

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR CIVIL WORKS								
SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
<b>1</b>	<b>2</b>	<b><u>EARTH WORKS</u></b>						
<b>1.1</b>	<b>1.1</b>	Carriage of materials by mechanical transport including loading, unloading and stacking						
<b>1.1.1</b>	<b>1.1.1</b>	Lime, moorum, building rubbish up to 5 KM	CUM	500				
<b>1.1.2</b>	<b>1.1.2</b>	Earth up to 5 km	CUM	1154				
<b>1.2</b>	<b>2.1</b>	Earth work in <b>surface excavation</b> not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed :						
<b>1.2.1</b>	<b>2.1.1</b>	All kinds of soil	100 Sqm	22				
<b>1.3</b>	<b>2.6</b>	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.						
<b>1.3.1</b>	<b>2.6.1</b>	All kinds of soils	CUM	16925				
<b>1.4</b>	<b>2.7</b>	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.						
<b>1.4.1</b>	<b>2.7.1</b>	Ordinary rock	CUM	1073				

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1.5	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :						
1.5.1	2.10.1	All kinds of soil.						
1.5.2	2.10.1.2	Pipes, cables, etc. exceeding 80mm dia but not exceeding 300mm dia.	RM	656				
1.6	2.18	Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered) :						
1.6.1	2.18.3	Depth exceeding 3 m but not exceeding 4.5 m.	SQM	835				
1.7	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	CUM.	2998				
1.8	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.						
1.8.1	2.26.1	All kinds of soil	CUM.	37281				
1.9	2.27	Supplying and filling in plinth with river sand under floors including, watering, ramming consolidating and dressing complete.	CUM	1152				
1.10	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 SQM	33				

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1.11	2.33	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.						
1.11.1	2.33.1	Beyond 30 cm girth upto and including 60 cm girth	EACH	10				
1.11.2	2.33.2	Beyond 60 cm girth upto and including 120 cm girth	EACH	5				
		<b>EARTH WORK :- Sub Head Total</b>						
<b>2</b>	<b>4</b>	<b><u>CONCRETE WORKS</u></b>						
2.1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
2.1.1	4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	CUM	116				
2.1.2	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	CUM	35				
2.2	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor,etc., up to floor five level, excluding the cost of centering, shuttering and finishing :						
2.2.1	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	CUM	31				

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2.3	4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand),cost of required centering complete.						
2.3.1	4.5.2	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	CUM	8				
2.4	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification	per 50 kg cement	2734				
2.5	4.19	<div> Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, 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 the Engineer - in - charge. </div> <div> Note : 1) Excess/less cement used than specified in this item is payable/ recoverable separately.  2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.  3) The above item shall be used judiciously where specified quality of Fly Ash is available for mixing in concrete. Also, the guidelines issued by CDO, CPWD, vide circular no. CDO/SE(RR)/Fly Ash (Main)/102 dated 9th April 2009 shall be followed in such cases. </div>						
2.5.1	4.19.1	All works upto plinth level :						
2.5.2	4.19.1.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum ).	CUM	419				

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		<b>CONC. WORK :- Sub Head Total</b>						
<b>3</b>	<b>5</b>	<b><u>REINFORCED CEMENT CONCRETE WORK</u></b>						
<b>3.1</b>	<b>5.1</b>	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :						
<b>3.1.1</b>	<b>5.1.2</b>	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	CUM	150				
<b>3.1.2</b>	<b>5.2</b>	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :						
<b>3.1.3</b>	<b>5.2.2</b>	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	CUM	43				
<b>3.2</b>	<b>5.3</b>	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	CUM	15				
<b>3.3</b>	<b>5.8</b>	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	CUM	17				
<b>3.4</b>	<b>5.9</b>	Centering and shuttering including strutting, propping etc. and removal of form for :						
<b>3.4.1</b>	<b>5.9.1</b>	Foundations, footings, bases of columns, etc. for mass concrete.	SQM	671				
<b>3.4.2</b>	<b>5.9.2</b>	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	SQM	3109				

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3.4.3	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	SQM	6879				
3.4.4	5.9.4	Shelves (Cast in situ)	SQM	33				
3.4.5	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	SQM	5944				
3.4.6	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	SQM	3471				
3.4.7	5.9.7	Stairs, (excluding landings) except spiral-staircases.	SQM	342				
3.4.8	5.9.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	SQM	24				
3.4.9	5.9.16	Edges of slabs and breaks in floors and walls						
3.4.9.1	5.9.16.1	Under 20 cm wide	SQM	28				
3.4.11	5.9.16.2	Above 20 cm wide	SQM					
3.4.10	5.9.19	Weather shade, Chajjas, corbels etc., including edges	SQM	91				
3.5	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)						
3.5.1	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	SQM	6496				
3.6	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						

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3.6.1	5.22.6	Thermo-Mechanically Treated bars.	KG	446169				
3.7	5.22A	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.						
3.7.1	5.22A.6	Thermo-Mechanically Treated bars.	KG	357066				
3.8	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping 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.						
		(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).						
3.8.1	5.33.1	All works upto plinth level.	CUM	771				
3.8.2	5.33.2	All works above plinth level upto floor V level.	CUM	575				
3.9	5.34	Extra for providing richer mixes at all floor levels.						
		Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.						
3.9.1	5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	CUM	1543				

