ITEM	DESCRIPTION	UNIT	EXECUTED	UNIT
1	**eneral item not applivable as pet the drawing**			
2	**Excavation and Earth Work**			
2.1	Top soil ecxavation to the average depth of 20	M^2	249.64 m^2	
2.2	Bulkk excavation to the average depth to the average depth of 2175mm	M^3	281.79m^3	
2.3	Footion exavation a) isolated footion b) Combined footing	M^3	25.322m^3	
2.4	Tranch excavation to the max septh of 1550 mm reduced level	M^3	24.66m^3	
2.5	Borrow fill selected mater ial to each pit and ur hardcore and compacted for every 200mm thick	M^3	50.868m^3	
2.6	cart away the excavated material and surplus as per the engineer decision	M^3	381.622m^3	
2.7	Hard core 250 mm thick	M^2	339.516m^2	
3	concrete works			
3.1	50mm thick lean concrete c-5, 150k.g cement/M Under:-	M^3		
	a, footing pad	M^2	34.9m^2	
	b, massonarf	M^2	21.85m^2	
	c, Grade beam	M^2	109.8m^2	
	d, basement slab	M^2	81.3m^2	
	e, ground resting on ground	M^2		

ITEM	DESCRIPTION	UNIT	EXECUTED	UNIT
3.2	**Rc in c-25 360 kg cement/m^3 filled in to formworks and cibrated around rod reinforcement steel and form**			
	Work Measured Separately			
	a, footing pad	M^3	12.38m^3	
	b, foundation columns	M^3	1.503m^3	
	c, grade beams basement floor beams	M^3	6.248m^3	
	d, basement shear wall	M^3	12.76m^3	
	e, elevation columns for basement floor plan	M^3	2.61m^3	
	f, basement floor stairs	M^3	3.00m^3	
	g, ground floor beams	M^3	6.482m^3	
	h, basement floor slabs	M^3	1.176m^3	
	I, ground floor slabs	M^3	1.911m^3	
3.3	**From work 20 mm thick swonzigba to**			
	a, footing pad	M^2	18.00M^2	
	b, foundation columns	M^2	2.74M^2	
	c, elevation colums of basement floor plan	M^2	4.36M^2	
	d, basement floor beams	M^2	41.02M^2	
	e, basement floor shear walls	M^2	127.6M^2	
	f, basement floor stairs	M^2	19.464M^2	
	g, ground floor beams	M^2	60.446M^2	
	h, groud floor slab steel reiforcement according according to drawing price includes cutting bending placing includes cutting, bending, placing in position and tying wires	M^2	191.125M^2	

ITEM	DESCRIPTION	UNIT	EXECUTED	UNIT
	a, Dia 8mm deformed bar	k.g	2405.4	
	b, dia 10mm, ditto	k.g	1986.029	
	c, Dia 12mm, ditto	k.g	1766.56	
	d, Dia 14mm, ditto	k..g	1469.5	
	e, Dia 16mm, ditto	k.g	234.66	
4	**Masonary works**			
	a, Which is both sides expoed to view	M^2	2.175	
	b, Which is both sides concealed from view	M^3	24.68	
	Block Work			
4.1	Block work for basement floor with 29v\c.m thic wall	M^2	60.39	
4.2	Block work for ground floor and first floor			
	a, 20 c.m thick HCB wall bended in cement mariar (1:3)			
	15c.m thick HcB wall			

ITEM	Bill of quantity for super structure DESCRIPTION	UNIT	EXECUTED Qty	UNIT Price
3	**Concrete Work**			
3.1	Reinforced concrete in c-25 360kg cement/m3 filles in to form work and vibrated around rod reinforcement steel and form works measured separatel.			
	a, Elevatiom column	M^3	6.264	
	b, suspended floor beams	M^3	17.544	
	c, 0-15mm thick floor slab	M^3	54.377	
	d, stair case	M^3	3.015	
	e, Untel beam	M^3	0.451	
3.2	Provide, cut and fix in position dawn zigba form works to:-			
	a, elevation column			
	b, spffites suspended floor beams.			
	c, suspended floor slabs			
	d, stair case and landing			
	e, Untel beam			
3.3	steel reinforcement according to drawing price bending, placing in position and tying wires.			
	a, Dia 8mm,ditto	kg	1269.4	
	b, Dia 10mm, ditto	kg	1354.56	
	c, Dia 12mm,ditto	kg	1330.884	
	d, Dia 14mm ditto	kg	1693.102	
	e, Dia 16mm, ditto	kg		
4	**Masonary work not applivable**			
5	Root water proofing and damp proofing			
5.1	G-28 sheet metal flashing with development len	ml		

5.2	supply and fix 110mm dicumenter pvc down pipe to wall surface with metal straps.	ml	64.08	

ITEM	Bill of quantity for super structure DESCRIPTION	UNIT	EXECUTED	UNIT
5.3	Apply water proofing for flot roof slab with zigb equivalent material	ml		
6	**Root and wall cladding**			
6.1	Halvey rile roof cover as per manufactures inst	M^2	191.88	
6.2	Gvage 28 metal sheel Ridge	ml	13.043	
7	**Carpentelly and joinery**			
7.1	All structres members shall be well seasoned and free from harn full defects.			
	Each truss shall be fixed with 6mm plain base to concrete beams and metal straps shall be used for stiffining members			
	a, For upper and lower members clc 60cm	M^2	374	
	b, (4x5)cm zigba cilling batten clc 60cm	M^2	325	
	c, 20mm thick wooden cilling it is eequal to total area of root	M^2	210	
7.2	wooden frames and both sides are covered with thick play wood			
	a, D_1 size (900x2100)mm	PSC	8	
	b, D_2 Size (800x2100)mm	PSC	4	
	c, D_3 size (1200 x 2100)mm	PSC	1	
7.3	Supply and Fix flush type Built in cupords of the following type			

	a, Size (1300 x 1200 x 600)mm	PSC		
	b, Size (600 x 2600 x 600)mm	PSC		
	c, Size (2600 x 2700 x 600)mm	PSC		
7.4	Supply and Fix Kichen CABinet with shelves and drawers covered with HNM Thick which formial All acording to drawing and Engineers approveal price including highes locks.			
	a, Cabinet Size (1800 x 900x 600) mm	PSC		
	b, Cabinet Size (2000 x 900x 600) mm	PSC		

ITEM	DESCRIPTION	UNIT	EXECUTED	UNIT
8	**Hard ware - nto applicable**			
0.9	**Structural steel work not appricable**			
10	**Metal works**			
	Windows and Doors are maufactured from LTZ			
	Engineers aperaval and window door schedule lnit			
	price shall include			
	Door stdpper, hinger, best quality lock with handle, and all other necessary accesaries and cost included			
	a, windows	No	13 pcs	
	b, Door	No	6 pcs	
	c, curtain wall	M^2		
	d, 90cm high hand rails for stair case	M		
	e, Ditto but for balconies	M		
	f, For corner protection	M		
11	**Floor Finish**			
	PVC floor finish for service 2mm thick with 48mm thick cement screed beded Ditto but for the basemer	M^2	253.79	

	Ditto but for the 1st floor rooms (bed room)	M^2		
	Ditto for the grond floor rooms (bed room office)			
11.2	Ceramic floor finish a thick cement screed und	M^2	159.93	
11.3	Parceilain floor finish thickness of 4mm with 46mm thick cement screed portland cement	M^2	9039	
11.4	Marble floor finish for stair cases (tread) and ri	M^2	25.62	
	30mm with 20mm thick cement screed portland cement			
11.5	**Plaastering**			
	a) external work plaster incement mortar up to	M^2		
	walls surface exporsed beams and colums in cement sand mortar mix 1:3			

ITEM	**DESCRIPTION**	**UNIT**	**EXECUTED**	**UNIT**
	a) ditto but to external wall partstering	M^2	142.74	
	b) ditto but to intrnal wall plastering	M^2	634.8	
	c) Ditto to partition wall plastering	M^2	4626.85	
11.6	concrete ceilling plastering	M^2	178.54	
11.7	supply and fix ceramic skirting	M^2	118.21	

ITEM	DESCRIPTION	UNIT	EXECUTED	UNIT
12	Painting			
12.1	Quart paint for external plastered surfaces	M^2		
12.2	Apply two coats emuksion paint for internal pla	M^2		
12.3	Ditto but for concrete ceiling and sofit staircase	M^2		
12.4	Ditto but for chipwood ceilling	M^2		
12.5	supply and fix 10cm high ceramic skirting for in	M^2		
12.6	Supply and fix 7cm high prc skirting glued to p	M^2		
13	Glazing costincluded in metal work			

ITEM	DESCRIPTION	UNIT	EXECUTED	UNIT
14	sanitary Installation			
14.1	construct man holes on a sanitary sewer drainage systems as where shown on the drawing in precast coocrete round thick reinforced concrete bottom slab having on area of 600mm x 600mm	M^3	0.897	
14.2	water pipes shall be galranized steel amd ne fixed to slabs, walls,			

	beams or etc with metal straps or similar materials unit price shall include all assistance civil works and necessary instruction and according to shown a) Dia 150mm pipe			
14.3	Supply and fix gate value of approved standared elastic water proofing and hand wheels	ml	34.5	
	a) dia 150mm pipe		11	
14.4	supply and lay internal amd external uprc waste water sewerpe pipe according to where shown on the drawings complete with all necessary fittings			
	a) dia 50mm	ml	65.46	
	b) dia 75mm	ml	9.44	
	c) dia 110mm	ml	1.635	
	d) 150mm	ml	34.65	
14.5	roof water tanks pipe supply and mount roof water tank pipe manufactured from prc at a higher level			

ITEM	DESCRIPTION	UNIT	Quantity	UNIT
	(a) dia 250 mm	Nb	2	
	(b) dia 320mm	Nb	1	
14.6	**WATER SUPPLY PIPES**			
	cold and hot water pipes shall be Gsp, and be fixed to slabs,beams or			

	etc with metal strap or similar material unit price shall include all assistance civil works and necessary fittings such as T, bends, elbows	ml	48.75	
14.7	burried water supply drainage domestic centrifuqal pump is supplied fixed and tested and approved as per the man factores instruction. Price shall include all the necessary values.	M^2	219.24	
14.8	Supply and mount roof water tank manfactured from fiber glass. price include the necssary mounting kit and accessories. capacity $3m^3$	pcs	1	
14.9	Supply and mount Ground water reservior at gr capacity $3m^3$	pcs	1	
14.1	costruct septic(tanks out 7 stor masonary walls reinpolced concrete bottom and top slab reinforced cover. The work shall be carried out in accordance with the stractural and sanitary drawings.	pcs	1	

