## JABALPUR SMART CITY LIMITED

## **Abstract Estimate of**

## **COMMAND AND CONTROL CENTRE at Jabalpur**

		Amount in Rs.								
S. No.	Sub Estimate	Civil Work	PHE Work @4% and at terrace @2%	Electrical Work @12% and at terrace 2%	Fire Safety Work @1%	Total				
1	Foundation and Structure up to Plinth Level	77,00,225	-	-	-	77,00,225				
2	Ground Floor	89,68,772	3,58,751	10,76,253	89,688	104,93,463				
3	Mazenine Floor	10,90,199	43,608	1,30,824	10,902	12,75,533				
4	First Floor	94,98,393	3,79,936	11,39,807	94,984	111,13,120				
5	Terrace Floor	25,76,927	51,539	51,539	25,769	27,05,774				
6	Boundary Wall and Paver	21,77,475	-	_	-	21,77,475				
		320,11,991	8,33,833	23,98,422	2,21,343	354,65,589				

BILL OF QUANTITY - COMMAND & CONTROL CENTRE, JABALPUR  PILE FOOTING FOR BOUNDARY WALL										
. No	SOR Item No.	Item of Work	VVALL	Quantity	Rate	Unit	Amount	in Rs		
	Excavation									
1	2.8.1, Vol. 2, Pg 16	Earth work in excavation by mechanical means								
1	2.8.1, VOI. 2, Pg 10	•								
		(Hydraulic avator) / manual means in foundation								
		enches or drains (not exceeding 1.5 m in width or 10								
		sqm on plan) including dressing of sides and ramming								
		of bottoms, lift upto 1.5 m, including getting out the								
		excavated soil and disposal of surplus xcavated soil as								
		directed, within a lead of 50 m2.8.1 All kinds of soil								
		For pile cap, (.65 x .65 x .35 m)		26.4						
	Community			26.4	129	CuM		3401.8		
2	Concrete 4.1.2, Vol. 2, Pg 34	Providing and laying in position cement concrete of								
2	4.1.2, VOI. 2, Pg 34									
		specified grade excluding the cost of centering and								
		shuttering All work up to plinth level								
		4.1.2 Cement concrete grade M-15 with 20 mm max.size of stone agg.								
		For pile cap Base		3.5						
		Total		3.5	4154	CuM	1	4606.1		
	150111-									
3	16.9, Vol. 2, Pg 187	Boring, providing and installing bored cast-in-situ								
		reinforced cement concrete pile of specified diameter								
		and length below the pile cap <b>M 20</b> in cement								
		concrete, to carry a safe working load not less than								
		specified, excluding the cost of steel reinforcement but								
		including the cost of boring with, bentonite solution								
		and temporary casing of appropriate length for setting								
		out and removal of same and the length of the pile to								
		be embedded in the pile cap etc. all complete,								
		including removal of excavated earth with all lifts and								
		leads (Length of pile for payment shall be measured								
		upto bottom of pile cap).								
		Length 2.0M								
		(16.9.1) 300 mm dia piles		97.3						
		Total		97.3	1165	Rm	11	3393.3		
1	5.1, Vol. 2, Pg 46	Providing and laying in position specified grade of								
4	3.1, VOI. 2, Fg 40	reinforced cement concrete excluding the cost of								
		•								
		centering, shuttering, finishing and reinforcement - All								
		work up to plinth level :								
		5.1.1 Cement concrete grade M-20 (Nominal Mix) with								
		20 mm maximum								
		Pile Cap		7.20						
		Column		1.28						
		Total		8.47	4728	Cum	4	0065.4		
_	Reinforcement									
5	5.20.6, Vol. 2, Pg 49	Reinforcement for R.C.C. work including straightening,								
		cutting, bending, placing in position and binding								
		including cost of binding wire upto floor two level including all wastage etc. complete.								
		morading an wastage etc. complete.								
		5.20.6 Thermo-Mechanically Treated bars.								
		Reinforcement for R.C.C. work @55kg/cum of column		378.2						
		concrete Reinforcement for R.C.C. work @160kg/cum of		40== 5						
		foundation concrete		1355.9						
		Reinforcement for R.C.C. work @120kg/cum of column		153.3						
		l con avata								
		concrete Total		1887.4	60	Kg	11	3241.		

S. No	SOR Item No.	Item of Work	Quanti	ty Rate	Unit	Amount	in Rs
	Back Filling & Wa	ater Proofing					
6	2.25, Vol. 2, Pg 19	Filling by 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 unto 1.5 m					
		For foundation (volume of earth from excavation item)	26.	37			
		Deduction for foundation concrete (volume from	-11.	20			
		concrete item above)	11.	,,,			
		Total	14.	38 59	CuM		848.
7	4.11. Vol. 2, Pg 36	Extra for providing and mixing water proofing material					
		in cement concrete work @ 1 kg per 50kg of cement.					
			105				
		in concrete upto plinth Measurement as above)	105.	_			
		Volume of Concrete	105.	31			
		Nos of Bag@410 kg or 8.2bags per cum			Per 50		
			867.	52	kg		
				61.00	cement	5	2924.
	Centering & Shu	ttering					
8	20.1.1, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for					
		20.1.1 Foundations, footings, bases of columns, etc.					
		For mass concrete.					
		PILE CAP	43.	51			
		Total	43.	51 138.0	Sam		6017.
9	20.1.6, Vol. 2, Pg 209	Centering & shuttering propping and removal of form			- 1		
J		for Columns, Pillars, Piers, Abutments, Posts, Struts.					
_		Column	15.	32			
		Total	15.	32 282.00	Sqm		4460.
						34	8960.

	BILL OF C	QUANTITY - COMMAND & CONTRO	L CENT	RE, J	ABALP	UR
		BOUNDARY WALL (Above 1	Plinth)			
Struc	tural Part					
S. No	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount in Rs.
	Concrete					
1	5.2.1, Vol. 2, Pg 46	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 two level excluding cost of centering, shuttering, finishing and reinfor cement 5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate				
		Total	20.81	5050	Cum	105065.25
	Reinforcement Reinforcement for R.C.C					
2	5.20.6, Vol. 2, Pg 49	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.  5.20.6 Thermo-Mechanically Treated bars.				
		Total	2295.1	60.00	Kg	137707.20
	Back Filling & Water Proofing					
3	4.10. Vol. 2, Pg 36	Providing and laying damp-proof course 50mm thick with cement Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate				
		Total	31.01	226	Sqm	7007.25
4	4.12. Vol. 2, Pg 36	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.  Quantity as above		102	Sqm	3162.56
5	4.11. Vol. 2, Pg 36	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement.				
		Nos of Bag@410 kg or 8.2bags per cum	95.32	61.00	Per 50 kg cement	5814.46

S. No	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount in Rs.
	Centering &					
	Shuttering					
	Silaccomig	Centering & shuttering propping and removal of				
	20.1.6, Vol. 2,	form for Columns, Pillars, Piers, Abutments, Posts,				
6	Pg 209	Struts.				
		Total	132.86	282.00	Sqm	37466.52
	20.1.5, Vol. 2,	Centering & shuttering propping and removal of				
7	Pg 209	form for				
		20.1.5 Lintels, beams, plinth beams, girders,				
		bressumers and cantilevers.				
		Total	121.18	203.00	Sqm	24599.54
Archite	ectural Part					
	Brick Work					
		Brick work with well burnt open bhatta bricks				
		crushing strength not less than 25kg/cm² and water				
	6.38, Vol. 2, Pg	absoption not more than 20% in foundation and				
8	62	plinth In cement mortar 1:4.				
		Total	17.36	3136.0	CuM	54450.68
	Cement					
	Plaster					
	13.11, Vol. 2,	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6 mm thick cement				
9	Pg 157	plaster 1:6 (1 cement: 6 fine sand).				
		On Vertical faces in following araes	264.72	1.40.00	C	F 42 4 4 20
		Total	364.73	149.00	Sqm	54344.39
	Stone Work					
10	11.29 Vol.2, Pg 130	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement: 5 coarse sand) including pointing with cement mortar 1:2 (1 cement: 2 stone dust) with an admixture of pigment to match the shade of stone. (minimum size of kota stone 0.25 m)				
		Total	53.25	477.0	SqM	25398.44
	Miscellaneous					
11	10.25 Vol. 2, Pg 116	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.  10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.				
		Total (A+B)	7126.25	67.00	Kg	477458.51
	+	τοιαι (Α-υ)	, 120.23	57.00	ι\δ	7,,730.31