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3.10	5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of 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 the Engineer - in - charge.						
		NOTE- (1) Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.						
3.10.1	5.40.1	All works upto plinth level.	CUM	1800				
3.10.2	5.40.2	All works above plinth level upto floor V level.	CUM	1341				
3.11	NDSR	Rebarring of reinforcement by drilling 150mm deep hole in existing RCC Column/ wall , cleaning the same & providing suitable hilti or equivalent grout for developing desired bond strength including cost of steel bar etc. complete as per direction of engineer in charge.						
3.11.1	i	14 mm dia hole for 10mm dia bar	EACH	156				
3.11.2	ii	16 mm dia hole for 12mm dia bar	EACH	156				



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3.11.3	iii	20 mm dia hole for 16mm dia bar	EACH	60				
		<b>R.C.C. WORK :- Sub Head Total</b>						
<b>4</b>	<b>6</b>	<b><u>BRICK WORK</u></b>						
4.1	6.1	Brick work with common burnt clay F.P.S. (Non-Modular) bricks of class designation 7.5 in foundation and plinth in:						
4.1.1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	CUM	130				
4.2	Derived from DSR	Brick work with F.P.S. (Non-Modular) bricks in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand) as per direction of Engineer -in -Charge. (Note- The bricks recovered from dismantlement of Boundary wall shall be supplied to contractor free of cost.)	CUM	50				
4.3	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :						
4.3.1	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	CUM	212				
4.4	6.34	Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :						
4.4.1	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	CUM	1005				
4.5	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in.						
4.5.1	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	220				
4.6	6.45	Half brick masonry with non modular fly ash lime Gypsum bricks (FALG bricks) of class designation 10, conforming to IS : 12894, in super structure above plinth and upto floor V level.						

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4.6.1	6.45.2	cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	1351				
4.7	6.15	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry .	SQM	1571				
		<b>BRICK WORK :- Sub Head Total</b>						
5	7	<b><u>STONE WORK</u></b>						
5.1	7.23	Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :						
5.1.1	7.23.1	Red/white sand stone - exposed face fine dressed with rough backing.						
5.1.1.1	7.23.1.5	30 mm thick	SQM	238				
5.2	7.25	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases in stone and holes in walls wherever required.	KG	952				
5.3	7.27	Providing and fixing copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases.	EACH	1904				
5.4	7.33	Providing and fixing stone jali 40mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.						

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5.4.1	7.33.1	Red sand stone/ White sand stone	SQM	12				
5.5	7.36	Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.	SQM	874				
5.6	7.39	Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.	SQM	1786				
		<b>STONE WORK :- Sub Head Total</b>						
6	8	<b><u>MARBLE &amp; GRANITE WORK</u></b>						
6.1	8.1	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).						
6.1.1	8.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.						
6.1.1.1	8.1.1.1	Area of slab upto 0.50 sqm	SQM	1				

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6.2	Derived from DSR item 8.1	Granite work gang saw cut (mirror polished and machine cut and pre polished) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of minimum 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the the granite shade (To be secured to the backing by means of cramps, which shall be paid for separately).						
6.2.1		Area of slab over 0.50 sqm	SQM	732				
6.3	8.2	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.						
6.3.1	8.2.2	<b>Granite of any colour and shade</b>						
6.3.1.1	8.2.2.1	Area of slab upto 0.50 sqm	SQM	23				
6.3.1.2	8.2.2.2	Area of slab over 0.50 sqm	SQM	32				
6.4	8.3	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities ect. Including machine polishing to edge to give high gloss finish ect. Complete as per design approved by Engineer - in Charge.						
6.4.1	8.3.2	Granite work	METRE	289				
6.5	8.4	Extra for fixing marble / granite stone over and above corresponding basic item, in facia and drops of width upto 150mm with epoxy resin based adhesive including cleaning etc. complete.	METRE	289				

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6.6	8.5	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/ Granite/ Stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edge etc. complete.	EACH	14				
6.7	8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.						
6.7.1	8.10.2	Granite Stone of approved shade	SQM	6				
6.8	Derived from DSR item 11.23	Providing & laying Granite stone flooring with 18mm thick granite stone of approved colour and shade over 20mm(average) thick base of cement mortar 1:4 (1 cement :4 coarse sand) laid with joints treated with colour pigment at all heights as per direction of Engineer-in-charge.	SQM	993				
6.9	8.12 (Spl DSR)	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge						
		(a) Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	SQM	125				
		<b>MARBLE &amp; GRANITE WORK :- Sub Head Total</b>						
7	9	<b>WOOD WORK</b>						

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7.1	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).						
7.1.1	9.1.1	Second class teak wood	CUM	1				
7.1.2	9.1.2	Sal wood	CUM	2				
7.2	9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.						
7.2.1	9.5.1	Second class teak wood						
7.2.1.1	9.5.1.1	35 mm thick shutters	SQM	31				
7.3	9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :						
7.3.1	9.7.3	Ply wood 5 ply, 9 mm thick						
7.3.1.1	9.7.3.1	Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type	SQM	22				
7.3.2	9.7.7	Float glass panes						
7.3.2.1	9.7.7.2	5.5 mm thick glass panes	SQM	10				
7.4	9.16	Providing and fixing 25 mm thick shutters for cup board etc. :						
7.4.1	9.16.1	Panelled or panelled and glazed shutters						