ITEM	DESCRIPTION	UNIT	Quantity	UNIT
14.11	supply and fix hand wash basins with chrome plated cold and hot water tap made of white vitreous china. size 550 x 400mm	pcs	8	
14.12	Supply and fix precast terazzo squatting pan water closed with high flash cistern in owding all necessary accessories	pcs	8	
14.13	Supply and fix enameled cast Iron bath tub plat	pcs	4	
14.14	supply and fix stain less steel kitcuen sink with double bool complete with plastic small trap, plug chain, holder, drain pipe mixing faucet and other accessories	pcs	4	
14.15	supply and fix stain less steel brass chrome pla double bowl size LAUWDARY SWY	pcs	1	
14.16	Complete with all water proofing, mounting safty, double double gate value and with all nesessary accessories.			
	(a) capacity 30lt	pcs	2	
	(b) capacity 50 lt	pcs	2	
	(c) capacity 80	pcs	3	

ITEM	DESCRIPTION	UNIT	Quantity	UNIT
14.17	FLOOR DRAWS Made of Enameled castiran	No	10	
14.18	supply and fix a Roof drain made of pve	No	3	
14.19	Supply and fix vent pipe in horizontal branch and vertical stacks made and figid plastic pipe (pve) of approved standards			
	(a) dia 50	m1	24.3	
	(b) dia 75	m1	10.74	
	(c) dia 110	m1	15.83	
14.2	vent caps made of pve complete with all accpsories			
	(a) dia 50mm	No	3	

ITEM	DESCRIPTION	UNIT	Quantity	UNIT
15	Feeder power cables			
	pve shuttered puc insulated power cable type semens			
15.1	Nny 0.6A/aku			
	and cost include pve conduit and cable try			
	4 x16 mm^2 from EEPLO up to MDB			
	5x6mm^2 from MDB up to SDB-GF			
	5 x 6mm^2 from MDB up to SDB-FF			
15.2	KWH-meter board			
	meter board porthree phase and meter made of KHs			
	frame and backlet			
	board to be fixed to wall as EEPCO			
15.3	Distribution board			
	Floor mounted distribution board (MDB) in sheet steel			
	enclouser with			
	laber door complex			
	wich phase neurral.			
	main power SDB-GF 76A/3p	pcs	1 pcs	
	main power SDB-FF 75/3p	pcs	1 pcs	

	Solar heater/root 75A/3p	pcs	1 pcs	
15.4	Light points			
	Flash mounted light point fed through pve insulated couductor of 2*2.5 inside pve conduit including junction box with covers	pcs	12	

ITEM	DESCRIPTION	UNIT	QUANTITY	RAITING
	SOCKET out let			
	Flash mounted 10 A sockt out let point with wire 3x25 mm^2 fixed 300mm above floor finish level.	Pcs	10	
	Ditto but 20A stone with 3x4mm^2 wire fixed 1200mm above floor finish	Pcs	1	
	Ditto but hood fan 10A/r with 2x2.5mm^2 fixed 1600mm above floor finish	Pcs	2	
	Ditto but bell call BA/P with 2x2.5mm^2 fixed 1800mm above floor finish			
	Ditto but external lighting 10A/P with 2x2.5mm^2 fixed 1500mm above floor finish	Pcs	2	
	Ditto but external lighting socket out let with 16A/iP with 3x2.5mm^2 fixed 10mm above floor finish			
	Dttto but jacuti 20A/Ip with 3x4mm^2 fixed with above the floor finish	Pcs	3	

	Recessed consists or one lamp with 50 watt and and Hauegen lamp type with all uminium optic with chorno pl rating laminar and IP rating of 20 and controlled by 220V 50 Hz	Pcs	36	
	Surface chainders with consists of three lamp with 15 watt and energy saving lamp type E14 base by aluminium optic chromo plased luminate with 20 LP rabing of controlled by 220V	Pcs	3	
	Ditto but wall laminar or item 11 with conusists of one lamp and 15 watt	Pcs	9	
	Surface ceilling consists of 2 lamp with 38 watt and florscent lamp type matta a miniral optic and steel metal laminar mater coutrolled by 220 Volts	Pcs	2	
	Ditto but cabinet luminar/ cup board in one lamp and 18 watt and prismatic optic pory carbonate laminar material	Pcs	8	
	Ditto but is 50 watt consists hallogen type lamp and 43 1p rating light fitting and lamp mounted	Pcs	4	

ITEM	DESCRIPTION	UNIT	QUANTITY	RAITING
	Surface chandte consists of 8 lamps with 15 wattage energy saving E14 base lamp with globe type and mamirar with chromo plated and have 20 lp rating controlled by 220V 50 Hz	Pcs	3	
	Ditto to the above but wall lamirar of item one with 2 lamps	Pcs	8	
	Ditto but surface ceilling wih one lamp and metal lamirar	Pcs	26	
	Ditto but surface ceilling wih one lamp 23 watt and 43 lp rating	Pcs	4	

	Ditto but extrnal wall with 26 wattage and 54 Ip rating	Pcs	6	
	Ditto but surface ceilling 50 wattage and 43 Ip rating	Pcs	4	
	Ditto but surface wall mirror litring with surface and 18 wattage and florscent type lamp with prismatic optic and sheet metal luminare with 44 Ip rating	Pcs	2	
	Ditto but 5 lamp	Pcs	1	
	Ditto but post top and base consists 26 lamp watt energy saving and type E 27 and lamp type with 55 rating 0107 Grounding Detail			
15.07	**Graunding Detail** Cost including conduit and execavation consist of 1x16 mm^2 base copper with $\varphi 12.5$ copper rod 40x40x405 cm^2 inspetin pit with 2300mm depth of excavation			
15.08	**TV riser diagram** Consisting with pp φ 29 mm conduit and distributed from Gandish up to roof autenna dish			
15.09	**Telephone Riser Diagram** It consists cost including conduits and wire taken from Tele by pp 25 mm as for the drawing reterene			

ITEM	DESCRIPTION	UNIT	QUANTITY	RAITING
15.1	**Guretion terminals**			
	One ways ingre pole switch of 6A fix to above 1800mm above floor finish	Pcs	S	

	Two way single circuit switch with 6A flash mounted	Pcs	5	
	Double pole switch which consists of 6A flash mounted	Pcs	5	
	Triple two way switch consisting 6A flash mounted	Pcs	2	
	Double pole switch which consists of 6A flash mounted	Pcs	7	
	Intermidate switch consists 6A flash mounted	Pcs	4	

TOTAL

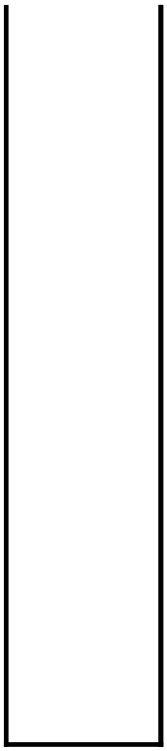
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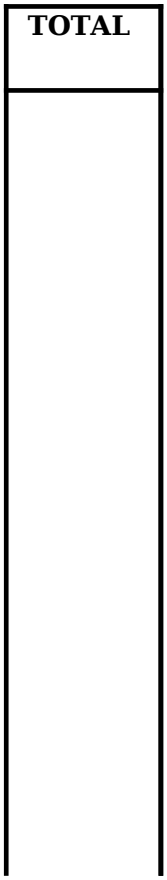
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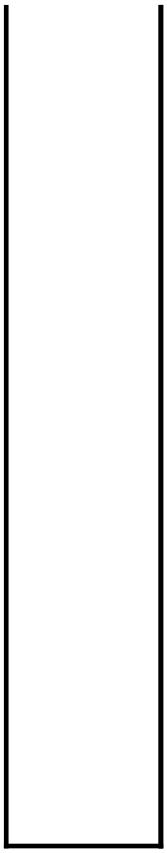
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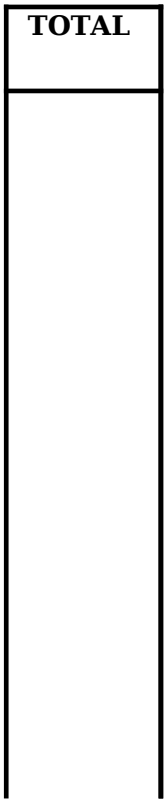
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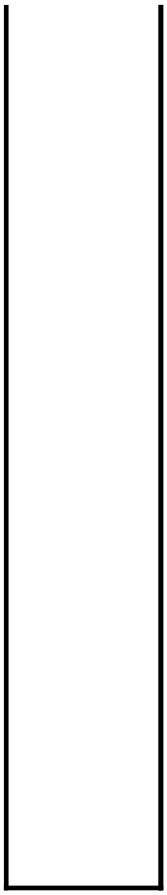
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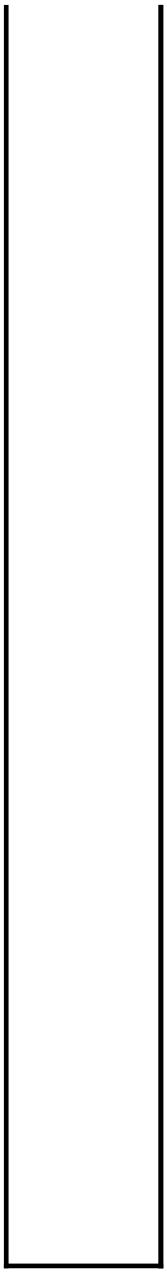

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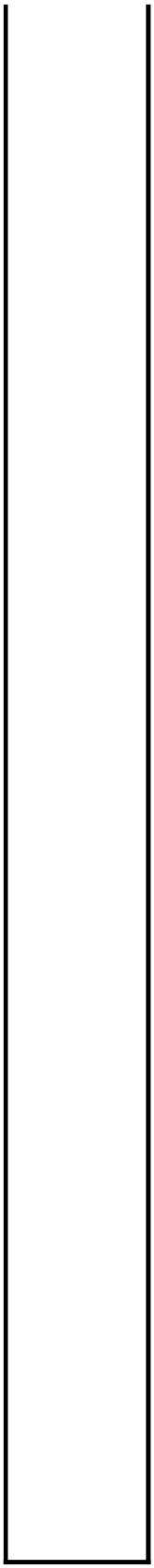

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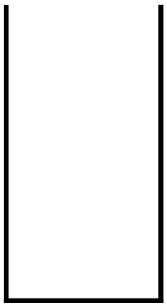
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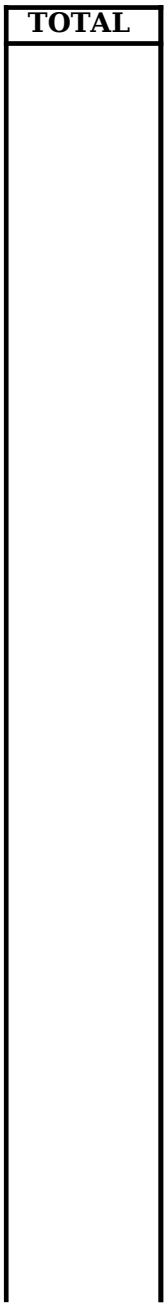