S. No	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount in Rs.
	Painting					
		Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or				
12	Pg 162	manufacture Total	166.41	65.00	cam	10816.62
		Total	100.41	65.00	sqm	10010.02
13	13.26 Vol. 2, Pg 159	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.				
		Quantity as above in Plaster (External)	364.73	82.00	SqM	29907.65
14	13.45. Vol. 2, Pg 161	Finishing walls with textured exterior paint of required shade :				
		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.				
		Quantity as above in External Plaster	364.73	125.00	SqM	45590.93
						1018790.01

BIL	L OF C	QUANTITY - COMMAND & CONT	ROL	CEN	TRE	, JA	BALPU	R		
PA	VER B	LOCK								
Solid	paver Ar	rea = 816.23 Sqm								
	tural Par	·								
S.	SOR									
No	Item	Item of Work	ı	Measure	ement	t	Quantity	Rate	Unit	Amount
	No.									
			No.	L	В	H/D				
	Surface [	Dressing								
1	2.28, Vol	Surface dressing of the ground including								
		removing vegetation and in-equalities not								
		exceeding 15 cm deep and disposal of								
		rubbish, lead upto 50 m and lift upto 1.5 m.								
		(2.28.1) All kinds of soil.	1	816.2			816.23			
		Total					816.23	6.6	SqM	5411.60
	Concrete									
2	4.1.2, Vo	Providing and laying in position cement								
		concrete of specified grade excluding the								
		cost of centering and shuttering All work up								
		to plinth level								
		4.1.2 Cement concrete grade M-15 with 20								
		mm max.size of stone agg.								
		Paver block								
		Below Paver block (Area=816.23)	1	816.2		0.1				
		Total					81.62	4154	CuM	339061.94
		<u></u>				-				
_	itectural	Part T								
-	Flooring	Duranidina and lavina Commathial factors								
3	11.47 VO	Providing and laying 60mm thick factory								
		made cement concrete interlocking paver block of M-30 grade reflective type rubber								
		modulded glossy colour paving block made by block making machine with strong								
		vibratory compaction and of approved size								
		and shape laid in required colour and								
		pattern over and including 60mm thick								
		compacted bed of stone dust filling the								
		joints with sand etc. all complete as per the								
		direction of Engineer in charge including								
		locking edges wherever required wihing								
		cement concrete M15 grade or cement								
		mortor 1:3 with pigment of required shade								
		to match the colour /shade of block								
		including cost of labour, material, etc. all								
		complete.								
<u> </u>		Paver block	1	816.2			816.23			
		Total					816.23	570.0	SqM	465251.10
										0007015
			<u> </u>							809724.65

BILL OF QUANTITY - Command & Control Center, Jabalpur  Based on UADD SOR Vol. 1 to 4 wef 10 May 2012									
.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount			
/IEZAN	VINE FLOOR								
1	Concrete	Reinforced cement concrete work in beams, suspended floors,							
	3.3, 101. 2, 1 6 40	roofs having slope up to 15° landings, balconies, shelves, chajjas,							
		lintels, bands, plain window sills, staircases and spiral stair cases							
		up to floor two level excluding the cost of centering, shuttering,							
		finishing and reinforcement with Cement concrete grade M-20							
		(Nominal Mix with 20 mm maximum size of stone aggregate).							
		(Normal with 20 min maximum size of stone aggregate).							
		beam							
		Total	42.39	5120.00	Cum	217021.0			
	Reinforcement								
	Reinforcement								
	for R.C.C								
2		Reinforcement for R.C.C. work including straightening, cutting,							
	49	bending, placing in position and binding including cost of binding							
		wire upto floor two level including all wastage etc. complete.							
		, , , , , , , , , , , , , , , , , , , ,							
		5.20.6 Thermo-Mechanically Treated bars.							
		Total	6781.91	60.00	Kg	406914.3			
	Water Proofing								
3	4.12. Vol. 2, Pg	Applying a coat of residual petroleum bitumen of penetration							
	36	80/100 of approved quality using 1.7kg per square meter on							
		damp proof course after cleaning the surface with brushes and							
		finally with a piece of cloth lightly soaked in kerosene oil.							
		Quantity as above	25.63	102	Sqm	2614.2			
	Centering &								
	Shuttering								
4	20.1.3, Vol. 2, Pg	Centering & shuttering propping and removal of form for							
	209								
		20.1.3 Suspended floors, roofs, landings, balconies and access							
		platform							
			168.84	227.00	Sqm	38327.4			
5	20.1.5, Vol. 2, Pg	Centering & shuttering propping and removal of form for							
	209								
		2045							
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and							
		cantilevers.							
	Detail 144 1	Total	176.35	203.00	Sqm	35798.9			
	Brick Work	Half being management the constitution of the state of th							
6	, , ,	Half brick masonry with open bhatta of class designation 25 in							
	62	superstructure above plinth level upto floor 2 level including the							
		cost of scaffolding.							
		Cement mortar 1:3		454.55		****			
		Total	8.95	451.00	Sqm	4038.4			
	Cement Plaster								
-		6 mm cement plaster of mix :							

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
		1:3 (1 cement: 3 fine sand)				
		Total	168.84	83.00	Sqm	14014.00
8	13.1, Vol. 2, Pg	12 mm cement plaster of mix :				
	156					
		1:5 (1 cement: 5 fine sand)				
		On Vertical faces in following araes				
		Total	194.26	102.00	Sqm	19814.36
	Flooring					
9	Non SOR Item,	Providing and laying vitrified floor tiles in different sizes with				
		water absorption's less than 0.08% and conforming to IS: 15622				
	Pg 205 (in force	of approved make in all colours and shades, laid on 20mm thick				
	_	cement mortar 1:4 (1 cement : 4 sand) including grouting the				
	2014)	joints with white cement and matching pigments etc., complete.				
		11.53.2 Size of Tile 600x600x9-l0 mm				
		Tatal	114.05	894.00	C~N/	101961.12
10	Non SOR Item,	Total Providing and laying Vitrified tiles in different sizes, with water		894.00	Sqivi	101961.12
10	•	absorption less than 0.08 % and conforming to I.S. 15622, of				
		approved make in all colours and shade in skirting, riser of steps,				
		over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 sand),				
	2014)	including grouting the joint with white cement and matching				
	2014)	pigments etc. complete.				
		11.54.2 Size of Tile 600x600x9-l0 mm				
		11.54.2 5/20 01 1110 000000000 10 111111				
		Total	10.54	888.00	SqM	9357.30
11	Non SOR Item,	Providing and laying Antiskid endura floor tiles of any sizes, 12				
	MPPWD, 11.60,	mm thickness with water absorption's less than 0.08% and				
	Pg 207 (in force	conforming to IS: 15622 of approved make in all colours and				
	from August' 1st	shades, laid on 20mm thick cement mortar 1:4 (1 cement :4 sand)				
	2014)	including grouting the joints with white cement with matching				
		pigments etc., complete.				
		Total	22.82	880.00	SqM	20079.84
12	11.34 Vol. 2, Pg	Providing and fixing Ist quality ceramic glazed wall tiles				
	134	conforming to IS: 15622 (6 to 7mm thick) 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.				
		Total	95.07	686.00	Salv	65218.43
13	Non SOR Item,	Granite work gang saw cut (polished and machine cut) of		555.00	SHIM	03210.43
1.5	MPPWD, 11.28,	thickness 18mm for wall lining (veneer work), backing filled with				
		a grout of average 12 mm thick in cement mortar 1:3 (1 cement :				
		3 sand) including pointing with white cement mortar 1:2 (1 white				
	2014)	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). 11.28.1.2 Area of				
		slab over 0.50 sqm				
		Total	7.50	3720.00	SqM	27900.00
	Joineries					