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7.4.1.1	9.16.1.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	SQM	55				
7.5	9.21	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :						
7.5.1	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	SQM	40				
7.5.2	9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	SQM	65				
7.6	9.22	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)						
7.6.1	9.22.1	On one side only.	SQM	210				
7.7	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	SQM	105				
7.8	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :						
7.8.1	9.24.1	Rectangular or square	SQM	2				
7.9	9.33	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete.						
7.9.1	9.33.1	25 mm long	EACH	300				
7.9.2	9.33.2	32 mm long	EACH	200				

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7.9.3	9.33.3	40 mm long	EACH	150				
7.9.4	9.33.4	50 mm long	EACH	100				
7.10	9.34	Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.						
7.10.1	9.34.3	20 mm thick	SQM	125				
7.11	9.36	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.						
7.11.1	9.36.1	Kiln seasoned and chemically treated hollock wood	CUM	2				
7.12	9.48	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.						
7.12.1	9.48.1	Fixed to steel windows by welding	KG	270				
7.13	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	EACH	216				
7.14	9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.						
7.14.1	9.68.2	250 mm weighing not less than 150 gms	EACH	20				



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7.15	NDSR	Providing and fixing oxidised M.S. Handles to steel window including fixing arrangement etc complete.	EACH	20				
7.16	9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	EACH	15				
7.17	NDSR	Providing & fixing brass cylindrical lock of approved make & design of 5 liner including cutting & fixing et. Complete as per directions of Engineer-in-charge	EACH	10				
7.18	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.						
7.18.1	9.79.2	50 mm	EACH	16				
7.19	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	EACH	212				
7.20	9.97	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade with necessary screws etc. complete :						
7.20.1	9.97.1	300x10 mm	EACH	392				
7.20.2	9.97.5	100x10 mm	EACH	106				
7.21	NDSR	Providing and fixing Stainless Steel tower bolts (barrel type) with necessary screws etc. complete :						
7.21.1	NDSR	300x10 mm	EACH	20				
7.21.2	NDSR	100x10 mm	EACH	20				

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7.22	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						
7.22.1	9.100.1	125 mm	EACH	392				
7.22.2	9.100.2	100mm	EACH	106				
7.23	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.						
7.23.1	9.101.1	Single rubber stopper	EACH	212				
7.24	9.102	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	EACH	106				
7.25	9.103	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	EACH	157				

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7.26	9.105	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.						
7.26.1	9.105.2	75mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum board conforming to IS: 2095: part I	SQM	120				
7.27	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.						
7.27.1	9.114.2	Double strip (horizontal type)	EACH	64				
7.28		<b>Window Blinds</b>						
7.28.1	NDSR	Providing and Instalation Window Blinds of approved make, shape, design and shade with C.P. brass screws and wooden plugs, etc., wherever necessary complete :	SQM	1055				
7.29	NDSR	<b>Fire Door</b>						

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		<b>50MM THICK (minimum) WOODEN FIRE RATED DOOR OF 120 MINUTES FIRE RATING:</b>						
7.29.1	NDSR	<b>DOOR FRAME:</b> Supply and fixing of 2nd class teakwood (Ivory Coast) <i>door frame</i> of section Max. 150mm x 75mm with heat activated intumescent fire seal strip of section 10mm x 4mm 2 No. of approved make and one coat anti-termite fire retardant primer of approved make.	METRE	65				
7.29.2	NDSR	<b>DOOR SHUTTER:</b> Supply and fixing asbestos free composite fire/smoke check wooden shutter (minimum thickness 50mm but not more than 55mm) of 120 min. fire rating confirming to BS : 476 part 22 & IS : 3614 Part II as per the prototype tested and certified by CBRI Roorkee, suitable for mounting on the door frame, comprising of two non combustible boards 12mm mm thick sandwiching to 20 to 25 mm fire resistant insulation filler veneered with 3mm thick commercial ply on both faces and pasting of minimum 1 mm thick laminate over wooden fire approved brand a 100% without Asbestos, Bructile and merschaum, having density not more than 1150 kg/m3 and thermal conductivity 0.14 W/m K with heat activated intumescent fire seal strip of size 20mm x 4mm of approved mounted in the grooves of teakwood lipping on all sides except bottom. The intumescent sealant is used to fill the gaps between board and internal wooden lipping. (The sample(s) of the fire door shall be collected out of the delivered doors, as per specifications, and shall get tested the door from CBRI Roorkee or any other laboratory approved by Engineer-in-Charge. The work shall be carried out as per specification and as per direction of Engineer-in-Charge.	SQM	36				
7.30		<b>Providing &amp; fixing following Hardware's for Fire Door of approved makes complete in all respect as directed by Engineer-in-charge</b>						
7.31	NDSR	Supply and fixing of 304 grade stainless steel ball bearing hinges of size 100x 75 x 3mm of approved make as per direction of Engineer in Charge.	NOS	56				
7.32	NDSR	Providing and fixing of fire rated door closer tested in accordance with BS:476 Part 22 for fire rating) and BS EN 1154 with 10 year warranty as per direction of Engineer in Charge.	NOS	14				