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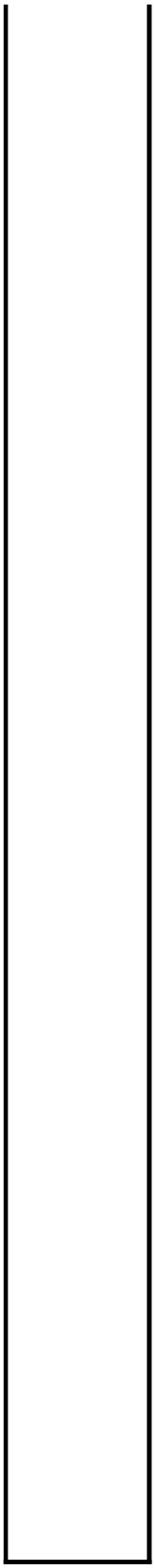

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TIM	DIM	SQUA	DESCRIPTION	TIM	DIM	SQUA
			2, Excavation and Earth Work			
			2.1 Top soil excavation to depth of 200mm			
1	15.8					
	15.8					11.442 m
		249.6	m^2			
			2.2/ Bulk excavation to avarage depth 2180 mm		15.7	
					8.1	
	15.8				0.4	
	8.2					50.87
	2.18					
		281.8	m^3			62.31
			2.3 Pit excavation for column footings with 350mm working space each side			
6.0	2.1		For a/ F_1 (1400x1400)			
	2.1					
	1.75					
		7.7	m^3			381.622m^3
			b/ ditto but for			
2.0	1.9		F_2 (1200x1200)			
	1.9					
	1.75					
		6.32	m^3			24.38m^3
			c/ ditto but for			
	3.8		combined footing			
	1.7		CF1 (3100x1000)			
	1.75					13.78m^2

		11.31	m^2			
			2.4/ Trench execavation to max			
	22.5		depth of 1550mm and 500mm wide			
	0.5		a/ For axise A' and -1		3.2	
	1.55				5.3	
		17.44	m^3			16.96m2
	22.2		b/ ditto but for axis 3 and E to			
	0.5		depth 550mm			
	0.65					
		7.215	m^3		4.0	
			Total trench, and pit excavation		5.3	
			and excavation281.79†7.7†6.317			21.2m2
			11.305†17.4 †7.21 = 331.722 m3			
		331.7m^3				
TIM	**DIM**	**SQUA**	**DESCRIPTION**	**TIM**	**DIM**	**SQUA**
			d/ Ditto but for panel bounded			
			by axis A',C and 2,3			
			7400 x 2294mm			
	7.4			7	1.5	
	2.29				1.5	
		16.98m^2				15.75m^2
			F/ Ditto but for panel bounded	3	1.3	
			by axis C',D and 2,3		1.3	
			3200 x 2294mm			5.07m^2
	3.2			4	3.2	
	2.29				1.1	

		$7.34m^2$	
			G/ Ditto but for panel bounded by axis D,E and 2,3 4000 x 2294mm
	4.0		
	2.29		
		$9.18m^2$	
			H/ Ditto but for panel bounded by axis A,C and 3,4
		29.7m2	$A = \frac{II\,(6149)^2}{4} = 29.7\ m^2$
		139.516	Total hard core work

		$14.08m^2$	
1	22.6		
	0.5		
		$11.3m^2$	
1	43.69		
	0.5		
		$21.85m^3$	
1	4.6		
	5.3		
		$24.38m^2$	
1	2.6		
	5.3		
		$13.78m^2$	
1	3.2		
	5.3		
		$16.96m^2$	
1	4		
	5.3		

						21.2m²
TIM	**DIM**	**SQUA**	**DESCRIPTION**	**TIM**	**DIM**	**SQUA**
1	7.4		d-5) ditto but for panel axis			
	2.294		A' C & & 2 3	4	3.1	
		16.98m²	(7400 x 2294)mm		1	
					0.517	
						6.41m³
1	3.2		d-6) ditto but for panel axis			
	2.294		CD & & 2 3			
		7.34m²	(3200 x 2294)mm			
				3	0.2	
	4.00		d-7) ditto but for panel axis		0.3	
	2.29		DE & 2 3		2.275	
		9.176m²	(4000x 2294)mm			0.41m³
			e)slab lean concrete for ground resting on the ground			
			e-1)for pnal bounded by axis C E & 3 4(7100X7800	1	0.2	
	7.1				0.3	
1	7.8				1.375	
		55.8m2				0.08m³
	2.275		e-2) ditto but for axis	5	0.2	
			A C & circls lar part radius		0.3	
1			r= 5.7m		1.1375	
		25.5m²	A= ∏x5.7² = 25.5m²			0.34m³
				7	0.2	
					0.3	
			Total Area of lean concerte		1.1375	

		149.35m²					0.48m³
			3.2 Rc in c-25 360 kg cement\m³				
			a) concrete work c-25 for		2	0.2	
			foting pads			0.3	
			a-1) for footing f1			1.1375	
7	1.4		1400 x 1400 mm				0.1365m³
	1.4		with thickeness of 350 mm				
	0.35						1.503m³
		4.802m³					
			a-2 sittobut for fooling f2				
			1200 x 1200mm				
3	1.2		with thickeness of 270 mm		2	0.2	
	1.2					0.4	
	0.77					14.35	
		1.166m³					2.296m³
Tim	**DIM**	**SQUA**	**DESCRIPTION**		**Tim**	**DIM**	**SQUA**
1	0.4		C-2) ditto but for BB - 2 on AXIS		5	0.2	
	7.65		A'(1200 x 400)			0.3	
		3.06m³	L= 7.65m			2.9	
							0.87m³
1	0.2		C-3) ditto but for		7	0.2	
	0.4		BB-3 on axis B			0.3	
	5.2		(200 x400)			2.9	
		0.416m³	L= 5.2				1.218m³
					2	0.2	
	0.2		C-4) ditto but for			0.3	

3	0.4		BB-4 on axis		2.9	
	7.4		C DE (200 X400)			0.348m³
		1.776m³	L= 7.4m			
						#VALUE!
1	0.2		C-5) ditto but for			
	0.4		BB-1A on axis 2			
	14.4		(200 X400)mm			
		1.148m³	L= 14.35			
			Total volumeof cocerete			
		6.248m3	for basement beans	20	0.02	
			d) Cncrete Work for basement		1.25	
			for sheas wall on axis			0.56m²
	0.2					
1	2.9		3 & E			
	22		thickeness 200 mm	2	3.35	
		12.76m³	length = 14.35+ 7.65		1.25	
			= 22 M		0.22	
			h = 2.9 m			1.84m²
			e)concrete work for elevations	1	2.51	
			columns of the basment		1.6	
1	0.2		floor plan		0.15	
	0.3					0.6m³
	2.9		e-1) for columns c-3			
		0.174m³				
			(200 x300)mm			#VALUE!
			h= 2.9			

Tim	DIM	SQUA	DESCRIPTION		Tim	DIM	SQUA
1	0.2		**G/ Conceret work**		1	4.6	
	0.3		**For Graund Floor Beams**			5.3	
	4.24		G-1/GF B-1 on axis (1200 x 500mm) L=4.24			0.01	
		0.254m^2					0.2438m^3
			G-2/ Ditto but for GFB		1	2.6	
1	0.2		GFB-1A on Axis 1			5.3	
	0.4		(200 x 400mm)			0.01	
	7.3		L= 7.3m				0.1378m^3
		0.584m3					
			G-3/ Ditto but for		1	3.2	
1	0.2		GFB-2 on axis 2			5.3	
	0.4		(200x400mm)			0.01	
	14.35		L= 14.35m				0.1696m^3
		1.148m3					
1	0.2		G-4/ Ditto but for		1	0.4	
	0.4		GFB-3 on axis 3			5.3	
	14.35		(200x400mm) L=14.35			0.01	0.212m3
		1.148m2			1	7.4	
1	0.2		G-5/ Ditto but for			2.29	
	0.4		GFB-4 on axis 4'			0.01	
	7.65		(200x400mm)				0.1698m3
		0.612	L= 7.65m		1	3.2	
1	0.2		G-6/ Ditto but for			2.29	
	0.4		GFB-5 on axis A'			0.01	
	6.65		(200x400mm) L=6.65				0.0734m3
		0.532m^2			1	7.4	
2	0.2		G-7/ Ditto but for			2.29	
	0.4		GFB-6 on axis B&D			0.01	

	6.5		(200x400mm) L=6.5				0.1698m3
		1.04m³					
1	0.2		G-8/ Ditto but for				1.176m3
	0.4		GFB-7 on axis C				
	14.55		(200x400mm) L=14.55				
		1.164m³			1	7.1	
			Total Volume of concrete for			7.8	
		6.482m3	Ground floor beam			0.01	
							0.5538m³
TIM	**DIM**	**SQUA**	**DESCRIPTION**		**TIM**	**DIM**	**SQUA**
1	25.5		I-2/Ditto but for panel bounded by axis		1	3.4	
	0.01		A C & 3 4' cercular part with radius			2.3	
		0.255m²	r= 5.7m			0.1	
			A= nx 5.7² = 25.5m²				0.782m³
1	4.6		I-3/Ditto but for panel bounded by axis		1	4.2	
	5.3		A' B & 3 4' 4600 x 5300mm			2.3	
	0.01					0.1	
		0.2438					0.966m³
1	2.6						
	5.3		I-4/Ditto but for panel bounded by axis				1.911m³
	0.1		B C & 1 2 2600 x 5300mm				
		0.1378m3					
1	3.2		I-5/Ditto but for panel bounded by axis				
	5.3		C D & 1 2 3200 x 5300mm		7	5.6	
	0.1					0.35	