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
14	10.14.2 Vol. 2, Pg	Providing and fixing pressed steel frames for doors, windows &				
	115	ventilators confirming to IS: 4351manufactured from commercial				
		mild steel sheet of 1.25 mm thickness including hinges jamb, lock				
		jamb, bead and if required angle threshold of mild steel angle of				
		section 50x25mm, or base ties of 1.25mm pressed mild steel				
		welded or rigidly fixed together by mechanical means, adjustable				
		lugs with split end tail to each jamb including steel butt hinges				
		2.5mm thick with mortar guards, lock strike- plate and shock				
		absorbers as specified and applying a coat of approved steel				
		primer after pre-treatment of the surface as directed by Engineer-				
		in-charge: 10.14.2 Single rebate 100x50mm				
4.5	0.001/ 1.0.0.00	Total	40.50	334.00	RM	13527.00
15	9.20 Vol. 2, Pg 90	Providing and fixing ISI marked flush door shutters conforming to				
		IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply				
		veneering with vertical grains or cross bands and face veneers on				
		both faces of shutters using following hinges.				
		9.20.1 35 mm thick including ISI marked Stainless Steel butt				
		hinges with necessary screws.				
		Timiges with necessary serews.				
		D2 (900 x 2100 mm)	11.34			
		D3 (750 x 2100 mm)	3.15			
		Total	14.49	1926	SqM	27907.74
		Add 100% for fittings etc.				27907.74
	Painting					
16	42.40.2.Val. 2.Da	Deinting Charles with Deliver Markit Confess Deint to give an				
16	13.48.3 Voi. 2, Pg 162	Painting Steel work with Deluxe Multi Surface Paint to give an				
	102	even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved				
		brand or manufacture				
		Total	12.15	65.00	sqm	789.75
		Total	12,13	05.00	<b>54</b>	703.75
17	13.26 Vol. 2, Pg	Providing and applying 1.5 mm thick (in two coat) white cement				
	159	based wall putty of best quality, over plastered surface to				
		prepare the surface even and smooth complete.				
		Quantity as above in Plaster (Internal+ external)	363.10	82.00	SqM	29774.35
18	13.48.1 Vol. 2, Pg	Finishing wall with Delux multi surface Paint system for Interiors				
	161	and exteriors using primer as per Specification - Two or more				
		coats applied @1.25Ltr/ 10 sqm over & including one coat of				
		special primer applied @0.75Ltr/ 10 sqm				
		Quantity as above in plaster	363.10	75.00	SqM	27232.64
						1090199

I	BILL OF	QUANTITY - Command & C	Control	Center	, Jab	alpur
S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
TERRACE						
	Concrete					
1	.2, Vol. 2, Pg	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 etc. up to floor two level, excluding the cost of centering, shuttering and finishing:				
		4.2.2 Cement concrete grade M-15 with 20 mm max.size of stone agg.				
		4.13 Extra for concrete work in superstructure above floor Two level for each floors or part thereof. 254 Rs				
			67.43	4565.00	CuM	307799.26
2	3, Vol. 2, Pg	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 two level excluding the cost of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate).				
		Staircase mumty & Water Tank				
		Total	36.81	5211.00	Cum	191819.28
	Reinforcem					
3	).6, Vol. 2, P <sub>i</sub>	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
		Total	4569.59	60.00	Kg	274175.28
	Water Proo	fing				

4	1 Vol 2 Pg	Extra for providing and mixing water				
-	.1. VOI. 2, Fg	proofing material in cement concrete				
		work @ 1 kg per 50kg of cement.				
		work @ 1 kg per 30kg of cernent.				
		Nos of Bag@410 kg or 8.2bags per cum				
			126.94	61.00	)kgcem	7743.25
	Centering &	Shuttering				
	- Contorning of					
5	.6, Vol. 2, Pg	Centering & shuttering propping and				
		removal of form for Columns, Pillars,				
		Piers, Abutments, Posts, Struts.				
		Total	117.18	282.00	Sqm	33045.32
	0.1/1.0.0					
6	.3, Vol. 2, Pg	Centering & shuttering propping and removal of form for				
		removal of form for				
		20.1.3 Suspended floors, roofs, landings,				
		balconies and access platform				
		·				
		Total	156.30	227.00	Sqm	35479.64
7	E Vol 2 Do	Contaring & shuttering propaging and				
′	.5, VOI. 2, Pg	Centering & shuttering propping and removal of form for				
		Temoval of form for				
		20.1.5 Lintels, beams, plinth beams,				
		girders, bressumers and cantilevers.				
		Total	114.90	203.00	Sqm	23325.04
	Brick Work					
8	9. Vol. 2. Pg	Brick work will well burnt open bhatta				
	, ,	bricks crushing strength not less than				
		25kg/cm <sup>2</sup> and water absoption not more				
		than 20% in above plinth level upto floor				
		two level In cm 1:4.				
		T-4-1	02.76	2240.00	C: A4	240257.00
	6.4	Total  Extra for brick work in superstructure	93.76	3310.00	CuM	310357.80
	0.4	above floor 2 level for each floors or part	93.76			
		there of .	33.70	407.00	Sqm	38161.82
				101100	94	00101.01
	Cement Pla	ster				
9	.6, Vol. 2, Pg	6 mm cement plaster of mix :				
	, , ,	1:3 (1 cement: 3 fine sand)				
		Total	156.30	83.00	Sqm	12972.73
<u> </u>						
10	1, Vol. 2, Pg	12 mm cement plaster of mix :				

	1:5 (1 cement: 5 fine sand)				
	On Vertical faces in following area				
	Total	123.66	102.00	Sqm	12613.75

11	.1, Vol. 2, Pg	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement: 6 fine sand).				
		Total	583.73	149.00	Sqm	86976.22
	13.22 Vol. 2, Pg	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.		20.00	Sqm	11674.66
	Flooring					
12	20 Vol. 2, Pg	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.				
		Total	662.22	493.00	SqM	326476.33
13	21 Vol. 2, Pg	Providing gola 75x75 mm in cement concrete M-15 with aggregate 10mm and down gauge including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design:				
		Total	150.05	84.00	RM	12603.78
	Joineries					

1.4	4 2 Val 2 D	Draviding and fiving proceed steel frames				
14	H.2 VOI. 2, P	Providing and fixing pressed steel frames				
		for doors, windows & ventilators				
		confirming to IS: 4351manufactured from				
		commercial mild steel sheet of 1.25 mm				
		thickness including hinges jamb, lock				
		jamb, bead and if required angle				
		threshold of mild steel angle of section				
		50x25mm, or base ties of 1.25mm				
		pressed mild steel welded or rigidly fixed				
		together by mechanical means,				
		adjustable lugs with split end tail to each				
		jamb including steel butt hinges 2.5mm				
		thick with mortar guards, lock strike-				
		plate and shock absorbers as specified				
		and applying a coat of approved steel				
		primer after pre-treatment of the surface				
		as directed by Engineer-in-charge:				
		10.14.2 Single rebate 100x50mm				
		S .				
		D2 (900 x 2100 mm)	10.20			
		Total	10.20	334.00	RM	3406.80
15	4.5 Vol. 2, P	Providing and fixing pressed steel doors,				
		windows and ventilators confirming to IS:				
		4351 manufactured from commercial				
		mild steel sheet of 3.15mm thickness and				
		applying a coat of approved steel primer				
		after pre-treatment of the surface as				
		directed by Engineer-incharge:				
		Total	2 70	1473.00	Salv	EE67.04
	+		5./8	14/3.00	SqM	5567.94
		Add 10% for fittings etc.				556.79

. <u></u>	Painting					
16	8.3 Vol. 2, Pg	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.80 ltr/ 10 sqm of approved brand or manufacture				
		Total	10.62	65.00	sqm	690.30
17	26 Vol. 2, Pg	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.				
		Quantity as above in Plaster (Internal+External)	863.70	82.00	SqM	70823.01
18	8.1 Vol. 2, Pg	Finishing wall with Delux multi surface Paint system for Interiors and exteriors using primer as per Specification - Two or more coats applied @1.25Ltr/ 10 sqm over & including one coat of special primer applied @0.75Ltr/ 10 sqm				
		Quantity as above in plaster	279.96	75.00	SqM	20997.16
19	.5. Vol. 2, Pg	Finishing walls with textured exterior paint of required shade :				
		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.				
		Quantity as above in External Plaster	583.73	125.00	SqM	72966.63
	Missollansa	L.				
	Miscellaneo	us				

		Total	322.65	359.00	Kg	115830.18
21	11 MP PWD	Providing and supplying aluminium extruded tubular				
		Total	257.12		Sqivi	277951.04
		Total	257 12	1081.00	SqM	277951.04
20	6, Pg 206 (in	Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer in all colours and shade in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 11.56.2 Size of Tile 600x600x9-I O mm				

22	.1 MP PWD	Designing, fabricating, testing,				
		Total	66.61	2674.00	Sqm	178108.46
				•		
23	.2 MP PWD	Providing and supplying Spandrel Glass Panels				
		Total	66.61	2174.00	Sqm	144804.71
						2576927.18

		BILL OF QUANTITY - Command & Control C	Center, Ja	balpur		
S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
Ground	floor					
	Concrete					
1	5.3, Vol. 2, Pg 46	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 two level excluding the cost of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate).				
		Total	268.26	5120.00	Cum	1373485.31
2	5.2, Vol. 2, Pg 46	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 two level excluding cost of centering, shuttering, finishing and reinfor cement 5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Total	34.25	5050.00	Cum	172979.06
	Reinforcem ent					
3	5.20.6, Vol. 2, Pg 49	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
		5.20.6 Thermo-Mechanically Treated bars. Total	44805.35	60.00	Kg	2688320.79
	Water Proofing					
4		Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.				
		Quantity as above	26	102	Sqm	2614.28
	Centering & Shuttering					
5	20.1.6, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for Columns, Pillars, Piers, Abutments, Posts, Struts.				
			261.79	282.00	Sqm	73825.34
6	20.1.7, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for				
		20.1.7 Stairs, (excluding landings) except spiral-staircases.				
		Total	24.11	278.00	Sqm	6701.36
7	20.1.3, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for			-	
		20.1.3 Suspended floors, roofs, landings, balconies and access platform				
			770.3	227.00	Sqm	174852.0