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7.33	NDSR	<b>PANIC EXIT DEVICES</b> : Providing and fixing of UL listed fire rated single/double leaf panic exit devices tested in accordance with BS EN 1125: 1997 & BS EN 179: 1997, EN 1670 (Corrosion Resistant), & BS 476 Part 22 (for fire rating) with 5 years warranty as per direction of Engineer in Charge.						
7.33.1		For Double Leaf door	NOS	4				
7.33.2		For Single Leaf door	NOS	3				
7.34	NDSR	<b>MORTICE DEAD LOCK:-</b> Providing and fixing 2 hrs, fire rated mortice lock with lever handle tested in accordance with BS:476 Part 22.with 5 year warranty.	NOS	7				
7.34.1	NDSR	<b>FIRE RATED GLASS FOR FIRE RATED DOORS VISION PANEL:</b> Supply and fixing of minimum 11mm thick, Contraflame Door Lite Clear, 120 minutes rated (EW 120) Non Wired, Toughened Interlayered Glass toughened fire rated glass having light transmission 87% of approved make which can also withstand thermal shock upto 800 degree centigrade shall be used as a glazing (Vision Panel Top fixed glazing) and is to be fixed in between the glass beading by using ceramic fiber and fire rated acrylic sealant in accordance with BS : 476 Part 22, EN 1363 1364 for stability and integrity of size 300mm x 500mm (Clear size) and the manufacture should have tested the glass from CBRI Roorkee or any other laboratory approved by Engineer as per direction of Engineer-in-Charge (visible area of glass to be measured for payment)	NOS	14				
7.35	NDSR	Supply and fixing of stainless steel 304 Grade D - Type pull handle of size 300mm long 22mm dia of approved make as per direction of Engineer-in-Charge.	NOS	28				
7.36	NDSR	Supply & application of fire retardant paint of approved brand in three or more coats to provide Class I surface spread of flame as per IS 12777 and BS 476 Part 7 tested from CBRI Roorkee or any other Laboratory approved by Engineer-in-Charge.	SQM	86				

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7.37	NDSR	Providing and fixing door Co-ordinator for coordination of double leaf doors as manufactures specifications.	EACH	5				
7.38	NDSR	Providing of Openable locks / trims for Panic Bars (Becker Fire Solutions) to operate panic bar from outside with necessary screws as required.The lock and handle should be an amalgamated single motion piece from the same manufacturer as that of Panic Bar	EACH	7				
		<b>WOOD WORK :- Sub Head Total</b>						
<b>8</b>	<b>10</b>	<b><u>STEEL WORK</u></b>						
8.1	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	KG	400				
8.2	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	KG	600				
8.3	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.						
8.3.1	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	SQM	22				
8.4	10.7	Providing and fixing ball bearing for rolling shutters.	EACH	6				

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8.5	10.9	Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).	SQM	11				
8.6	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).						
8.6.1	10.11.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	KG	270				
8.7	10.12	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.	METRE	54				
8.8	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.						
8.8.1	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	KG	100				
8.9	10.16	Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.						
8.9.1	10.16.1	Hot finished welded type tubes	KG	31689				
8.10	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required						

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8.10.1	10.25.1	In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.	KG	250				
8.10.2	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	KG	12556				
8.11	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.						
8.11.1	10.26.1	M.S. tube	KG	500				
8.12	10.27	Providing and fixing carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.						
8.12.1	10.27.1	10 x 60 mm	EACH	100				
8.12.2	10.27.2	10 x 80 mm	EACH	150				
8.12.3	10.27.3	10 x 120 mm	EACH	200				
8.12.4	10.27.4	10 x 140 mm	EACH	100				



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8.13	10.28	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	KG	5469				
8.14	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :						
8.14.1	10.30.2	5.5 mm thick glass panes	SQM	14				
8.15	Derived from DSR item 10.25.2	Re- fixing the old dismantled steel works , frames, guard bar, railing etc at top of the boundary wall by grouting in brick / concrete including cutting and making good including cleaning and repairing /welding the sections etc complete as per direction of Engineer in -Charge.	KG	6471				
		<b>STEEL WORK :- Sub Head Total</b>						
9		<b><u>FLOORING WORK</u></b>						
9.1	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, .hardening compound mixed @ 2 litre per 50kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	SQM	89				

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9.2	11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.						
9.2.1	11.6.1	18 mm thick	SQM	15				
9.3	11.19	Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :						
9.3.1	11.19.1	Light shade using white cement	SQM	50				
9.4	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).						
9.4.1	11.20.4	Medium shade using 50% white cement and 50% Grey Cement	SQM	355				
9.5	11.23	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with :						
9.5.1	11.23.5	Udaipur green marble	SQM	388				
9.6	11.24	Extra for pre finished nosing to treads of steps of marble stone.	METRE	359				
9.7	11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre .	SQM	183				

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9.8	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :						
9.8.1	11.26.1	25 mm thick.	SQM	494				
9.9	11.27	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	SQM	33				
9.10	11.33	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :						
9.10.1	11.33.1	Second class teak wood	SQM	318				
9.11	11.36	Providing and fixing 1st quality <i>ceramic glazed wall tiles</i> conforming to IS : 15622 (thickness to be specified by the manufacture ) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	SQM	519				
9.12	11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	SQM	70				

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9.13	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	SQM	180				
9.14	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.						
9.14.1	11.41.2	Size of Tile 600x600 mm	SQM	1703				
9.14.2	11.41.4	Size of Tile 1000x1000 mm	SQM	341				
9.15	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.						
9.15.1	11.46.2	Size of Tile 600x600 mm	SQM	116				
9.15.2	11.46.4	Size of Tile 1000x1000 mm	SQM	23				
		Note:- The vitrified tiles for the above items shall be from the double/multi charged range of tiles.						
		<b>FLOORING WORK :- Sub Head Total</b>						