		1.696				13.72m
1	4		I-6/Ditto but for panel bounded by axis	3	4.8	
	5.3		D E & 1 2 4000 x 5300mm		0.27	
	0.1					3.888
		2.12		4	4.1	
1	4		I-7/Ditto but for panel bounded by axis		0.517	
	5.3		D E & 1 2 4000 x 5300mm			8.4788
	0.1					
		2.12				18.080
1	4.55		I-8/Ditto but for panel bounded by axis			
	2.3		A'B & 2 3 4550 x 2300mm	3	0.1	
	0.1				2.275	
		1.0465				0.6825
1	2.6		I-9/Ditto but for panel bounded by axis			
	2.3		B C & 2 3 600 x 2300mm	1	0.1	
	0.1				1.375	
		0.598				0.1375
Tim	**DIM**	**SQUA**	**DESCRIPTION**	**Tim**	**DIM**	**SQUA**
5	0.1		b-3/ Ditto but Colomn C_2			
	1.375		C-4 (200x300mm)			
		0.6875	h= 1375 mm	2	14.4	
			P=2(200+ 300)=1000mm		0.650	
7	0.1		b-4/ Ditto but Colomn C_2			18.655
	1.375		C-5 (200x300mm) h=1375			
		0.9625	P=2(200+ 300)=1000mm	1	7.7	
2	0.1		b-5/ Ditto but Colomn C_2		0.650	
	1.38		C-6 (200x300mm) h=1375			4.9725

		0.275	P=2(200+ 300)=1000mm			
		2.74	Total Form work			
			For foundation colomn			
			C/Form Work for	1	5.2	
			elevation colomns of the basement		0.5	
1	0.1		**floor plan**			2.6
	2.9	0.29	C-1/ For colomn C3 200x300mm h=2.9			
			p=2(200+300)			
5	0.1		C-2) ditto but for C-4			
	2.9	1.46				
7	0.1		C-3 (200x300mm)	3	7.4	
	2.90		h= 2.9m		0.5	
		2.03	P=2(200+ 300)=1000mm			11.1
2	0.1		C-4/ Ditto but for			
	2.90		C-6(200x300mm)			
		0.58	h= 2.9m	1	7.4	
			P=2(200+ 300)=1000mm		0.5	
						3.7
		4.36	Total form work for elevation			
			colomn of basement plan			41.02
Tim	**DIM**	**SQUA**	**DESCRIPTION**	**Tim**	**DIM**	**SQUA**
			E/ Form Work for basement shear	1	14.4	
			wall on axis B & E with thinckess		0.7	

			200mm and total length of 22m			10.045
1	2.2		development length on the two sides			
	5.8		2.9 +2.9			
		12.76	5.8m			
			F/Form work for baseement stair			
			F-1/ For triangular part of stair	1	14.4	
22	1.3		Riser = 150mm		0.7	
	0.2		Length = 1.25 mm			10.045
		4.125				
			F-2/ For rectangular part of the stair			
2	3.4		development length			
	1.7		2(0.22 + 1.25 = 1.69m)	1	7.6	
		11.323	inclues length		0.9	
			L= 3.35m			6.46
1	2.51		F-3/ For landing part of the stair			
	1.6					
		4.016				
			G/ Form work for graond floor beams	1	6.7	
			G-1/ For GFB-1 on axis 1/200 x 300/		0.9	
			L= 4.24m			5.6525
			development length on			
1	4.24		0.3 + 0.2 + 0.15			
	0.7		0.65m			
		2.756		2	6.5	
			G-2/ Ditto for GFB- 1A on axis 1		0.7	
			/200 x 300mm/			9.1
1	7.30		L=7.3 m			
	0.85		development length on			
		6.205	0.3 + 0.2 + 0.15 0.65m 0.65			

Tim	DIM	SQUA	DESCRIPTION	Tim	DIM	SQUA
			G-8/ Ditto but for GFB-7 on axis	1	4.6	
			B&D (200 x 400)		2.3	
1	14.6		L= 14.55			10.465
	0.7		development length on two sides	1	2.6	
		10.185	0.2 + 0.25+0.25		2.3	
			0.7 m			5.98
		60.44	Total Form work for Grad floor beam			
			H/ Form works For ground floor slabs	1	3.4	
1	7.1		H-1/ For panel bounded by axis		2.3	
	7.80		C E & 3 4'			7.82
		55.38				
			H-2/ Ditto but for panel bounded by	1	4.2	
			axis AC & 3 4'		2.3	
			Circular part with radius			9.66
		25.5m	r= 5.7m			
			$\frac{A= II \times 5.7^2}{4}$			191.125
			$25.5m^2$			
1	4.6		H-3/ Ditto but for panel bounded by			
	5.3		axis A'B & 1 2			
		24.38				
			H-4/ Ditto but for panel bounded by			
1	2.6		axis B C & 1 2			
	5.3					
		13.78				
			H-5/ Ditto but for panel bounded by			
1	3.2		axis C D & 1 2			

	5.3		3200 x 5300mm			
		16.96				
1	4.0		H-6/ Ditto but for panel bounded by			
	5.3		axis D E & 1 2			
		21.2	4000 x 5300mm			
Item	**Dim**	**Squar**	**Description**	**Item**	**Dim**	**Squar**
			5. Roof water proofing			
			ing and DaMP			
			proof two			
			5.1 Guage 2 metal			
			sheet wall flashing		15.8	
			goping having a		8.2	
			width of 200 mm			129.56
			5.2 Supply and fix pvc			
			down pipe		7.6	
			of size 110mm diameter		8.2	
			fixed to wall with metal			62.32
4	9.61		straps 9.3m			
			Development length	1	13.043	
		38.44m	= 9.3m + 0.3lm=9.6lm			13.043
			ditto as above but			

	4	6.41m					191.88 m^2
			25.64m	Total development length =6.5m +0.3m 6.41m			
			64.08m	Total length of pvc down pipe=64.08m			
			25.12	**5.3 supply water proofwc for flat** slab with pipe or other equiivation material			
Item	**Dim**	**Squar**		**Description**	**Item**	**Dim**	**Squar**
				7 CARPEN TERY And Soinery			
				7.1 All structural memb			

			members should well seasoned and free from harmful defects each truss shall be fixed with 6mm plain bary to concrete beams and metal stronge shall be used for stiffeing members a/ For upper and lower membes C/C 1300mm For Truss type A $X = \sqrt{(4398)^2 + (2000)^2}$ X= 4837 No q truss 4352 1300 3.3 ≈ 4				—
Item	**Dim**	**Squar**	**Description**		**Item**	**Dim**	**Squar**
			Total length of the truss 4398 + 4837 9235mm				

Item	Dim	Squar	Description		Item	Dim	Squar
			For Truss **Type TT -3**				
			$X = \sqrt{(2000)^2 + (4396)^2}$				
			X= 4829.6mm				
			Total No. of Truss 8792 1300 6.76 ≈ 7		2	55.4	110.8
			In order to satisfy the correct No of the truss take the avearge 7/2 = 3.5				
			Total length 3.5 (4829 + 4376)	32.3			

1	9.233						
		9.233					
		374m	Total length of the upper and lower chord				
			B/ 4 x5 cm zigba cilling batten C/C 60 cm				
			For Batten 1				
			No of ceilling batten = 16364 / 600				
			28				3pcs
							1pcs
			In order to adjust take 90% of total number				
			9x 28 = *25.2*				
							1pcs
			Flush type Built in cupords of the folling type				
							1pcs
			a) size (1300 x 1200 x 600) mm				
			b) size (600 x 2600				

			x 600) mm c) size (2600 x 2700 x 600) mm				
Item	**Dim**	**Squar**	**Description**		**Item**	**Dim**	**Squar**
			Ditto but for D2				
		7pcs	(2800 x 3000) mm				
		1pcs	Ditto but for		4	4.5	
			D3(2400 x 3000)mm			3	
							54.00
		1pcs	Ditto but for D4				
			(1100 x 3000) mm				
			Total length		1	2.4	
			8.796 x 11.7			6.3	
		103ml	103ml				15.12
			Total length of zigba cilling Batter				
			c/c 60				
		326ml	c-20mm thick wooder celling		22	0.9	
			it is equal to tatol area of				19.8
			Roof				
		210m2	A= (6.364 x 8.776)+				
			(7.6 x 8.796)				

							4 pcs
			7.2/ wood Formes and both				
			sides are covered				
			with best quality				
			4mm thick				
			play wood				
			a/ D, sixe				
			/900 x 2100/mm				
		8 psc					
			b/ D- 2 sixe				
			/800 x 2100/mm				
		4 psc					
			b/ D- 3 sixe				
			/1200 x 2100/mm				
Item	**Dim**	**Squar**	**Description**		**Item**	**Dim**	**Squar**
			11. floor Finish				
			11.1 PVC floor finish with thickness of		1	7.45	
			2mm inclding 48 cement screed bedded			3.9	
1	2.8		for the services				29.055
	2.8		a/ Maid Room				
		7.84			1	8.85	
						7.45	
			b/ Ditto but for the basement Guest				65.9325
2	3.43		bed room at the service				

	2.8						
		19.208					
			c/ Ditto but for the first floor master				
1	7.84		bed room				
	6.146						
		48.18464					
				1	7.8		
			d/ Ditto but for the walking closet		4.259		
1	4.35					33.2202	
	3.5						
		15.225					
			e/ Ditto but bed room 1 on axis				
			C, D and 1, 2			279.41534	
1	5.85						
	3.35						
		19.5975					
			f/ Ditto but bed room 2 on axis				
			between A, B & 1,2				
1	5.35						
	4.65						
		24.8775		1	4		
					2.801		
						11.204	

Item	Dim	Squar	Description		Item	Dim	Squar
			b/ Ditto but for toilet room		1	4.65	
1	2.99					2.3	
	1.465						10.695
		4.38035	c/ Ditto but for shawer room				
2	1.837				1	2.3	
	1.5					2.04	
		5.511					4.692
			d/ Ditto but for basement main				
			floor manual laundary			7.8	
1	4.1				1	3.5	
	3.6						27.3
		14.76					
			e/ Ditto but for laundary (main)				
1	3.5						154.93
	1.16						
		4.06	f/ Ditto but for verenda				
1	6.2						
	3.55						
		22.01	g/ Ditto but for common room				
1	4.2						
	2.456					5.86	
		10.3152	h/ Ditto but for store room		1	3.3	
							19.338
1	5.25						

	2.55					
		13.3875	i/ Ditto but for first floor master both		5.86	
			room	1	3.3	
						19.338
1	5.85					
	1.65					
		9.6525	j/ Ditto but for both room (1) on axis			
			C,D and 1,2			
Item	**Dim**	**Squar**	**Description**	**Item**	**Dim**	**Squar**
			11. Plastering			
				1	2.5	
			a/ Extenal wall plaster		33	
			with cement, sand ration			82.5
			(1:3) mortar with 3 coat in different			
			thickness	1	4.7	
1	4.35		B= L front + L rear + Lleft + L right		3.3	
	5					15.51
		21.75	For rear side			
				1	2.15	
			For left side		3.3	
1	5.3					7.095
	4.35					
		23.055	For right side	1	15.8	
					3.3	