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
8	20.1.5, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for				
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.				
		Total	1447.11	203.00	Sqm	293762.56
	Brick Work					
9		Brick work will well burnt open bhatta bricks crushing strength not less than 25kg/cm² and water absoption not more than 20% in above plinth level upto floor two level In cm 1:4.				
	6 44 14 1 9		133.94	3310.00	CuM	443334.38
10	6.44, Vol. 2, Pg 62	Half brick masonry with open bhatta of class designation 25 in superstructure above plinth level upto floor 2 level including the cost of scaffolding.				
		Total	337.350	451.00	Sqm	152144.85
	Cement Plaster					
11	13.16, Vol. 2, Pg 157	6 mm cement plaster of mix :				
		1:3 (1 cement: 3 fine sand)				
		Total	794.379	83.00	Sqm	65933.45
12	13.1, Vol. 2, Pg 156	12 mm cement plaster of mix :				
		1:5 (1 cement: 5 fine sand)				
		On Vertical faces in following araes				
13	13.11, Vol.	Total  18 mm cement plaster in two coats under layer 12 mm thick	2581.29	102.00	Sqm	263291.78
13	2, Pg 157	cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement: 6 fine sand).				
		Total	1133.03	149.00	Sqm	168822.08
	Flooring					
	Flooring					
14	Non SOR Item, MPPWD, 11.53 , Pg 205 (in force from August' 1st 2014)	Providing and laying vitrified floor tiles in different sizes with water absorption's 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 sand) including grouting the joints with white cement and matching pigments etc., complete. 11.53.2 Size of Tile 600x600x9-I0 mm				
		Total	563.43	894.00	SqM	503705.59
15	Non SOR Item, MPPWD, 11.54, Pg 205 (in force from August' 1st 2014)	Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours and shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 sand), including grouting the joint with white cement and matching pigments etc. complete.  11.54.2 Size of Tile 600x600x9-I0 mm)				
	1	Total	23.40	888.00	SqM	20777.87

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
16	Non SOR Item, MPPWD, 11.60 , Pg 207 (in force from	Providing and laying Antiskid endura floor tiles of any sizes, 12 mm thickness with water absorption's 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 sand) including grouting the joints with white cement with matching pigments etc., complete.				
		Total	22.82	880.00	SqM	20079.84
17	11.34 Vol. 2, Pg 134	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (6 to 7mm thick) 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.				
		Total	95.07	686.00	SqM	65218.43
18	8.2Vol. 2, Pg 78	Providing and fixing 16mm 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.  8.2.8 Granite of any colour and shade 8.2.8.2 Area of slab over 0.50 sqm.				
		Total	237.99	2544.00	SqM	605451.65
19	8.3Vol. 2, Pg 79	Extra for providing full edge moulding to 16mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineerin- Charge.  8.3.2 Granite work.				
		Total	81.00	146.00	RM	11826.00
20	Non SOR Item, MPPWD, 11.33, Pg 203 (in force from August' 1st 2014)	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.				
		Total	16.08	3413.00	SqM	54881.04
21	Non SOR Item, MPPWD, 11.28, Pg 202 (in force from August' 1st 2014)	Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement: 3 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). 11.28.1.2 Area of slab over 0.50 sqm				
		Total	7.50	3720.00	SqM	27900.00

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
	Joineries					
22		Providing and fixing pressed steel frames for doors, windows &				
	2, Pg 115	ventilators confirming to IS: 4351manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike- plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: 10.14.2 Single rebate 100x50mm				
		Tatal	F7 20	224.00	DNA	10129 20
23	9.20 Vol. 2, Pg 90	Total  Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges. 9.20.1 9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	57.30	334.00	RM	19138.20
		Total	14.49	1926	SqM	27907.74
		Add 100% for fittings etc.				27907.74
24		Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B) , using 4mm thick float glass panes for doors, windows and clerestory windows includingEngineer-in-charge. 9.10.1 30 mm thick shutters @Rs. 2006/- per sqm				
		Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm (Area of opening for glass panes excluding portion inside rebateshall be measured). @Rs. 180/- per sqm Total Rate Rs.				
		2006+180 = 2186/-	1.00	2100		2024.00
		Total Add 30% for fittings etc.	1.80	2186	sqm	3934.80 1180.44
	Painting					
25	13.48.3 Vol. 2, Pg 162	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture				
		Total	17.19	65.00	sqm	1117.35
26	13.26 Vol. 2, Pg 159	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.				
		Quantity as above in Plaster (Internal+ external)	3608.66	82.00	SqM	295909.87

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
27	13.48.1 Vol. 2, Pg 161	Finishing wall with Delux multi surface Paint system for Interiors and exteriors using primer as per Specification - Two or more coats applied @1.25Ltr/ 10 sqm over & including one coat of special primer applied @0.75Ltr/ 10 sqm				
		Quantity as above in plaster	3375.67	75.00	SqM	253175.32
28	13.45. Vol. 2, Pg 161	Finishing walls with textured exterior paint of required shade :				
		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.				
		Quantity as above in External Plaster	1366.02	125.00	SqM	170752.52
	Miscellaneo us					
29	Non SOR Item, MPPWD, 10.25, Pg 182 (in force from August' 1st 2014)	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 and stainless steel dash fasteners , stainless steel bolts etc., ofrequired 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.)				
		Total	165	793.75	kg	130968.75
30	Non SOR Item, MPPWD, 11.56, Pg 206 (in force from August' 1st 2014)	Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer in all colours and shade in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 11.56.2 Size of Tile 600x600x9-I O mm				
		Total	244.30	1081.00	SqM	264088.95
31	Non SOR Item (Ref - 8.1 , Pg 111 MP PWD in force from August 1st 2014)	Providing and supplying aluminium extruded tubular frame etc complete as per specification laid down in MP PWD SOR.				
	1	Total	159.69	359	Kg	57327.39

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
32	Non SOR Item (Ref - 8.2, Pg 111 MP PWD in force from August 1st 2014)	Designing, fabricating, testing, etc complete as per specification laid down in MP PWD SOR.				
		Total	32.97	2674	Sqm	88150.55
33	Non SOR Item (Ref - 8.3, Pg 112 MP PWD in force from August 1st 2014)	Providing, assembling and supplying vision glass panels etc complete as per specification laid down in MP PWD SOR.				
		Total	29.67	3635	Sqm	107847.61
34	Non SOR Item (Ref - 8.4, Pg 112 MP PWD in force from August 1st 2014)	Extra for openable side / top hung vision glass panels etc complete as per specification laid down in MP PWD SOR.				
		Total	6.59	3009	Sqm	19838.82
35	Non SOR Item (Ref - 8.6, Pg 112 MP PWD in force from August 1st 2014)	Providing and supplying Spandrel Glass Panels etc complete as per specification laid down in MP PWD SOR.				
		Total	3.30	2174	Sqm	7166.76
36	Non SOR Item (Ref - 21.18, Pg 365 MP PWD in force from August 1st 2014)	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top bottom pivot spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).				
		Total	8.64	4958.00	RM	42837.12
37	Non SOR Item (Ref - 12.64 , Pg 233 MP PWD in force from August 1st 2014)	Glass fibre accoustical suspended false ceiling etc complete as per specification laid down in MP PWD SOR.				
		Total	88.17	2461	kg	216994.84

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
38	12.45 Vol. 2, Pg 150	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS: 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and peri meter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long,				
		the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures 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 drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with:				
		12.45.1) 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I.	F0.35	740	Could	42640.50
		Total	59.36	718	SqM	42619.50 8968772.00