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					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
10	12	<b>ROOFING</b>						
10.1	12.21	Providing and laying gola 75x75mm in cement concrete M15 grade including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :						
10.1.1	12.21.1	In 75x75 mm deep chase.	METRE	255				
10.2	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400micron, finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	EACH	32				
		Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone /cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel Sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38mm made from 0.33 mm thick (minimum) sheet, spaced 1200mm centre to centre, and cross "T" of size 24x28mm made out of 0.33mm (Minimum) sheet, 1200mm long spaced between main'T' at 600mm centre to centre to form a grid of 1200x600mm and secondary cross 'T' of length 600mm and size 24 x28mm made of 0.33mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600mm panel to from grid of size 600x600mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at						

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10.3	12.53	450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick densified edges calcium silicate ceiling tiles of approved texture (Spintone / Cosmos/hexa) in the grid including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6mm fixed to ceiling with 12.5 mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200mm centre to centre along main 'T', bottom exposed with 24mm of all T-sections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non - combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity < 0.043 w/m 0 KC.	SQM	1355				
10.4	NDSR	Providing and fixing of false ceilings of ARMSTRONG or equivalent make, at all heights of 600mm x 600mm x 15mm or 1200mm x 600mm x 15mm Mineral Fibre ceiling tiles of Dune Plus RH-95 with Tegular Edge laid on Armstrong prelude XL exposed grid systems with 24mm wide T - section flanges colour White. The framework comprise of main runner spaced at 1200mm centers securely fixed to the structural soffit by approved hangers at 1200mm maximum centers. Hangers (GI wire of 4.0mm dia) to be fixed by approved roof plug, level adjusters and screws etc. The last hanger at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross	Sqm	1181				

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		tees (with double stitching) to be interlocked between main runners at 600mm centers to form 1200 x 600 x modules. Cut cross tees longer than 600mm to be supported independently. 600mm x 600mm modules to be formed by fitting 600mm long flush fitting corss tees centrally between the 1200m cross tees. Perimeter trim to be Armstrong wall angle secured to walls at 450mm maximum centners. (The quoted rate shall be inclusive for making opening for light fixtures, diffusers & AC grills.)						
10.5	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws						

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		@ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :						
10.5.1	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095-Part I	SQM	496				
10.6	NDSR	Providing fixing thermal insulation of ceiling (under deck insulation) with 100 mm thick Resin Bonded Fibre glass wool insulation board conforming to IS: 8183, density 48 kg / m <sup>3</sup> , , factory laminated with polypropylene white facing, fixed against the true ceiling with Hilti make IDP- 6/8 polyamide fasteners (110 mm in length) or equivalent at 1200 mm x 600 mm centres, aAll the edges of the boards placed side by side to be sealed with 50 mm wide self-adhesive white HDP tape all complete as per directions of the Engineer-in-charge	SQM	900				
10.7	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	EACH	15				
10.8	12.55	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	SQM	946				



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10.9	NDSR	Supplying and fixing 16 mm th. polycarbonate sheet of approved make and shade on plain or curved profile roof sheeting with anodised aluminium beading over structural steel member (structural steel members shall be paid under relevant tender item ) fixed with GI bolts or EPDM coated self tapping screws with EPDM sealing washer with filling the gaps with silicon sealant. Item rates shall include cost of plastic caps of approved colour of U V resistance, sealant wherever required, overlaps, wastage etc complete as per drawing and direction of Engineer in -Charge. The work shall be carried out for all heights with scaffolding, labour tools etc. without any extra cost..	SQM	324				
		<b>ROOFING WORK :- Sub Head Total</b>						
11	13	<b><u>FINISHING WORK</u></b>						
11.1	13.1	12 mm cement plaster of mix :						
11.1.1	13.1.1	1:4 (1 cement: 4 fine sand)	SQM	125				
11.1.2	13.1.2	1:6 (1 cement: 6 fine sand)	SQM	12125				
11.2	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix:						
11.2.1	13.2.2	1:6(1 Cement : 6 Fine Sand).	SQM	2389				
11.3	5.30	Add or deduct for plaster drip course/ groove in or moulding to R.C.C. projections.plastered surface	METRE	545				
11.4	13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	SQM	967				

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11.5	13.16	6 mm cement plaster of mix :						
11.5.1	13.16.1	1:3 (1 cement: 3 fine sand)	SQM	6906				
11.6	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50KG Cement Used in Mix	600				
11.7	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	SQM	15019				
11.8	13.37	White washing with lime to give an even shade:						
11.8.1	13.37.1	New work (three or more coats)	SQM	4041				
11.9	13.82	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour..						
11.9.1	13.82.2	Two coats	SQM	15264				
11.10	13.84	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.						
11.10.1	13.84.2	Two coats	SQM	303				
11.11	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.						