Item	Dim	Squar	Description	Item	Dim	Squar
1	8.2		EL = 80.52m²			52.14
	4.35					
		35.67				
		80.475	b/ ditto but for ground floor wall for front side			
1	3.257			1	40	
	33				33	
		107.481	for rear side			1320
1	5.1			1	3.1	
	3.3				3.3	
		16.83	for left side			10.23
1	3.3			1	38.11	
	3.3				3.3	
		10.89	for right side			125.763
1	15.8					634.8
	3.3					
		52.14	for left side			
				1	14.953	
		187.341	Total Length of plastered and painted		3.3	
			HCB wall			49.34

			b/ ditto but for ground floor				
			EL =33.844 m				
6	33.8		h= 33.3		1	46	
	3.3						46
		669.24	c/ ditto but for the first floor				
			EL =52.76 m				
			h= 33.3				118.21
6	52.76						
	3.3						
		1044.648	Total partition wall plastering of				
			super structure				
			A_T - A (door + Window)				
			171.38 m2 - (43.5) m^2 /refre Joinery				
			work /				
			Concrete ceiling plastering of first floor		2	33.56	
			EL= 15.8 m				67.12
			EW= 11.3m				
		1626.85					
1	15.8						
	11.3		b/ Ditto but for flat roof		2	47.1	
		178.54	EL= 8.2 m				94.2
			EW= 11.3m				
1	8.2						
	9.3		b/ Ditto but for flat roof				
		76.26	EL= 8.2 m				

			EW= 9.3S			
			Skirting			
1	32.9		a/ textured ceramic skirting 10 cm	1	57.7	
		32.9	high for ground floor wall internal			57.7
			El= Fron + Rear + Right +Left			
			3.6 +15.8 +8 5.5m			
			32.9			
			by excluding the opeings /doors/			
			and curtain wall			
Item	**Dim**	**Squar**	**Description**	**Item**	**Dim**	**Squar**
			12/ Painting			
			12.1/ Apply Quariz paing for external			
			wall plastered surfaces for ground			
			floor Area of wall on four sides			
			El= Front + left + rear+ right			
			3.6 + 15.8 +8+5.5			
		3.29m	L = 32.9m			
			Eoppening Areas			
			Door +Window			
			1.3 x2.5 + 2.9 x1.3			
			7.02m^2			
			h= 3.3m			
1	30.8					

	3.3		A wall = 32.9m x 3.3 m			29.57	
		101.64	108.59			3.3	
							97.581
			Apaint = 108.59 -7.02				
			101.55m²				
			Ditto but for 1st floor				
			A wall = 32.9m x 3.3 m			38.11	
			A= 389.1 m²			3.3	
1	1.47						125.763
	3.3		Eaopening = 10.53 m²				
		4.851	Apaint = 378.47m²				
			Total area of external wall				
			painting /Quarit/				
		480m2				29.97	
						3.3	
							98.901
Item	**Dim**	**Squar**	**Description**		**Item**	**Dim**	**Squar**
			Ditto but for the 1st floor				

			El= 52.76m			
2	44.4		h= 3.3m			
	3.3		At = 174.108m²			
		293.04	E Aopp= 13.77 m²			
			(door)			34.5gm
			Anet = 174.108			
			2(13.77)			
		714.76	146.55m²			
						11Pcs
			Total internal & partion wall painting			
			Ditto but for concrete ceilling including	1	65.46	
			the stain cases sofit for ground			
			floor celling			65.46
			AT= A1 + A2 + A3			
			AT= 40.7 + 124 +8 +27.3			
			AT= 192.85 m²			9.44
			Ditto but for the basement floor ceilling			
						1.35
			AT= A1 + A2			
			Ditto but for 1st floor chipwood ceilling			34.65
			having area of			
			AT= A1 + A2 + A3			
			AT= 40.7 + 124 +8			
		192.85	AT= 192.85 m²			

			Total area of ceilling emulistre paint				
		551.1					
			14. SANITARY INSTALLTION				
			14.1 Manbale for water supply, waste				
9	0.6		water and storm water made of				2pcs
	0.6		precast concrete having an area of				
	0.277		500 x 600m				
		0.89748					1pcs
							1.94
Item	**Dim**	**Squar**	**Description**		**Item**	**Dim**	**Squar**
			14.6.b/ PPR pipe for cold wate supply				
			for intrnal use Pn-20 of diameter 20 mm				
							2pcs
		25.68	L= 25.68m				
1	10.8						2pcs
	20.3		14.7 Burried water supply drainage				
		219.24	pump laying having a diameter				3pcs
			of 45mm				
							10pcs
		1pcs	14.8 Supply and mount an elevated				
			water tank manufacatured from				3 pcs
			fiber glass having capacity of 1.5m^3				
		1pcs	14.9 Supply and mount 3m3 capacity				

			roto or ehivaent water stonge at ground level having a diameter of 94mm					24.3m
		1pcs	14.10 Construct spetictank out of stone masonary wans, reinformed concrete bottom & top slabs, reinforced & conc erte man hole covers with 10m^3 capacity					10.74m 15.83m
		8pcs	14.11 Hand wash bain made of write vitreous china, size of 550 x400mm					3pcs
		8pcs	14.12 precast terrazzo sfuatting pan we unit with high level flash cistern					
		4pcs	14.13 Both tub made at enameled cast iron plate, size 1800 x 800 mm					
		4pcs	14.14 kitchen sink made of stainless stee brass chrome plate trap with double bow size 1400 x 500m					
		1pcs	14.15 Laundary sink made of stainless steel, brass chmme plate trap with double bowl, size 1600 x 450 mm					

Item	Dim	Squar	Description	Item	Dim	Squar
			4 massanary work			
			a) which is both sides			
			exposed to view			
	4.35				**5**	
	0.5				**3.3**	
		2.175				**16.5**
			A= 12 x 2 (900 x900) + 2 (4.35			
			x 500)			
2	23.5					
	0.5		b) masonary side concealed		2.9	
	1.5		from view for axis 4		3.3	
		35.25				**9.57**
			for axis- 3			
1	23.5					
	0.5				2.8	
	0.6				3.3	
		7.05				**9.24**
		44.475	Total conceled from view		7.6	
					3.3	
						25.08

						60.39
Item	**Dim**	**Squar**	**Description**	**Item**	**Dim**	**Squar**
			4.2 Bock work for			
			GROUND FLOOR	**1**	**3.5**	
					2.9	
1	**46.6**		a) wih HCB wall and thikness			**10.15**
	2.9		of 0.2 excluding the area of			
		135.14	door and window			
			EL= 46.6m	**1**	**2.2**	
			h= 2.9m		**1.2**	
						2.64
			diito but for			
			first floor			
1	**46.6**			**1**	**2.8**	
	2.9				**1.5**	
		135.14	for ground floor			**4.2**
			out window			

Tim	Dim	Squar	Description	Tim	Dim	Squar
1	26.8			1	4	
	2.9		EL=26.8m		2.9	
		77.7	h= 2.9m			11.6
			diito but for	1	1	
			first floor		2.1	
						2.1
			EL=40.70m			
			h= 2.9m			
				1	1.2	
			Total HCB work		2.1	
1	2.5					2.52
	1.5		window for			
		3.8	ground floor			
			kitchen			
			SUPPER STRUCTURE			
			3. Concrete Works of			
			3.1 Ground Floor (C-25)	5	0.2	
3	0.3		a/Concrete work for ground		0.3	
	0.2		floor columns for		2.9	
	2.9		**C-1 (0.2 x 0.3)**			0.870
		0.58	m^3			
			Ditto as above but for			
			C-3 (0.2 x 0.3)	7	0.2	

1	0.2					0.3	
	0.3					2.9	
	2.9						1.218
		0.174	m³				
			Ditto as above but for		2	0.2	
5	0.2		C-4 (0.2 x 0.3)			0.3	
	0.3					2.9	
	2.9						0.348
		0.870	m³				
			Ditto as above but for				
7	0.2		C-5 (0.2 x 0.3)				6.322
	0.3						
	2.9						
		1.218	m³		1	0.2	
			Ditto as above but for			0.3	
			C-6 (0.2 x 0.3)			4.6	
2	0.2						0.276
	0.3						
	2.9						
		0.348	m³		1	0.2	
			Concrete work for first			0.4	
			floor colons			7.9	
3	0.2		C-1 (0.2 x 0.3)				0.474
	0.3						
	2.9						
		0.522	m³		1	0.2	
1	0.2		Ditto as above but for			0.4	
	0.3		C-3 (0.2 x 0.3)			15.4	
	2.9						1.232
		0.174	m³				

Item	Dim	Squar	Description		Item	Dim	Squar
			ditoo as above om FFB_3 on axis 3				
			(0.2*0.4) L=7.2m				
	1	**0.2**			**1**	**0.2**	
		0.4				**0.3**	
		7.2				**15.7**	
		0.576	m³				**0.942**
1			**Ditto as above for FFB-5**				
			on axis A' (0.2 x 0.4)				
	0.2		**L=78m**		**1**	**0.2**	
	0.4					**0.3**	
	7.8					**8.2**	
		0.624	m³				**0.492**
1			**Ditto as above for FFB-6**				
			on axis A' (0.2 x 0.4)				
	0.2		**L=66m**		**1**	**0.2**	
	0.4					**0.3**	
	6.6					**7.2**	
		0.528	m³				**0.432**
1			**Ditto as above for FFB-7**				
			on axis A' (0.2 x 0.4)				
	0.2		**L=14.6m**		**1**	**0.2**	
	0.4					**0.3**	
	14.6					**15.5**	
		1.168	m³				**0.930**

			Ditto as above for FFB-8 and FFB-9				
			on axis A' (0.2 x 0.4)				
2	**0.2**		**L=14.9m**		**1**	**0.2**	
	0.4					**0.3**	
	14.9					**15.3**	
		2.384	m³				**0.918**
			Concrete work for top tie				
1	**0.2**		**beam C-25**				
	0.3		**For TTB-1 on Axis 1**		**1**	**0.2**	
	15.7		**(0.2 x 0.3) L= 15.7m**			**0.4**	
		0.942	m³			**15.3**	
			Ditto but for TTB-2				**1.224**
1	**0.2**		**on axis 2 (0.2 x 0.3)**		**1**	**0.2**	
	0.3		**L= 76m**			**0.3**	
	7.6					**15.3**	
		0.456	m³				**0.918**

Item	Dim	Squar	Description	Item	Dim	Squar
			Ditoo but for TTB-8			
1	**0.2**		**on axis E (0.2*0.4)**			
	0.4		**L=15.3m**	**1**	**2.6**	
	15.3				**2.3**	
		1.224	m³		**0.15**	
			Ditto but for TTB-9			**0.897**
			on axis 4(0.2 x 0.3)			
1	**0.2**		**L= 3.6 m**			
	0.3					
	3.6			**1**	**3.4**	