	BII	LL OF QUANTITY - Command & Control	Center	, Jabalı	our	
S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
First F	loor					
	Concrete					
1		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 two level excluding the cost				
		of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm				
		maximum size of stone aggregate).				
	5.3, Vol. 2, Pg 46					
		Total	268.96	5120.00	Cum	1377066.37
2		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 two level excluding cost of centering,				
		shuttering, finishing and reinfor cement				
		5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20				
		mm maximum				
	5.2, Vol. 2, Pg 46	size of stone aggregate.				
	_ , , , , , ,	Total	58.52	5050.00	Cum	295505.90
	Reinforcement					
	Reinforcement					
	for R.C.C					
3		Reinforcement for R.C.C. work including straightening,				
	5 20 C V. L 2	cutting, bending, placing in position and binding including				
	5.20.6, Vol. 2, Pg 49	cost of binding wire upto floor two level including all wastage etc. complete.				
	1 6 43	5.20.6 Thermo-Mechanically Treated bars.				
		Total	44552.51	60.00	Kg	2673150.31
	Water Proofing					
4		Applying a coat of residual petroleum bitumen of				
		penetration 80/100 of approved quality using 1.7kg per				
		square meter on damp proof course after cleaning the				
	4.12. Vol. 2, Pg	surface with brushes and finally with a piece of cloth lightly				
	36	soaked in kerosene oil.  Quantity as above	26	102	Sqm	2614.28
	Centering &	Quantity as above	20	102	JqIII	2014.20
	Shuttering					
5		Centering & shuttering propping and removal of form for				
	20.1.6, Vol. 2,	Columns, Pillars, Piers, Abutments, Posts, Struts.				
	Pg 209		447.22	202.00	Same	126110 20
6	20.1.7, Vol. 2,	Centering & shuttering propping and removal of form for	447.23	282.00	oqm	126118.30
	Pg 209	2				

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
		20.1.7 Stairs, (excluding landings) except spiral-staircases.				
		Total	42.18	278.00	Sqm	11727.37
7	20.1.3, Vol. 2,	Centering & shuttering propping and removal of form for	42.10	278.00	Jqiii	11/2/.5/
,	Pg 209	centering & shuttering propping and removal or form for				
		20.1.3 Suspended floors, roofs, landings, balconies and access platform				
			751.3	227.00	Sqm	170534.20
8	20.1.5, Vol. 2,	Centering & shuttering propping and removal of form for				
0	Pg 209	Centering & shuttering propping and removal or form for				
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and				
		cantilevers.				
		Total	1453.24	203.00	Sqm	295008.57
	Brick Work					
9		Brick work will well burnt open bhatta bricks crushing				
		strength not less than 25kg/cm² and water absoption not				
		more than 20% in above plinth level upto floor two level In				
	62	cm 1:4.	22445	2240.00	C. D.A	775044.00
			234.15	3310.00	Culvi	775044.89
10		Half brick masonry with open bhatta of class designation 25				
	6.44, Vol. 2, Pg	in superstructure above plinth level upto floor 2 level				
	62	including the cost of scaffolding.				
	02	Total	570.410	451.00	Sqm	257254.82
			3701120	.02.00	<b>54</b>	207201102
	Cement Plaster					
	Cement Plaster					
11	13 16 Vol 2 Pg	6 mm cement plaster of mix :				
	157	o min cement plaster of mix.				
		1:3 (1 cement: 3 fine sand)				
		Total	793.437	83.00	Sqm	65855.25
12	13.1, Vol. 2, Pg 156	12 mm cement plaster of mix :				
	130	1:5 (1 cement: 5 fine sand)				
		On Vertical faces in following araes				
		Total	3430.20	102.00	Sqm	349880.82
			3130120	101.00	54	0.3000.02
13		18 mm cement plaster in two coats under layer 12 mm thick				
		cement plaster 1:5 (1 cement: 5 coarse sand) finished with a				
	13.11, Vol. 2, Pg	top layer 6 mm thick cement plaster 1:6 (1 cement: 6 fine				
	157	sand).				
		Total	1133.03	149.00	Sqm	168822.08
	Flooring					

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
14		Providing and laying vitrified floor tiles in different sizes with				
		water absorption's 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 sand) including				
		grouting the joints with white cement and matching				
		pigments etc., complete. 11.53.2 Size of				
		Tile 600x600x9-l0 mm				
	2014)	T-1-1	FC2 42	004.00	CarNA	F0270F F0
15		Total  Drawiding and laving Vitrified tiles in different sizes with	563.43	894.00	SqM	503705.59
15		Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08 % and conforming to I.S.				
		15622, of approved make in all colours and shade in skirting,				
		riser of steps,				
	-	over 12 mm thick bed of cement mortar 1:3 (1 cement: 3				
		sand), including grouting the joint with white cement and				
		matching pigments etc. complete. 11.54.2				
		Size of Tile 600x600x9-l0 mm )				
		Total	23.40	888.00	SqM	20777.87
16		Providing and laying Antiskid endura floor tiles of any sizes,				
		12 mm thickness with water absorption's 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 sand) including grouting the joints with white				
		cement with matching pigments etc., complete.				
	2014)	T-1-1	22.02	990 00	CarDA	20070.04
17		Total  Providing and fixing Ist quality ceramic glazed wall tiles	22.82	880.00	Sqivi	20079.84
17		conforming to IS: 15622 (6 to 7mm thick) 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.				
	11.34 Vol. 2, Pg					
	134					
		Total	95.07	686.00	SqM	65218.43
18		Providing and fixing 16mm 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.				
		8.2.8 Granite of any colour and shade 8.2.8.2 Area of				
		slab over 0.50 sqm.				
	8.2Vol. 2, Pg 78					
		Total	44.99	2544.00	SqM	114460.92

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
19		Extra for providing full edge moulding to 16mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineerin- Charge.  8.3.2 Granite work.				
		Total	83.95	146.00	RM	
20	MPPWD, 11.33,	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.				
		Total	19.23	3413.00	SqM	65631.99
21	MPPWD, 11.28,	11.28.1.2 Area of slab over 0.50 sqm				
		Total	7.50	3720.00	SqM	27900.00
	Lainarias					
	Joineries					
22	10.14.2 Vol. 2, Pg 115	Providing and fixing pressed steel frames for doors, windows & ventilators confirming to IS: 4351manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike- plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-incharge: 10.14.2 Single rebate 100x50mm				
		Total	78.00	334.00	RM	26052.00

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
23		Providing and fixing ISI marked flush door shutters				
		conforming to IS: 2202 (Part I) decorative type, core of block				
		board construction with frame of 1st class hard wood and				
		well matched teak 3 ply veneering with vertical grains or				
		cross bands and face veneers on both faces of shutters using				
		following hinges. 9.20.1 35 mm thick				
	9.20 Vol. 2, Pg	including ISI marked Stainless Steel butt hinges with				
	90	necessary screws.				
		Total	14.49	1926	SqM	27907.74
		Add 100% for fittings etc.				
24		Providing and fixing factory made laminated veneer lumber				
		glazed shutter conforming to IS: 14616 and TADS 15:2001				
		(Part B) , using 4mm thick float glass panes for doors,				
		windows and clerestory windows including Engineer-in-				
	9.10.12 Vol. 2,	charge.				
	Pg 88,89	9.10.1 30 mm thick shutters @Rs. 2006/- per sqm				
		Extra for providing frosted glass panes 4 mm thick instead of				
		ordinary float glass panes 4 mm (Area of opening for				
		glass panes excluding portion inside rebateshall be				
		measured). @Rs. 180/- per sqm				
		Total Rate Rs. 2006+180 = 2186/-	2.25	2100		4010 50
		Total	2.25	2186	sqm	4918.50
		Add 30% for fittings etc.				
	Painting					
25		Painting Steel work with Deluxe Multi Surface Paint to give				
		an even shade. Two or more coat applied @0.90 ltr/10 sqm				
		over an under coat of primer applied @ 0.80 ltr/ 10 sqm of				
		approved brand or manufacture				
	Pg 162					
		Total	23.40	65.00	sqm	1521.00
26		Providing and applying 1.5 mm thick (in two coat) white				
		cement based wall putty of best quality, over plastered				
	13.26 Vol. 2, Pg	surface to prepare the surface even and smooth complete.				
	159					
		Quantity as above in Plaster (Internal Loytornal)	4456.63	82.00	Cal.4	365443.40
		Quantity as above in Plaster (Internal+ external)	4430.03	82.00	Sqivi	303443.40
27		Finishing wall with Delux multi surface Paint system for				
		Interiors and exteriors using primer as per Specification -				
		Two or more coats applied @1.25Ltr/ 10 sqm over &				
	13.48.1 Vol. 2,	including one coat of special primer applied @0.75Ltr/ 10				
	Pg 161	sqm				
		Ougatitu on alta un in minimum	4222.61	75.00	Cailla	246772.66
		Quantity as above in plaster	4223.64	75.00	SqIVI	316773.06
28	13.45. Vol. 2, Pg	Finishing walls with textured exterior paint of required				
	161	shade:				