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11.11.1	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	SQM	15264				
11.12	13.45	Finishing walls with textured exterior paint of required shade :						
11.12.1	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	SQM	363				
11.13	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :						
11.13.1	13.47.1	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	SQM	2679				
11.14	13.48	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :						
11.14.1	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture	SQM	150				
11.15	13.50	Applying priming coat :						
11.15.1	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	SQM	150				
11.16	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.						
11.16.1	13.52.1	On steel work	SQM	6579				

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11.17	13.83	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.						
11.17.1	13.83.2	Two coats	SQM	3053				
11.18	14.54	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :						
11.18.1	14.54.1	One or more coats on old work	SQM	203				
		<b>FINISHING WORK :- Sub Head Total</b>						
12	15	<b><u>DISMANTLING AND DEMOLISHING</u></b>						
12.1	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	CUM	22				
12.2	15.7	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metre lead as per direction of engineer- in- charge.						
12.2.1	15.7.4	In cement mortar	CUM	155				
12.3	15.8	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured) :						

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12.3.1	15.8.3	From brick work in cement mortar	1000 nos	39				
12.4	15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	KG	6471				
12.5	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	CUM	130				
12.6	NDSR	Credit for taking over dismantled MS grill from the site to contractor's godown or dump yard, as applicable, as per direction of Engineer in-Charge.	KG	6471				
		<b>DISMANTLING AND DEMOLISHING WORK :- Sub Head Total</b>						
<b>13.0</b>	<b>16</b>	<b><u>ROAD WORK</u></b>						
<b>13.1</b>	<b>16.1</b>	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	SQM	1893				
<b>13.2.1</b>	<b>16.3</b>	Supplying and stacking at site.						
<b>13.2.2</b>	<b>16.3.1</b>	90 mm to 45 mm size stone aggregate.	CUM	178				
<b>13.2.3</b>	<b>16.3.2</b>	63 mm to 45 mm size stone aggregate.	CUM	143				

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13.2.4	16.3.3	53 mm to 22.4 mm size stone aggregate.	CUM	107				
13.2.5	16.3.7	Stone screening 11.2 mm nominal size Type B .	CUM	20				
13.2.6	16.3.10	Moorum.	CUM	5				
13.3	16.4	Laying spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness, hand picking , rolling with 3 wheeled road / vibratory roller 8-10 tonne in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density .	CUM	453				
13.4	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately).(Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	CUM	858				
13.5	16.44	Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.	LITRE	149				
13.6	16.45	Providing and fixing in position pre-moulded joint filler in expansion joints.	Per cm depth per cm width per m	20766				

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13.7	16.46	Providing and laying in position bitumen hot sealing compound for expansion joints etc.						
13.7.1	16.46.1	Using grade 'A' sealing compound.	Per cm depth per cm width per m length	20766				
		PAINTING ROAD / RUNWAY MARKING						
13.8	16.47	Painting runway/taxi track/apron marking with adequate no. of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge i/c cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete.						
13.8.1	16.47.1	New work (Two or more coats)	SQM	220				
13.9	16.63	Providing, laying and making kerb channel 30cm wide and 50mm thick with cement concrete 1:3:6 (1 cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth etc. complete and as per direction of Engineer-in-charge.	SQM	50				
13.10	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	SQM	231				

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13.11	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	CUM	24				
13.12	16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	SQM	30				
13.12	NDSR	Providing placing & fixing Precast Concrete Grass Grid Pavers of 70 mm Thickness and appropriate size, laid over compacted earth and over 75 mm thick layer (average) of Jamuna sand, manufactured by using M-30 grade of concrete by using vibro compaction process using accurately designed moulds. The Grass Grid pavers shall be suitably reinforced etc. complete in all respects as per direction of the Engineer-in-charge.	SQM	330				
		<b>ROAD WORK :- Sub Head Total</b>						
14	21	<b><u>ALUMINIUM WORK</u></b>						



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14.1	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. Glazing and paneling to be paid for separately) :						
14.1.1	21.1.1	For fixed portion.						
14.1.1.1	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	KG	2659				
14.1.2	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).						
14.1.2.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	KG	3027				
14.2	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.						
14.2.1	21.2.2	Pre-laminated particle board with decorative lamination on both sides	SQM	352				

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14.3	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):						
14.3.1	21.3.1	With float glass panes of 4.0 mm thickness	SQM	199				
14.3.2	21.3.2	With float glass panes of 5.50 mm thickness	SQM	231				
14.3.3	NDSR	With coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, of approved make having properties as visible Light transmittance (VLT) of 35 % (minimum), shading coefficient of 0.45 (maximum) and U value of 5.0 to 6.0 W/m2 degree K etc. as per specifications, drawings and direction of Engineer-in-Charge complete.	SQM	125				
14.4	NDSR	Providing and fixing Aluminium windows. including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. with Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 30 % (minimum), Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient of 0.25 (maximum) and U value of 2.0 W/m2 degree K (Maximum) etc. as per specifications, drawings and direction of Engineer-in-Charge complete. (Aluminium work shall be paid seperately)	SQM	17				
14.5	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors , embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.						

