brick work and curing all complete.	Sq.mt		168.00	

ii)	External Plaster :- Providing and applying cement plaster up to 20mm thick in two coats first in CM 1:5 & second in 1:4 with sponge finish on all exterior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, projections, edges cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		188.00	
iii)	Ceiling area :- Providing and applying cement plaster up to 8mm thick in CM 1:4 with sponge finish on all interior areas and surfaces with erection of scaffolding in all positions including all moldings, grooves, cornices, champers, fixing of wire mash over joint of beam & brick work and curing all complete.	Sq.mt		816.00	
5)	<u>INTRIGATED WATERPROOFING</u>				
i)	Providing and laying 50 to 18mm thk laid to slope intrigated water proofing of C:M 1:5 with standard make water proofing chemical compound as specified. The water proofing work must complete over concrete slab including finishing and providing thared (rope) groove on at interval of 600X600 complete with all respect	Sq.mt		988.00	
ii)	Water proofing on sides of toilet and wash area wall up to 600mm ht.	Sq.mt		67.00	
6)	Stressing, and grouting post-tensioning (PT) cables				
	Providing, supplying, installing, stressing, and grouting post-tensioning (PT) cables in RCC beams and slabs, including HDPE sheathing, anchorages, wedges, ducts, couplers (if required), chairs/supports, stressing operations with hydraulic jacks, cement grout injection, cutting of strand ends, protection caps, and all labour, materials, equipment, testing, and incidental works, complete as per approved drawings and specifications.	Sq.mt.		10294.00	
	TOTAL (A)				
	Grand Total				