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
		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.				
		Quantity as above in External Plaster	1366.02	125.00	SqM	170752.52
	Miscellaneous					
29		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 and stainless steel dash fasteners, stainless steel				
		bolts etc., ofrequired size, on the top of the floor or the side				
		of waist slab with suitable arrangement as per approval of				
	Non SOR Item,	Engineer-in-charge. ( for payment purpose only weight of				
	-	stainless steel members shall be considered excluding fixing				
		accessories such as nuts, bolts, fasteners etc.)				
	from August' 1st					
	2014)					
	2011)	Total	412.5	793.75	kg	327421.88
30		Providing and laying Vitrified tiles in different sizes, with				
		water absorption less than 0.08% and conforming to IS:				
		15622, of approved brand and manufacturer in all colours				
		and shade in skirting, riser of steps, laid with cement based				
		high polymer modified quick set tile adhesive (water based)				
		conforming to IS: 15477, in average 6 mm thickness,				
	Non SOR Item,	including grouting of joints (Payment for grouting of joints				
	MPPWD, 11.56,	to be made separately). 11.56.2 Size of Tile 600x600x9-I O				
	Pg 206 (in force	mm				
	from August' 1st					
	2014)					
		Total	373.97	1081.00	SqM	404259.19
31	Non SOR Item	Providing and supplying aluminium extruded tubular (See				
	(Ref - 8.1 , Pg	specification in PWD SOR)				
	111 MP PWD in					
	force from					
	August 1st					
	2014)					
i		Total	230.09	359	Kg	82602.66
32	Non SOR Item	Designing, fabricating, testing, (See specification in PWD		•		
J_	(Ref - 8.2, Pg	SOR)				
	111 MP PWD in	John J				
	force from					
	August 1st					
	2014)					
		Total	47.50	2674	Sqm	127015.53
	i			l	<del></del>	

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
33	Non SOR Item	Providing, assembling and supplying vision glass panels (See				
	(Ref - 8.3, Pg	specification in PWD SOR)				
	112 MP PWD in					
	force from					
	August 1st					
	2014)					
		Total	42.75	3635	Sqm	155396.90
2.4	Nan COD Harra					
34	Non SOR Item	Extra for openable side / top hung vision glass panels				
	(Ref - 8.4, Pg					
	112 MP PWD in					
	force from					
	August 1st					
	2014)					
		Total	9.50	3009	Sqm	28585.62
35	Non SOR Item	Providing and supplying Spandrel Glass Panels (See				
	(Ref - 8.6, Pg	specification in PWD SOR)				
	112 MP PWD in					
	force from					
	August 1st					
	2014)					
		façade (10% Spandrel panel)	4.75	_	_	
		Total	4.75	2174	Sqm	10326.54
36		Providing and fixing 12 mm thick frameless toughened glass				
		door shutter of approved brand and manufacture, including				
	Non SOR Item	providing and				
	(Ref - 21.18, Pg	fixing top bottom pivot spring type fixing arrangement and				
	365 MP PWD in	making necessary holes etc. for fixing required door fittings,				
	force from	all complete as per direction of Engineer-incharge (Door				
	August 1st	handle, lock and stopper etc.to be paid separately).				
	2014)	and stopper eteric se para separatery).				
		Total	4.32	4958.00	RM	21418.56
						9456752.91

BILL C	OF QUAI	NTITY - Command & Control Cen	ter, Jabal	pur		
S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
Foundat	<u>I</u> ion and Str	L ucture up to Plinth Level				
	Surface Di	ressing				
1	2.28, vol 2	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
		total /100	16	663	100Sqm	10608.00
	Excavatio	n				
1	2.8.1, Vol.	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.  2.8.1 All kinds of soil				
			352.15	129	CuM	45427.35
	Concrete					
1	16.3, Vol.	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 35 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :16.9.3 450 mm dia piles				
		Total	540.0	2377	Rm	1283580.00

						1
1	16.3, Vol.	Boring, Providing and installing cast in situ				
		single under reamed piles of specified				
		diameter and length below pile cap in M 35				
		cement concrete, to carry a safe working				
		load not less than specified, excluding the				
		cost of steel reinforcement but including the				
		cost of boring with bentonite solution and				
		the length of the pile to be embedded in pile				
		cap etc. all complete. (Length of pile for				
		payment shall be measured upto to the				
		bottom of pile cap) :				
		16.3.2 400 mm dia piles				
		·				
		Total	200.0	2138	Rm	427600.00
1	, Vol. 2, Pք	Extra over item No. 16.3 for providing				
		additional bulb in under				
		reamed piles, under specified diameter (Only				
		the quantity of extra				
		bulbs are to be paid).				
		Total	108.0	1402	Each	151416.00

2	, Vol. 2, Pg	Extra over item No. 16.3 for providing additional bulb in under reamed piles, under specified diameter (Only the quantity of extra bulbs are to be paid).  Total	40.0	1200	Each	51600.00
		Total	40.0	1290	Eacii	51600.00
2	5.1, Vol. 2	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: Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Total	321.32	4728	Cum	1519211.55
	Reinforce	ment				
	Reinforce	ment for R.C.C				
3	5.20.6, Vo	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
		5.20.6 Thermo-Mechanically Treated bars.				
		Total	57064.77	60	Kg	3423886.22
2	4.1.2, Vol.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level				
		4.1.2 Cement concrete grade M-15 with 20 mm max.size of stone agg.				
			26	4154	CuM	106342.40

Back Filling & Water Proofing				
5 2.27.1, Vo Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.  2.27.3 Murrum				
	350	570	CuM	199459
6 4.11. Vol. Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement.				
Nos of Bag@410 kg or 8.2bags per cum	2634.84	61.00	Per 50kgce	160725
Centering & Shuttering				
6 20.1.6, Vo Centering & shuttering propping and removal of form for Columns, Pillars, Piers, Abutments, Posts, Struts.				
Total	281.00	282.00	Sqm	79240
8 20.1.3, Vo Centering & shuttering propping and removal of form for				
20.1.3 Suspended floors, roofs, landings, balconies and access platform				
Total	684.2	227.00	Sqm	155313
9 20.1.5, Vo Centering & shuttering propping and removal of form for				
20.1.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.				
Total	422.73	203.00	Sqm	85814
				7700225

		BILL OF QUANTITY - Command & Control (	Center, Ja	balpur		
S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
Ground	floor					
	Concrete					
1	5.3, Vol. 2, Pg 46	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 two level excluding the cost of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate).				
		Total	268.26	5120.00	Cum	1373485.31
2	5.2, Vol. 2, Pg 46	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 two level excluding cost of centering, shuttering, finishing and reinfor cement 5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Total	34.25	5050.00	Cum	172979.06
	Reinforcem ent					
3	5.20.6, Vol. 2, Pg 49	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
		5.20.6 Thermo-Mechanically Treated bars. Total	44805.35	60.00	Kg	2688320.79
	Water Proofing					
4		Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.				
		Quantity as above	26	102	Sqm	2614.28
	Centering & Shuttering					
5	20.1.6, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for Columns, Pillars, Piers, Abutments, Posts, Struts.				
			261.79	282.00	Sqm	73825.34
6	20.1.7, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for				
		20.1.7 Stairs, (excluding landings) except spiral-staircases.				
		Total	24.11	278.00	Sqm	6701.36
7	20.1.3, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for			-	
		20.1.3 Suspended floors, roofs, landings, balconies and access platform				
			770.3	227.00	Sqm	174852.0

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
8	20.1.5, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for				
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.				
		Total	1447.11	203.00	Sqm	293762.56
	Brick Work					
9		Brick work will well burnt open bhatta bricks crushing strength not less than 25kg/cm² and water absoption not more than 20% in above plinth level upto floor two level In cm 1:4.				
	6 44 14 1 9		133.94	3310.00	CuM	443334.38
10	6.44, Vol. 2, Pg 62	Half brick masonry with open bhatta of class designation 25 in superstructure above plinth level upto floor 2 level including the cost of scaffolding.				
		Total	337.350	451.00	Sqm	152144.85
	Cement Plaster					
11	13.16, Vol. 2, Pg 157	6 mm cement plaster of mix :				
		1:3 (1 cement: 3 fine sand)				
		Total	794.379	83.00	Sqm	65933.45
12	13.1, Vol. 2, Pg 156	12 mm cement plaster of mix :				
		1:5 (1 cement: 5 fine sand)				
		On Vertical faces in following araes				
13	13.11, Vol.	Total  18 mm cement plaster in two coats under layer 12 mm thick	2581.29	102.00	Sqm	263291.78
13	2, Pg 157	cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement: 6 fine sand).				
		Total	1133.03	149.00	Sqm	168822.08
	Flooring					
	Flooring					
14	Non SOR Item, MPPWD, 11.53 , Pg 205 (in force from August' 1st 2014)	Providing and laying vitrified floor tiles in different sizes with water absorption's 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 sand) including grouting the joints with white cement and matching pigments etc., complete. 11.53.2 Size of Tile 600x600x9-I0 mm				
		Total	563.43	894.00	SqM	503705.59
15	Non SOR Item, MPPWD, 11.54, Pg 205 (in force from August' 1st 2014)	Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours and shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 sand), including grouting the joint with white cement and matching pigments etc. complete.  11.54.2 Size of Tile 600x600x9-I0 mm)				
	1	Total	23.40	888.00	SqM	20777.87