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14.5.1	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness.	EACH	160				
14.6	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.						
14.6.1	21.8.1	Upto 5mm depth and 5 mm width	METRE	1147				
14.7	NDSR	Providing and fixing 12mm thk. Toughened float glass partition of approved make and shade Including cutting and fixing in position, making openings of desired shape as per drawing with 3/4" beveling all around, fixed with the help of SS patch fittings, with top and bottom 'C' channels, fixed firmly to the slab/ MS Structure ,as directed by Engineer in Charge. The rate is inclusive of providing and fixing of "C" channel, SS patch fittings etc complete)	SQM	171				
14.8	NDSR	Providing and fixing 12mm thk. Toughened glass door, cut and fixed in openings of desired shape as per drawing with 3/4" beveling all around and acid wash etching, fixed with the help of SS patch fittings as per drawing and as directed by Engineer in Charge .	SQM	22				
14.9	NDSR	Providing and fixing 1 pair Stainless Steel door handles ( 'D' shape of 18" length & made 1" dia SS pipe of heavy quality with proper fixing arrangement on each toughened glass door as directed by Engineer in Charge	EACH	5				
14.10	NDSR	Providing and fixing Pin cylinder lock in Stainless Steel finish with proper fixing arrangement on toughened glass door as directed by Engineer in Charge	EACH	5				
14.11	21.10	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-Charge complete.	SQM	72				

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					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
14.12	Derived from DSR Item 21.14	Providing and fixing powder coated aluminium (minimum thickness of Powder coating 50 Micron) sub frame work of approved shade for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).	KG	1063				
14.13	NDSR	Providing and fixing approved make Grab Rail / Hand Rail System consisting of continuous aluminium retainer, adjustable rail mounting base (HRAM) adaptable to uneven wall surface, impact observing strip (BABS), end cap, corner joint, high impact vinyl acrylics on cover desired shade to withstand impact and providing a cushioned surface with its integrated rubberized absorber complete as per manufacturers specification and as directed by Engineer in Charge	METRE	35				
		<b>ALUMINIUM WORK :- Sub Head Total</b>						
15	22	<b><u>WATER PROOFING</u></b>						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
15.1	NDSR	Providing water proofing treatment by chemical injection grout process on horizontal surfaces like rafts & other similar locations using 25mm dia . G.I nozzles , minimum 1/4th thickness of raft 40mm(long) whichever is more, inside the raft fixed @ 1.5m c/c in both the directions. The injection grout which consist of injection cement slurries of different viscosities & expansive plasticizing agent (a non shrinkage compensating grout ) Flowcable 50 or equivalent is to be pumped in to the nozzles under pressure with a pump . The nozzles to be sealed off after the injection operation with suitable admixture. Providing & applying two coats of two component based elastomeric, cementitious coating Master Seal 551 or equivalent taking care that the subsequent coat is applied when the previous coat is touch dry, 20mm cement plaster of mix 1:4 (1 cement :4 coarse sand) mixed with liquid waterproofing admixture MasterPal 707 or equivalent & finally embedding with 12mm size stone aggregate @ 8cudm per sqm complete as per manufacturer's specifications & as directed. (Work to be got executed through a specialized agency and covered by a 10 years guarantee by the main contractor.)	SQM	2211				
15.2	NDSR	Providing water proofing treatment by chemical injection grout process on vertical surfaces like walls & other similar locations using 25mm dia . M.S nozzles , minimum 1/4th thickness of wall or 40mm(long) whichever is more inside the walls fixed @ 1.5m c/c in both the directions and @ 0.75 m c/c along construction joints. The injection grout which consist of injection cement slurries of different viscosities & expansive plasticizing agent (a non shrinkage compensating grout )Flowcable 50 or equivalent is to be pumped in to the nozzles under pressure with a pump . The nozzles to be sealed off after the injection operation with suitable admixture. Providing & applying two coats of two component based elastomeric, cementitious coating Master Seal 551 or equivalent taking care that the subsequent coat is applied when the previous coat is touch dry , 20mm cement plaster of mix 1:4 (1 cement :4 coarse sand) mixed with liquid waterproofing admixture MasterPal 707 or equivalent complete as per manufacturer's specifications & as directed.(Work to be got executed through a specialized agency and covered by a 10 years guarantee by the main contractor.)	Sqm	1629				

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					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
15.3	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/Sqm. of cement admixed with water proofing compound conforming to IS. 2645 and a+C139 approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the						
		adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ Sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :						
15.3.1	22.7.1	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	SQM	946				

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15.4	NDSR	<p>Providing &amp; laying Waterproofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound <b>Master Seal 511</b> or equivalent consisting of applying:</p> <p>a) First layer of slurry of cement @ 0.488 kg/sq m mixed with water proofing cement compound @ 0.253 kg / sq m. This layer will be allowed to air cure for 4 hours.</p> <p>b) Second layer of slurry of cement @ 0.242 kg / sq m. mixed with water proofing cement compound @ 0.126 kg / sq m. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.</p> <p>The rates include preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. The work shall be carried out by a specialist agency generally in accordance with above specifications and shall carry a guarantee against leakage, seepage etc. for ten years.</p>	SQM	134				
15.5	NDSR	Providing laying and compacting brickbats filling in sunken portion of WC and kitchen and all heights as per direction of Engineer -in Charge.	CUM	54				
15.6	Derived from item No. 22.14	Grading roof for water proofing treatment and at other locations, as directed by the Engineer-in-charge, with						
15.7	22.14	Grading roof for water proofing treatment with						
15.7.1	22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10/20 mm nominal size)	CUM	47				
		<b>WATER PROOFING WORK :- Sub Head Total</b>						
16	23	<b><u>HORTICULTURE &amp; LANDSCAPING</u></b>						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
16.1	23.2	Supplying and stacking of good earth at site including royalty and carriage etc complete (earth measured in stacks will be reduced by 20% for payment).	CUM	120				
16.2	23.4	Supplying and stacking at site dump manure from approved source, including carriage etc. complete (manure measured in stacks will be reduced by 8% for payment)						
16.2.1	23.4.1	Screened through sieve of I.S. designation 20mm	CUM	24				
16.3	23.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Engineer -in-charge..	CUM	189				
16.4	23.10	Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately).						
16.4.1	23.10.1	In rows 5 cm apart in both directions	100 sqm	1				
16.5	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :						
16.5.1	23.14.1	Holes 1.2 m dia and 1.2 m deep	EACH	50				
16.5.2	23.14.2	Holes 90 cm dia, and 90 cm deep	EACH	30				
16.5.3	23.14.3	Holes 60 cm dia, and 60 cm deep	EACH	36				