		0.216	m^3		5.3		
			Ditto but for TTB-9		0.15		
			on axis 4(0.2 x 0.5)			2.703	
1	0.2		**l= 2.4 M**				
	0.5						
	2.4			1	3.4		
		0.240	m^3		2.5		
			Ditto but for TTB-10		0.15		
			on axis 4(0.2 x 0.5)			1.275	
1	0.2		**l= 7.2 M**				
	0.5						
	7.2			1	4.2		
		0.720	m^3		5.3		
			Total volume of beam		0.15		
		17.544	**m^3concrete**			3.339	
			C-Concrete work on C-25 for				
			ground slab, thickness 0.15				
			For panel 1, (A' B- 1,3)	1	4.2		
1	4.6		**W= 4.6 M**		2.3		
	5.3		**L= 5.3 M**		0.15		
	0.15					1.449	
		3.657	m^3				
			For panel 2, (A' B- 2,3)				
			W= 4.6M	1	7.8		
1	4.6		**L= 2.3 M**		7.3		
	2.3				0.15		
	0.15					8.541	
		1.587	m^3				

Item	Dim	Squar	Description	Item	Dim	Squar

			For panel 9(AC- 3,4')				
			worked as below		**1**	**3.4**	
			A= 1/4 x 3.14 x 5.667 ^{2}			**9.9**	
			A= 25.2m^{2}			**0.15**	
1	**25.2**						**5.049**
	0.15						
		3.780	m^{3}		**1**	**4.2**	
			Concrete work for first floor			**5.3**	
			slab of thickness 0.15m			**0.15**	
							3.339
			For panel- 1 (A', B- 1,2)				
1	**4.6**		**W= 4.6**		**1**	**4.2**	
	5.3		**L= 5.3**			**9.9**	
	0.15					**0.15**	
		3.657	m^{3}				**6.237**
			For panel- 1-2 (A, B'- 2,3)				
			W= 4.6				
1	**4.6**		**L= 2.3**		**1**	**25.2**	
	2.3					**0.15**	
	0.15						**3.780**
		1.587	m^{3}				
			For panel- 3 (B,C- 2,3)				**54.377**
			W= 2.6				
1	**2.6**		**L= 2.3**		**22**	**1.25**	
	2.3					**0.3**	
	0.15					**0.15**	
		0.897	m^{3}				**1.238**
			For panel- 4(C,D- 1,2)				

1	3.4		W= 3,4				
	5.3		L= 5.3				
	0.15				2	1.2	
		2.703				3.69	
						0.22	
							1.94832

Item	Dim	Squar	Description		Item	Dim	Squar
			Ditto but for landing with a		1	3	
1	2.6		depth of 0.15m thicknes			0.2	
	1.15					0.25	
	0.15						0.15
		0.448	m³				
							0.51
		3.0155	Total volume of concrete work				
			for stair case including landing				
			E/ Concrete Work for Lintel				
			for 0.20cm HCB wall				
			LB up to 1m (0.2 x0.2)		1	1	
1	1					2.9	
	0.2						2.900
	0.2						
		0.040	m³		5	1	
1	2		(0.2 x0.2)			2.9	
	0.2						14.500
	0.2						
		0.080	m³		7	1	

						2.9		
1	3		For LB up to 3m				20.300	
	0.2		(0.2 x0.25)		2	1		
	0.25					2.9		
		0.150	m³				5.800	
1	1						104.4	
	0.15		For 0.15m HCB wall		1	4.6		
	0.20		For LB up to 1m			0.65		
		0.030	m³				2.990	
1	2				1	0.85		
	0.15		For LB up to 2m			7.9		
	0.20		(0.15 x0.20)				6.715	
		0.060	m³					

Item	Dim	Squar	Description	Item	Dim	Squar
1	1			1	0.85	
	15.4		For FFB- 2 on axis 2		14.9	
		15.400	m²			12.665
			For FFB- 3 on axis 2			
1	1		(0.2 x 0.4)			
	6-Jan		L= 7.2m			
		7.200	m²			
			L=1m	1	1	
					15.7	
1	1		For FFB- 4 on axis 4'			15.700
	7.8		(0.2 x 0.4)			

		7.800	m²	0.15+0.15+0.25+0.25+0.2					
				L=1m		1	1		
							7.4		
1	0.85			For FFB- 5 on axis A'				7.400	
	7.8			(0.2 x 0.4)					
		6.630	m²						
				0.4+0.2+0.25					
				L=0.85m		1	1		
							15.7		
1	1			For FFB- 6 on axis B				15.700	
	6.6			(0.2 x 0.4)					
		6.600	m²						
1	1			For FFB- 7 on axis C		1	1		
	14.6			(0.2 x 0.4)			8.2		
		14.600	m²					8.200	
				0.15+0.15+0.25+0.25+0.2					
				L=1m					
1	1			For FFB- 8 on axis D		1	1		
	14.9			(0.2 x 0.4)			8.2		
		14.900	m²					8.200	
				0.15+0.15+0.25+0.25+0.2					
				L=1m					

Item	Dim	Squar	Description	Item	Dim	Squar
1	1		For TTB- 5 on axis A'	1	1.4	
	7.2		(0.2 x 0.3)		2.4	

			7.200	m²	P= 0.2+0.3+0.2+0.3			3.360
					L=1m			
1	1				For TTB- 6 on axis C	1	1.4	
	15.5				(0.2 x 0.3)		7.2	
			15.500	m²				10.080
					P= 0.2+0.3+0.2+0.3			
					L=1m			249.56
1	1				For TTB- 7 on axis D			
	15.3				(0.2 x 0.3)			
			15.300	m²				
					P= 0.2+0.3+0.2+0.3	1	4.6	
					L=1m		5.3	
								24.380
1	1.2				For TTB- 7 on axis C			
	15.3				(0.2 x 0.4)	1	4.6	
			18.360	m²			2.3	
					P= 0.2+0.4+0.2+0.4			10.580
					L=1.2m			
						1	2.6	
1	1.2				For TTB- 8 on axis E		2.3	
	15.3				(0.2 x 0.3)			5.980
			18.360	m²				
					P= 0.2+0.4+0.2+0.4	1	3.4	
					L=1.2m		5.3	
								18.020
1	1				For TTB- 9 on axis 4			
	3.6				(0.2 x 0.3)	1	3.4	

		3.600	m^2	P= 0.2+0.3+0.2+0.3 L=1m			2.9	9.860

Item	Dim	Squar		Description		Item	Dim	Squar
1	4.2 5.3			For panel- 6(D E - 1,2) W= 4.2		1	3.4 9.9	
		22.260	m^2					33.660
1	4.2 2.3			For panel- 7(DE- 2,3) W= 4.2		1	4.2 5.3	
		9.660	m^2					22.260
1	7.8 7.3			For panel 8 (CE-2,3) W= 7.8		1	4.2 9.9	
		56.940	m^2					41.580
1	5.667			For panel 9 (AC-3, 4') R= 5.667m		1	5.667	5.667
		5.667	m^2					
				A= 1/4 IIr² A= 1/4 x 3.14 x 5.667 ² A= 25.2m²				362.5m²
				Form work for first floor slab thickness 0.15m		44	0.3 0.15	
1	4.6 5.3			For panel- 1 (A', B- 1,2) W= 4.6				1.980

		24.380	m²			2	0.22	
							3.685	
1	4.6			For panel- 2 (A, B'- 2,3)				1.621
	2.3			W= 4.6				
		10.580	m²			1	2.6	
							1.15	
1	2.6			For panel- 3 (B,C- 2,3)				2.990
	2.3			W= 2.6				
		5.980	m²					
								5.601
1	3.4			For panel- 4(C,D- 1,2)				
	5.3			W= 3,4				
		18.02	m²					

Item	Dim	Squar	Description	Item	Dim	Squar
1	0.2		E/ For work for intel beam			
	1		for 0.2m HCM wall for			
		0.200	m²			
			(0.2 x0.2)			
1	0.2					
	2					
		0.400	m²			
			(0.2 x0.2)			
1	0.2					
	3		For LB up to 3m			
		0.600	m²			
1	0.15		For 0.15m HCB wall			

	1					
		0.150	m²			
1	0.15		LB up to 1m			
	2		(0.15 x0.2)			
		0.300				
			For LB up to 2m			
			(0.15 x0.2)			
1	0.2					
	3					
		0.600				
			For LB up to 3m			
			(0.2 x0.25)			
	0.15		L= 2.3		0.15	
		#REF!				#REF!
1	3.4		For panel- 4(C,D- 1,2)	2	1.2	
	5.3		W= 3,4		3.69	
	0.15		L= 5.3		0.22	
		2.703				1.94832

Item	Dim	Squar	Description	Item	Dim	Squar
			Ditto but for landing with a	1	3	
1	2.6		depth of 0.15m thicknes		0.2	
	1.15				0.25	
	0.15					0.15
		0.448				
						0.51
		3.0155	Total volume of concrete work			
			for stair case including landing			
			E/ Concrete Work for Lintel			
			for 0.20cm HCB wall			
			LB up to 1m (0.2 x0.2)	1	1	
1	1				2.9	
	0.2					2.900
	0.2					
		0.040	For LB up to 2m	5	1	
1	2		(0.2 x0.2)		2.9	
	0.2					14.500
	0.2					
		0.080		7	1	
					2.9	
1	3		For LB up to 3m			20.300
	0.2		(0.2 x0.25)	2	1	
	0.25				2.9	
		0.150				5.800

1	1					104.4
	0.15		For 0.15m HCB wall	1	4.6	
	0.20		For LB up to 1m		0.65	
		0.030	(0.15 x0.20)			2.990
1	2			1	0.85	
	0.15		For LB up to 2m		7.9	
	0.20		(0.15 x0.20)			6.715
		0.060				
Item	Dim	Squar	Description	Item	Dim	Squar
1	1			1	0.85	
	15.4		For FFB- 2 on axis 2		14.9	
		15.400				12.665
			For FFB- 3 on axis 2			
1	1		(0.2 x 0.4)			
	6-Jan		L= 7.2m			
		7.200	0.15+0.15+0.25+0.25+0.2			
			L=1m	1	1	
					15.7	
1	1		For FFB- 4 on axis 4'			15.700
	7.8		(0.2 x 0.4)			
		7.800	L= 7.8m			
			0.15+0.15+0.25+0.25+0.2			
			L=1m	1	1	
					7.4	
1	0.85		For FFB- 5 on axis A'			7.400
	7.8		(0.2 x 0.4)			