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
16	Non SOR Item, MPPWD, 11.60 , Pg 207 (in force from	Providing and laying Antiskid endura floor tiles of any sizes, 12 mm thickness with water absorption's 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 sand) including grouting the joints with white cement with matching pigments etc., complete.				
		Total	22.82	880.00	SqM	20079.84
17	11.34 Vol. 2, Pg 134	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (6 to 7mm thick) 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.				
		Total	95.07	686.00	SqM	65218.43
18	8.2Vol. 2, Pg 78	Providing and fixing 16mm 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.  8.2.8 Granite of any colour and shade 8.2.8.2 Area of slab over 0.50 sqm.				
		Total	237.99	2544.00	SqM	605451.65
19	8.3Vol. 2, Pg 79	Extra for providing full edge moulding to 16mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineerin- Charge.  8.3.2 Granite work.				
		Total	81.00	146.00	RM	11826.00
20	Non SOR Item, MPPWD, 11.33, Pg 203 (in force from August' 1st 2014)	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.				
		Total	16.08	3413.00	SqM	54881.04
21	Non SOR Item, MPPWD, 11.28, Pg 202 (in force from August' 1st 2014)	Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement: 3 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). 11.28.1.2 Area of slab over 0.50 sqm				
		Total	7.50	3720.00	SqM	27900.00

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
	Joineries					
22		Providing and fixing pressed steel frames for doors, windows &				
	2, Pg 115	ventilators confirming to IS: 4351manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike- plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: 10.14.2 Single rebate 100x50mm				
		Tatal	F7 20	224.00	DNA	10129 20
23	9.20 Vol. 2, Pg 90	Total  Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges. 9.20.1 9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	57.30	334.00	RM	19138.20
		Total	14.49	1926	SqM	27907.74
		Add 100% for fittings etc.				27907.74
24		Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B) , using 4mm thick float glass panes for doors, windows and clerestory windows includingEngineer-in-charge. 9.10.1 30 mm thick shutters @Rs. 2006/- per sqm				
		Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm (Area of opening for glass panes excluding portion inside rebateshall be measured). @Rs. 180/- per sqm Total Rate Rs.				
		2006+180 = 2186/-	1.00	2100		2024.00
		Total Add 30% for fittings etc.	1.80	2186	sqm	3934.80 1180.44
	Painting					
25	13.48.3 Vol. 2, Pg 162	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture				
		Total	17.19	65.00	sqm	1117.35
26	13.26 Vol. 2, Pg 159	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.				
		Quantity as above in Plaster (Internal+ external)	3608.66	82.00	SqM	295909.87

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
27	13.48.1 Vol. 2, Pg 161	Finishing wall with Delux multi surface Paint system for Interiors and exteriors using primer as per Specification - Two or more coats applied @1.25Ltr/ 10 sqm over & including one coat of special primer applied @0.75Ltr/ 10 sqm				
		Quantity as above in plaster	3375.67	75.00	SqM	253175.32
28	13.45. Vol. 2, Pg 161	Finishing walls with textured exterior paint of required shade :				
		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.				
		Quantity as above in External Plaster	1366.02	125.00	SqM	170752.52
	Miscellaneo us					
29	Non SOR Item, MPPWD, 10.25, Pg 182 (in force from August' 1st 2014)	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 and stainless steel dash fasteners , stainless steel bolts etc., ofrequired 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.)				
		Total	165	793.75	kg	130968.75
30	Non SOR Item, MPPWD, 11.56, Pg 206 (in force from August' 1st 2014)	Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer in all colours and shade in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 11.56.2 Size of Tile 600x600x9-I O mm				
		Total	244.30	1081.00	SqM	264088.95
31	Non SOR Item (Ref - 8.1 , Pg 111 MP PWD in force from August 1st 2014)	Providing and supplying aluminium extruded tubular frame etc complete as per specification laid down in MP PWD SOR.				
	1	Total	159.69	359	Kg	57327.39

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
32	Non SOR Item (Ref - 8.2, Pg 111 MP PWD in force from August 1st 2014)	Designing, fabricating, testing, etc complete as per specification laid down in MP PWD SOR.				
		Total	32.97	2674	Sqm	88150.55
33	Non SOR Item (Ref - 8.3, Pg 112 MP PWD in force from August 1st 2014)	Providing, assembling and supplying vision glass panels etc complete as per specification laid down in MP PWD SOR.				
		Total	29.67	3635	Sqm	107847.61
34	Non SOR Item (Ref - 8.4, Pg 112 MP PWD in force from August 1st 2014)	Extra for openable side / top hung vision glass panels etc complete as per specification laid down in MP PWD SOR.				
		Total	6.59	3009	Sqm	19838.82
35	Non SOR Item (Ref - 8.6, Pg 112 MP PWD in force from August 1st 2014)	Providing and supplying Spandrel Glass Panels etc complete as per specification laid down in MP PWD SOR.				
		Total	3.30	2174	Sqm	7166.76
36	Non SOR Item (Ref - 21.18, Pg 365 MP PWD in force from August 1st 2014)	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top bottom pivot spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).				
		Total	8.64	4958.00	RM	42837.12
37	Non SOR Item (Ref - 12.64 , Pg 233 MP PWD in force from August 1st 2014)	Glass fibre accoustical suspended false ceiling etc complete as per specification laid down in MP PWD SOR.				
		Total	88.17	2461	kg	216994.84

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
38	12.45 Vol. 2, Pg 150	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS: 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and peri meter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long,				
		the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures 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 drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with:				
		12.45.1) 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I.	F0.35	740	Could	42640.50
		Total	59.36	718	SqM	42619.50 8968772.00

	BII	LL OF QUANTITY - Command & Control	Center	, Jabalı	our	
S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
First F	loor					
	Concrete					
1		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 two level excluding the cost				
		of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm				
		maximum size of stone aggregate).				
	5.3, Vol. 2, Pg 46					
		Total	268.96	5120.00	Cum	1377066.37
2		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 two level excluding cost of centering,				
		shuttering, finishing and reinfor cement				
		5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20				
		mm maximum				
	5.2, Vol. 2, Pg 46	size of stone aggregate.				
	_ , , , , , ,	Total	58.52	5050.00	Cum	295505.90
	Reinforcement					
	Reinforcement					
	for R.C.C					
3		Reinforcement for R.C.C. work including straightening,				
	5 20 C V. L 2	cutting, bending, placing in position and binding including				
	5.20.6, Vol. 2, Pg 49	cost of binding wire upto floor two level including all wastage etc. complete.				
	1 6 43	5.20.6 Thermo-Mechanically Treated bars.				
		Total	44552.51	60.00	Kg	2673150.31
	Water Proofing					
4		Applying a coat of residual petroleum bitumen of				
		penetration 80/100 of approved quality using 1.7kg per				
		square meter on damp proof course after cleaning the				
	4.12. Vol. 2, Pg	surface with brushes and finally with a piece of cloth lightly				
	36	soaked in kerosene oil.  Quantity as above	26	102	Sqm	2614.28
	Centering &	Quantity as above	20	102	JqIII	2014.20
	Shuttering					
5		Centering & shuttering propping and removal of form for				
	20.1.6, Vol. 2,	Columns, Pillars, Piers, Abutments, Posts, Struts.				
	Pg 209		447.22	202.00	Same	126110 20
6	20.1.7, Vol. 2,	Centering & shuttering propping and removal of form for	447.23	282.00	oqm	126118.30
	Pg 209	2				