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16.5.4	23.14.4	Holes 45 cm dia, and 45 cm deep	EACH	30				
16.6	NDSR	Collection, stacking, preservation, stockpiling for top soil to be used for landscaping.	CUM	50				
16.7	NDSR	Supply & Planting best quality trees inclusive of cultivation of trees bead to required depth. All trees / plants to be approved before planting including watering & maintenance for 180 days.						
16.7.1	NDSR	Alstonia Scholaris 'Milky pine' (1500-1800mm high)	EACH	30				
16.7.2	NDSR	Plumeria Alba 'Champa' (3000mm high sapling, with 5 to 6 branches, 3Mtr. centre to centre.)	EACH	20				
16.7.3	NDSR	Chrysalidocarpus lutescens 'Yellow butterfly palm'	EACH	26				
16.7.4	NDSR	Nerium Oleander " Oleander'	EACH	30				
16.7.5	NDSR	Rhapis Excelsa ' Broadleaf Lady Palm Or Bamboo Palm'	EACH	20				
16.7.6	NDSR	Murraya Exotica 'Orange Jasmine' (1000mm high)	EACH	20				
		<b>HORTICULTURE &amp; LANDSCAPING WORK :- Sub Head Total</b>						
17	26	<u>Structural Glazing and Aluminium Composite Panel</u>						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
17.1	Derived from 26.1 (Spl DSR)	<p><b>NOTE:-</b> The Contractor shall be responsible for Structural analysis, design and preparation of shop drawings etc for complete structural glazing system, including ACP panelling, for linear as well as curvilinear portions of the building for all heights and all levels, including bands, cantilevers etc all complete as per the loading parameters detailed in the items hereunder. Non mention of loading standards shall not be a reason not to design, seeking approval, preparation of shop drawings of the complete structural glazing system including ACP panelling.</p> <p>Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).</p>	KG	13028				
		<p>Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels including:</p> <p>(a) Structural analysis, design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must pass the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation &amp; drainage and protection against fire hazard including:</p>						

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					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
17.2	26.2 (Spl DSR)	<p>(b) Fabricating and supplying serrated Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and proper fixing of structural glazing system with the RCC/ masonry/structural steel framework of building structure, using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.</p> <p>(c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment , including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacturer, as per the approved sealant design, within and all around the perimeter for holding glass.</p> <p>(d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.</p> <p>(e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete.</p> <p>This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&amp;P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design checked and all the shop drawings vetted by the Principals of the structural glazing system.</p>	SQM	1303				

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		<p>The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. sqm 2282.65</p> <p>"Note:- 1 The cost of providing extruded aluminium frames, shadow boxes, fire stop (barrier)- cum-smoke seals, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub-head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves ) on the external face shall be measured in sqm. up to two decimal places.</p>						
17.3	26.3 (Spl DSR)	<p>Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer high performance heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.</p>	SQM	20				

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					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
	DSR)	(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.17.2 above) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 30 % (minimum), Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient of 0.25 (maximum) and U value of 2.0 W/m2 degree K (Maximum) etc.						
17.4	26.4 (Spl DSR)	Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. Providing and Fixing 4mm thick Composite Aluminium Panel Cladding of Exterior grade to the profile indicated, PVDF finish with proprietary fixing including necessary aluminium framework fixed with canopy structure (structure to be paid separately). All grooves to be 5-8 mm wide, neatly finished and sealed with silicon and backer rod. (Canopy included) as per client's approved shade and colour. Shop Drawing to be submitted to architect for approval	SQM	20				

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17.5	26.5 (Spl DSR)	Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semirigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick having density 48 Kg/cum, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm / sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.	SQM	240				
17.6	Derived from 26.6 (Spl DSR)	Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.(Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevant Item*). (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 30 % (minimum), Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient of 0.25 (maximum) and U value of 2.0 W/m2 degree K (Maximum) etc.	SQM	240				

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17.7	Derived from Spl DSR item no 26.7 (Spl DSR)	<p>Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape or curvilinear shape, as required, in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. the Composite Aluminium Panel Cladding shall be fixed with canopy structure or Aluminium structure (structure to be paid separately). All grooves to be 5 8 mm wide, neatly finished and sealed with silicon and backer rod. (Canopy included) as per client's approved shade and colour. Shop Drawing to be submitted to architect for approval</p> <p>The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material &amp; labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled aluminium composite panel cladding, cleaning and protection of the cladding with aluminium composite panel cladding till the handing over of the building for occupation. The Contractor shall provide aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. "However, for the purpose of payment, only the actual area on the external face of the cladding with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places. "</p>	SQM					

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		Structural Glazing and Aluminium Composite Panel Work :- Sub Head Total						