		6.630	L= 7.8m			
			0.4+0.2+0.25			
			L=0.85m	1	1	
					15.7	
1	1		For FFB- 6 on axis B			15.700
	6.6		(0.2 x 0.4)			
		6.600	L= 6.6m			
1	1		For FFB- 7 on axis C	1	1	
	14.6		(0.2 x 0.4)		8.2	
		14.600	L= 14.6m			8.200
			0.15+0.15+0.25+0.25+0.2			
			L=1m			
1	1		For FFB- 8 on axis D	1	1	
	14.9		(0.2 x 0.4)		8.2	
		14.900	L= 14.9m			8.200
			0.15+0.15+0.25+0.25+0.2			
			L=1m			
Item	Dim	Squar	Description	Item	Dim	Squar
1	1		For TTB- 5 on axis A'	1	1.4	
	7.2		(0.2 x 0.3)		2.4	
		7.200	L= 7.2m			3.360
			P= 0.2+0.3+0.2+0.3			
			L=1m			
1	1		For TTB- 6 on axis C	1	1.4	
	15.5		(0.2 x 0.3)		7.2	

Item	Dim	Squar	Description	Item	Dim	Squar
		15.500	L= 15.5			10.080
			P= 0.2+0.3+0.2+0.3			
			L=1m			
						249.56
1	1		For TTB- 7 on axis D			
	15.3		(0.2 x 0.3)			
		15.300	L= 15.3M			
			P= 0.2+0.3+0.2+0.3	1	4.6	
			L=1m		5.3	
						24.380
1	1.2		For TTB- 7 on axis C			
	15.3		(0.2 x 0.4)	1	4.6	
		18.360	L= 15.3M		2.3	
			P= 0.2+0.4+0.2+0.4			10.580
			L=1.2m			
				1	2.6	
1	1.2		For TTB- 8 on axis E		2.3	
	15.3		(0.2 x 0.3)			5.980
		18.360	L= 15.3m			
			P= 0.2+0.4+0.2+0.4	1	3.4	
			L=1.2m		5.3	
						18.020
1	1		For TTB- 9 on axis 4			
	3.6		(0.2 x 0.3)	1	3.4	
		3.600	L= 3.6 m		2.9	
			P= 0.2+0.3+0.2+0.3			9.860
			L=1m			

1	4.2		For panel- 6(D E - 1,2)	1	3.4	
	5.3		W= 4.2		9.9	
		22.260	L= 5.3			33.660
1	4.2		For panel- 7(DE- 2,3)	1	4.2	
	2.3		W= 4.2		5.3	
		9.660	L=2.3			22.260
1	7.8		For panel 8 (CE-2,3)	1	4.2	
	7.3		W= 7.8		9.9	
		56.940	L=7.3			41.580
1			For panel 9 (AC-3, 4')	1	5.667	
	5.667		R= 5.667m			5.667
		5.667				
			A= 1/4 IIr²			
			A= 1/4 x 3.14 x 5.667 ²			
			A= 25.2m²			
						362.5m
			Form work for first floor slab	44	0.3	
			thickness 0.15m		0.15	
1	4.6		For panel- 1 (A', B- 1,2)			1.980
	5.3		W= 4.6			
		24.380	L= 5.3	2	0.22	
					3.685	
1	4.6		For panel- 2 (A, B'- 2,3)			1.621
	2.3		W= 4.6			
		10.580	L= 2.3	1	2.6	
					1.15	

1	2.6		For panel- 3 (B,C- 2,3)				2.990
	2.3		W= 2.6				
		5.980	L= 2.3				
							5.601
1	3.4		For panel- 4(C,D- 1,2)				
	5.3		W= 3,4				
		18.02	L= 5.3				
Item	Dim	Squar	Description		Item	Dim	Squar
1	0.2		E/ For work for intel beam				
	1		for 0.2m HCM wall for				
		0.200	LB up to 1m				
			(0.2 x0.2)				
1	0.2						
	2						
		0.400	For LB up to 2m				
			(0.2 x0.2)				
1	0.2						
	3		For LB up to 3m				
		0.600	(0.2 x0.25)				
1	0.15		For 0.15m HCB wall				
	1						
		0.150					
1	0.15		LB up to 1m				
	2		(0.15 x0.2)				
		0.300					

1	0.2 3	0.600	For LB up to 2m (0.15 x0.2) For LB up to 3m (0.2 x0.25)				

DESCRIPTION
2.5 Backfill
2.5.1 Fill around footing and foundation column pitvolume- con.volume 25.322m^3 - 13.883 m^3 11.442m^3 3 Backfill under hard core   Total amount of Backfill **2.6 Cart away the excavated material** top soil 249.64m2x0.02m 49.928m^3 331.722+ 49.9 Total 381.622m^3
2.7250mm thick basaltic stone hardcor well consolidated and blinded with 200mm gravel.
a/For panel bounded by axis A'B and 1,2 4600x5300mm b/ ditto but for panel bound by axis B, C and 1,2 2600 x 5300mm

c/ Ditto but for panel bounded by axis C, D and 1.2 3199 x 5300mm	
d/ Ditto but for panel bounded by axis D,E and 1.2 4000 x 5300mm	m^2
DESCRIPTION	
3 Concrete work **3.1 lean concrete c.5 150 kg\m3** a) under footing with thickness 50mm a-1 For footing F1 1400 x 1400 mm a-2 duto but footing F2 (1200x1200) a-3 duto but footing combined CF1 (3100x1000)	

b) lean concret under masonary
b-1) for depth of masonary 600 mm
EL = L1 + L2 = Ln
= 22-6m
width = 500mm

b2) ditto but deepth of 1500mm
EL = Lr + Lv+ .... Ln
= 43.69
width = 500mm
lean concete

bounded by axis A' B & 1 2
(4000 x 5300)mm

d-2) ditto but for panel axis
B C & 1 2
(2600 x 5300)mm

d-3) ditto but for panel axis
CD & 1 2
(3200x 5300)mm

d-4) ditto but for panel axis
DE & 1 2

(4000x 5300)mm
DESCRIPTION
a-3) dito but for combined fooling 3100 x 1000 with thiekness 517mm Total volume **of concrete** for footing pads b) concret work c-25 for foundation column b1)columns C1 200x300mm h=2275 120 x 300mm h= 1.375m 120 x 300mm h= 1.375m b-4)ditto but for column C5 200 x 300mm h= 1.1375m

b-5) ditto but for column C6 200x300mm
h=1.1375

Total Volumeof concrrete
for foundtion colomn
C) concrete work for bsement
floor beams
C-1) BB -1 on axis 1& 3
(200 X 400MM)
C= 14.35m

DESCRIPTION

e-2) ditto but for column c-4
(200 x300)mm
h= 2.9

e-3) ditto but for column c-5
(200 x300)mm
h= 2.9

e-4) ditto but for column c-6
(200 x300)mm

h= 2.9

Total volume of cocerate for
elevation column of BF plan

F concert work

for basemnt stair

f-1) for triangular part of stain

1.25m

$5^2 + r^2$

A= 1\2 x 0.3 x 0.15 = 0.0225 m^2

L= 1.25 m

F.2/ For rectanglar part of the stair

1.25m

0.22m

3.35m

F-3 for landing part of the stair

0.15m

2.15m 1.6m

Total Volume of concrete for basement stair

DESCRIPTION
H/ Concrete Work **For 100mm thick slab for** **basement floor plan** H-1/ For panel bounded by axis A'B& 12 4600X5.300mm H-2/ Ditto but for panel bounded by B C& 12 2600x 5300mm H-3/ Ditto but for panel bounded by C D & 12 3200x 5300mm H-4/ Ditto but for panel bounded by D E & 12 3200x 5300mm H-5 ditto but for panel bounded by axis A' C & 2 3 7400 x 2294mm H-6/ Ditto but for panel bounded by C D & 2 3 3200x 2294mm H-7/ Ditto but for panel bounded by D E & 2 3 4000 x 2294mm

Total Volum of Conceret for
basement Floor slab

I/ Concrete Work

For 100mm thick slab for ground floor plan

I-1/ For panel bounded by axis
C D & 3 4' 7200 X 7800mm

DESCRIPTION

I-10/Ditto but for panel bounded by axis
CD & 2 3 3400 x 2300mm

I-11/Ditto but for panel bounded by axis
DE & 2 3 3400 x 2300mm

Total Volume of Concrete for ground
slab

3.3 Form Work

20mm thick swan zigaba form work

A/ Footing Pads

a-1/ For F_1 (1400x 1400)
with thickeness 350mm

P=2(1400 + 1400)=5600mm
a-2/ Ditto but for footing
F_2 (1200x 1200) is thickness 270mm

a-3/ Ditto but for compblned footing
CF (3100x 1000) is thickness 517mm
P=2(3100+ 1000)=4100mm

Total Form work for footing pads

b/Form work for Fundation colomn
b-1/ Colomn C_1
200 x 300 mm
h= 2275 mm
b-2/ Ditto but Colomn C_2
200x300mm h=1375
P=2(200+ 300)=1000mm

DESCRIPTION
d/Form work for basement floor beams d-1/ BB-1 on axis 1&3 200 x 400mm L= 14.35m development unatn on two sides 0.4+0.25=0.65 d-2/ Ditto but for BB8-2 an axis A' (200 x 400) L= 7.65

development = 0. 2 +0.25

= 0.65

d-3/ Ditto but for BB-3 an axis B

(200 x 400)

L= 5.2

development ungth on two sides

0.25+0.25

0.6

d-4/ Ditto but for BB-4 an axis C D E

(200 x 400)

L= 7.4

development length on two sides

0.25+0.15

0.5

d-5/ Ditto but for BB-1A an axis 2

(200 x 400)

L= 7.4

development length on two sides

0.25+0.15

0.5

Total area of form work for basement beams

DESCRIPTION
G-3/ Ditto but for GFB-2 on axis 2(200 x 400)

L= 14.35
development length on two sides
0.2 + 0.25+0.25
0.7 m
G-4/ Ditto but for GFB-3 on axis
2(200 x 400)
L= 14.75m
development length on two sides
0.2 + 0.25+0.25
0.7 m
G-5/ Ditto for GFB- 4 on axis 4'
/200 x 300mm/
L=7.6. m
development length on
0.4 + 0.2 + 0.25
0.85m
G-6/ Ditto for GFB- 5 on axis A'
/200 x 300mm/
L=6.65. m
development length on
0.85m

G-7/ Ditto but for GFB-6 on axis
B&D (200 x 400)
L= 6.5M
development length on two sides
0.2 + 0.25+0.25
0.7 m

DESCRIPTION
H-7/ Ditto but for panel bounded by axis A' B & 2 3 4550 x 2300mm H-8/ Ditto but for panel bounded by axis B C & 2 3 2650 x 2300mm H-9/ Ditto but for panel bounded by axis C D & 2 3 34000 x 2300mm H-10/ Ditto but for panel bounded by axis D E & 2 3 42000 x 2300mm Total area of for the work for ground slab