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
		20.1.7 Stairs, (excluding landings) except spiral-staircases.				
		Total	42.18	278.00	Sqm	11727.37
7	20.1.3, Vol. 2,	Centering & shuttering propping and removal of form for	42.10	278.00	Jqiii	11/2/.5/
,	Pg 209	centering & shuttering propping and removal or form for				
		20.1.3 Suspended floors, roofs, landings, balconies and access platform				
			751.3	227.00	Sqm	170534.20
8	20.1.5, Vol. 2,	Centering & shuttering propping and removal of form for				
0	Pg 209	Centering & shuttering propping and removal or form for				
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and				
		cantilevers.				
		Total	1453.24	203.00	Sqm	295008.57
	Brick Work					
9		Brick work will well burnt open bhatta bricks crushing				
		strength not less than 25kg/cm² and water absoption not				
		more than 20% in above plinth level upto floor two level In				
	62	cm 1:4.	22445	2240.00	C. D.A	775044.00
			234.15	3310.00	Culvi	775044.89
10		Half brick masonry with open bhatta of class designation 25				
	6.44, Vol. 2, Pg	in superstructure above plinth level upto floor 2 level				
	62	including the cost of scaffolding.				
	02	Total	570.410	451.00	Sqm	257254.82
			3701120	.02.00	<b>54</b>	207201102
	Cement Plaster					
	Cement Plaster					
11	13 16 Vol 2 Pg	6 mm cement plaster of mix :				
	157	o min cement plaster of mix.				
		1:3 (1 cement: 3 fine sand)				
		Total	793.437	83.00	Sqm	65855.25
12	13.1, Vol. 2, Pg 156	12 mm cement plaster of mix :				
	130	1:5 (1 cement: 5 fine sand)				
		On Vertical faces in following araes				
		Total	3430.20	102.00	Sqm	349880.82
			3130.20	101.00	54	0.3000.02
13		18 mm cement plaster in two coats under layer 12 mm thick				
		cement plaster 1:5 (1 cement: 5 coarse sand) finished with a				
	13.11, Vol. 2, Pg	top layer 6 mm thick cement plaster 1:6 (1 cement: 6 fine				
	157	sand).				
		Total	1133.03	149.00	Sqm	168822.08
	Flooring					

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
14		Providing and laying vitrified floor tiles in different sizes with				
		water absorption's 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 sand) including				
		grouting the joints with white cement and matching				
		pigments etc., complete. 11.53.2 Size of				
		Tile 600x600x9-l0 mm				
	2014)	T-1-1	FC2 42	204.00	CarNA	F0270F F0
15		Total  Drawiding and laving Vitrified tiles in different sizes with	563.43	894.00	SqM	503705.59
15		Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08 % and conforming to I.S.				
		15622, of approved make in all colours and shade in skirting,				
		riser of steps,				
	-	over 12 mm thick bed of cement mortar 1:3 (1 cement: 3				
		sand), including grouting the joint with white cement and				
		matching pigments etc. complete. 11.54.2				
		Size of Tile 600x600x9-l0 mm )				
		Total	23.40	888.00	SqM	20777.87
16		Providing and laying Antiskid endura floor tiles of any sizes,				
		12 mm thickness with water absorption's 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 sand) including grouting the joints with white				
		cement with matching pigments etc., complete.				
	2014)	T-1-1	22.02	990 00	CarDA	20070.04
17		Total  Providing and fixing Ist quality ceramic glazed wall tiles	22.82	880.00	Sqivi	20079.84
17		conforming to IS: 15622 (6 to 7mm thick) 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.				
	11.34 Vol. 2, Pg					
	134					
		Total	95.07	686.00	SqM	65218.43
18		Providing and fixing 16mm 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.				
		8.2.8 Granite of any colour and shade 8.2.8.2 Area of				
		slab over 0.50 sqm.				
	8.2Vol. 2, Pg 78					
		Total	44.99	2544.00	SqM	114460.92

S No	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
3.110.	SON REITHO.	Tem or work	Qualitity	Nate	Oint	Amount
19	8.3Vol. 2, Pg 79	Extra for providing full edge moulding to 16mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineerin- Charge.  8.3.2 Granite work.				
		Total	83.95	146.00	RM	12256.70
20	MPPWD, 11.33,	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.  Total		3413.00	SaM	65631.99
		Total	19.23	3413.00	Sqivi	03031.99
21	Non SOR Item, MPPWD, 11.28, Pg 202 (in force from August' 1st 2014)	11.28.1.2 Area of slab over 0.50 sqm				
	201.7	Total	7.50	3720.00	SaM	27900.00
	Joineries				•	
22	10.14.2 Vol. 2, Pg 115	Providing and fixing pressed steel frames for doors, windows & ventilators confirming to IS: 4351manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike- plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-incharge:  10.14.2 Single rebate 100x50mm				
		Total	78.00	334.00	RM	26052.00
23	9.20 Vol. 2, Pg 90	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges.  9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.  Total		1076	SqM	27907.74

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
		111100015				2-22
24		Add 100% for fittings etc.				27907.74
24		Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001				
		(Part B) , using 4mm thick float glass panes for doors,				
		windows and clerestory windows includingEngineer-in-				
	9.10.12 Vol. 2,	charge.				
	Pg 88,89	9.10.1 30 mm thick shutters @Rs. 2006/- per sqm				
	1 6 00,03	5.10.1 30 mm thick shutters @ Rs. 2000/ - per sqm				
		Extra for providing frosted glass panes 4 mm thick instead of				
		ordinary float glass panes 4 mm (Area of opening for				
		glass panes excluding portion inside rebateshall be				
		measured). @Rs. 180/- per sqm				
		Total Rate Rs. 2006+180 = 2186/-				
		Total	2.25	2186	sam	4918.50
		Add 30% for fittings etc.			54	1475.55
		A data days for meanings area				
	Painting					
	ŭ					
25		Painting Steel work with Deluxe Multi Surface Paint to give				
		an even shade. Two or more coat applied @0.90 ltr/10 sqm				
		over an under coat of primer applied @ 0.80 ltr/ 10 sqm of				
	13.48.3 Vol. 2,	approved brand or manufacture				
	Pg 162					
		Total	23.40	65.00	sqm	1521.00
26		Providing and applying 1.5 mm thick (in two coat) white				
		cement based wall putty of best quality, over plastered				
	13.26 Vol. 2, Pg	surface to prepare the surface even and smooth complete.				
	159					
		Quantity as above in Plaster (Internal+ external)	4456.63	82.00	SqM	365443.40
27		Finishing wall with Delux multi surface Paint system for				
21		Interiors and exteriors using primer as per Specification -				
		Two or more coats applied @1.25Ltr/ 10 sqm over &				
	13.48.1 Vol. 2,	including one coat of special primer applied @0.75Ltr/ 10				
	Pg 161	sqm				
	1 8 101	34111				
		Quantity as above in plaster	4223.64	75.00	SqM	316773.06
28	13.45. Vol. 2, Pg	Finishing walls with textured exterior paint of required				
	161	shade :				
		Now work (Two or more costs applied © 2.30 ltm/40 arms)				
		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.	1266 02	125.00	C~NA	170752 52
		Quantity as above in External Plaster	1366.02	125.00	эцічі	170752.52
	Miscellaneous					

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
			,			
29		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 and stainless steel dash fasteners, stainless steel bolts etc., ofrequired 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.)				
	from August' 1st					
	2014)					
		Total	412.5	793.75	kg	327421.88
30	MPPWD, 11.56,	Providing and laying Vitrified tiles in different sizes, with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer in all colours and shade in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). 11.56.2 Size of Tile 600x600x9-I O mm				
	2014)	Total	373.97	1081.00	SaM	404259.19
		Total .	0.0.0.		94	
31	Non SOR Item (Ref - 8.1 , Pg 111 MP PWD in force from August 1st 2014)	Providing and supplying aluminium extruded tubular (See specification in PWD SOR)				
		Total	230.09	359	Kg	82602.66
32	Non SOR Item (Ref - 8.2, Pg 111 MP PWD in force from August 1st 2014)	Designing, fabricating, testing, (See specification in PWD SOR)				
	,	Total	47.50	2674	Sqm	127015.53
		Total	17.50			

S.No.	SOR Item No.	Item of Work	Quantity	Rate	Unit	Amount
33	Non SOR Item	Providing, assembling and supplying vision glass panels (See				
	(Ref - 8.3, Pg	specification in PWD SOR)				
	112 MP PWD in					
	force from					
	August 1st					
	2014)					
		Total	42.75	3635	Sqm	155396.90
2.4	Nan COD Harra					
34	Non SOR Item	Extra for openable side / top hung vision glass panels				
	(Ref - 8.4, Pg					
	112 MP PWD in					
	force from					
	August 1st					
-	2014)	T 1	0.50	2000	6	20505.62
		Total	9.50	3009	Sqm	28585.62
25	N. COD II			•		
35	Non SOR Item	Providing and supplying Spandrel Glass Panels (See				
	(Ref - 8.6, Pg	specification in PWD SOR)				
	112 MP PWD in					
	force from					
	August 1st					
	2014)	[ ] . /400/ C ] ])	4 75			
		façade (10% Spandrel panel)	4.75	2474	C	40226 54
		Total	4.75	21/4	Sqm	10326.54
36		Providing and fixing 12 mm thick frameless toughened glass				
		door shutter of approved brand and manufacture, including				
	Non SOR Item	providing and				
	(Ref - 21.18, Pg	fixing top bottom pivot spring type fixing arrangement and				
	365 MP PWD in	making necessary holes etc. for fixing required door fittings,				
	force from	all complete as per direction of Engineer-incharge (Door				
	August 1st	handle, lock and stopper etc.to be paid separately).				
	2014)					
		Total	4.32	4958.00	RM	21418.56
						9498392.90