Description
06. Roof and wall cladding 6.1 15mm think harvey titk roof cover   For Area A1 A= lxw   For Area A2 A= lxw   6.2 Guage 28 metal sheet Ridge

Total Roof and wall
clading 129.56m+62.32m

Description

In order to satisfy the irregular
shape take the area of No of
truss
4/2 = 2

Total length 4398 + 4837 =9235mm
2x 9.235
18.43m

For truss
Type - TT-5

$$X = \sqrt{(4398)^2 + (2000)^2}$$

X= 4837

No q truss

$$\frac{32800}{1300}$$

Total No. of Truss

2.5 ≈ 3

Description
For Truss **Type TT -7**

$X = \sqrt{(4832)^2 + (2000)^2}$

X= 4832.6mm

Total No. of Truss

7720

1300

5.9 ≈ 6

Total length of Truss

6 (4837 + 4398)

55.4m

For Truss

Type TT -2

$X = \sqrt{(4896)^2 + (2000)^2}$

X= 4837 mm

Total No. of Truss

3264

1300

2.5 ≈ 3

Total length of Truss

(4837 + 4396)

9233mm

Description

7.4 supply and fix
kichen cabinet with
Shelves and drawers covered with
thick All accordinf to
drawing and Engineers approval
price including hings locks

a, cabinet size
(1880 x 900 x 600mm
b, cabinet size
(700 x 900 x 600mm)

10, Metal work
a, Ground and 1st
floor windows
wl (2500 x 1300) mm

Ditto but for W3
(1000 x 1300) mm

Ditto but for
W4(2800 x 1300)mm

b, Aluminum metal
For doors in ground
and 1st floor for
french door.
D,(1500 x 3000)mm
90% of the total

number 90% x 13 11.7
Description
C/ Metal work for curtain wall made of Aluminum Type - 1 On front ground and 1st floor Ditto but for Type -2 D/ Metal work for 90 cm high Aluminum hand rail for stair case E/ 110 cm high metal quard for balcony development length 20 F/ Metal work for corner protection

Description
g/ Ditto but for ground floor dinning room h/ Ditto but for the living room

i/ Ditto but for the office room

j/ Ditto but for the family room

Total PVC floor
finish area

11 .2 Ceramic Floor finish

a/ ceramic floor finish with a thickness
of 15mm including 35mm thick cement
screed beded for services on the basement

Kichen room
l= 4.00
w= 2.801

Description
k/ Ditto but for both room (2) on axis A B and 1,2
l/ Ditto but for ground floor , toilet room
m/ Ditto but for kichen room
Total ceramic floor finish area
11. Parcelian a/ floor finish with thickness of 4mm including 46mm thin cement screed bedded for the basement Carridor l= 5.86 w= 3.3
b/ Ditto but for firest floor sitting area

A= Il r^2
4
A= 2.8.26 m^2
c/ Ditto but for ground floor sitting
area fuarter of circle

A= Il r^2
4
A= 2.8.26 m^2

Description
c/ Ditto but for first floor plan for fornt side for rear side for left side for right side

for left side

b/Internal wall plaster of basement floor
wall with cement, sand ration (1:3) mortar
with two coats in d/nt thickness
EL = 40m

Ditto buf for ground floor
EL = 31.7m

Ditto buf for first floor
EL = 38.11m

Total internal plastering
A_T - A door + Window
691.1m - 56.28 m^2 /refre metal work/

C/ For partion wall
a/ plastering of basement floor partition
wal with cement, sand ration (1:3) mortar
with two coats on both faces
EL = 14.95m

Description

b/ Ditto but for 1st floor internal wall
El= 3.9 +15.8 +13.4 +6.21
39.31m

c/ Ditto but for basement floor & services
El= 46m

Total textured ceramic skirting

For particular wall supply and Fix 7cm high PVC skirting glued to partition wall

For gound floor partion wall
El= 36.6m

E door = 1.28 +0.9 opening + 0.86 = 3.04
Lner = 36.6 - 3.04
33.56m

b/ Ditto but for 1st floor partition wall
El= 52.76
Eopp = 5.66
(door)

lnet = 52.76-5.66
47.1m

c/ Ditto but for basement floor including service

El= 65.2m
Eopp= 7.5m

lnet = 65.2-7.5
57.7m

Description

12.2 For Internal walls apply enulsion paint
For ground floor wall
El= 31.7m
h= 3.3m
At = 104.6 m^2

Aopening = 7.0m^2

This opening cover the heigt of wall
partially not on all span height of wall

Anet= 104.6-7.01m^2
97.6 m^2

Ditto bur for 1st floor wall / internal /

El= 38.11m
3.30m
A= 12.76m^2

Eaopp = 10.53m^2
Anet = 125.76

12.2 For partition wall of Ground floor
El= 33.84
h=3.3
At= 111.67 m^2
E Aopp= 6.388 m^2
2EAop= 2(6.384)
12.77m^2

Anet= 111.67 m^2
12.77
Anet= 98.9m^2
AT= 2(98.9)
At= 197.8

Description
14.2 Galvanize steel water distribution pipes according in the drawing showing compete

with the necessary fittings for horizontal pipes having a diameter of 150mm

L= 34.5gm

14.3 Gate valves at approved standards on the water supply mains complete with all the necessary accessaries and diamete of 20mm

14.4 UPVC type of waste water sewerape pipe according to the drawing shown

a/ diameter of 50mm
L= 65.46m

b/ diameter of 75 mm
L= 9.44m

c/ diameter of 110 mm
L= 1.635m

d/ diameter of 150 mm
L= 34.65m

14.5 Elevated water tank pipe at a higer level.

a/ diameter of 250 mm

b/ diameter of 320 mm

14.6 Hot & Cold water pipe

14.6. a/ HDPE pipe for cold wate supply
for external use pn-10

a/ diameter of 25 mm
L= 21.13m

b/ diameter of 25 mm
L= 1.94m

Description
14.16 Electrical water heater a/ Capacity 30 lit b/ ditto as above but capacity of 50 lit c/ ditto as above but capacity of 80 lit 14.17 Floor drains made of enameled cast iron, diameter 15mm 14.18 Roof drains made of PVC, diameter of 75mm 14.19 Soil waste and vent pipe in horizontal

branhes & Vertical stacks made of rigid plastic pipps (PVC) of approved standards

a/ diameter 50 mm

b/ diameter 75 mm

c/ diameter 110 mm

14.20 Vent caps made of rigid PVC diameter of 50 mm

Description
block work for 4.1 basement floor with **HCB** wall and thcknees of meixi cluding the area of dioor an window **EL = 5** h= 3.3 ditto but for EL 2.9 m h= 3.3m ditto but for EL 2.8 m h= 3.3m with HCB wall and thicknes 0.15m including the area of door and window EL = 7.6 h=3.3

Total HCB work for basement
Description
For living Room
For toilet
For Dinnirg Room
For office

Doors for ground floor

For intrance

Total sum
window and door for ground
floor

Description
Ditto as above but for C-4 (0.2 x 0.3) m^3 **Ditto as above but for** C-3 (0.2 x 0.3)

Ditto as above but for

m^3 C-5 (0.2 x 0.3)

Ditto as above but for

C-6 (0.2 x 0.3)

m^3

Ditto as above but for

C-3 (0.2 x 0.3)

m^3Total column volume

B/ Concrete Work for first floor beam C-25

FFB-1 on axis 1 (0.2 x 0.3)

L=4.6m

m^3

Ditto as above on axis

A (0.2 x0.4) FFB- 1on axis

A. L=7.9m

m^3

ditto as above but on FFB-2on axis 2

(0.2*0.4) L=15.4m

m^3

Description
Ditto but for TTB-3 **on axis 3(0.2 x 0.3)** **L= 15.7m**
m^3
Ditto but for TTB-4 **on axis 4'(0.2 x 0.3)** **L= 8.2m**
m^3
Ditto but for TTB-5 **on axis A'(0.2 x 0.3)** **L= 7.2m**
m^3
Ditto but for TTB-6 **on axis C (0.2 x 0.3)** **L= 15.5m**
m^3

Ditto but for TTB-7
on axis D (0.2 x 0.3)
L= 15.3m

m^3

Ditto but for TTB-7
on axis D (0.2 x 0.4)
L= 15.3m

m^3

Ditto but for TTB-8
on axis E (0.2 x 0.3)
L= 15.3m

m^3

Description
For panel 3, (BC-2,3) **W= 2.6M** **L= 2.3 M** m^3 **For panel 4, (C,D-1,2)** **W= 3.4 M** **L= 5.3 M**

m³

For panel 5, (C,D-2,3)
W= 3.4 M
L= 2.3 M

m³

For panel 6, (DE-1,2)
W= 4.2 M
L= 5.3 M

m³

For panel 7 (D,E-1,2)
W= 4.2 M
L= 2.3 M

m³

For panel 8 CD- 3,4)
W=7.8 M
L=7.3 M

m³

Description

For panel- 5(C,D- 2,4')

W= 3,4

L= 9,9

m^3

For panel- 6(D E - 1,2)

W= 4.2

L= 5.3

m^3

For panel- 7(DE- 2,4')

W= 4.2

L= 9.9

m^3

For panel 8 (AC-3,4)

A= 1/4 IIr²

A= 1/4 x 3.14 x 5.667 ^{2}

A= 25.2m^2

m^3

Total concrete work for slab

A/ Concrete work for stair case

For triangle pan of each stair

m^3

Ditto but for rectangle part of the

stair

$$\sqrt{\quad} \quad \mathbf{x} \quad \mathbf{0.3}^2 + 0.15^2$$

x = 0.335m

Total length = 11x 0.335m

3.685

m^3

Description
For LB up to 2m **(0.20 x0.25)** m^3 **Total concrete work fof intel** **3.2/ Form work for super structure** **a/ Form work for columns (Swan zigba form work) on ground floor** **For C1 (0.2 x 0.3)** **L= 2.9m** m^2 **For C-3 (0.2 x 0.3)** **L= 2.9m** m^2 **For C-4 (0.2 x 0.3)** **L= 2.9m**

m²

For C-5 (0.2 x 0.3)

L= 2.9m

m²

Total column form work

b/ Form work for first floor beam

For FFB- 1 on axis 1 (0.2x0.3)

m²

0.3+0.2+0.15 = 0.65

For FFB- 1 on axis 1 (0.2x0.4) L=7.9

m²

0.4+0.2+025 = 0.85

Description
For FFB- 8 on axis D **(0.2 x 0.4)** m² **0.4+0.2+0.25** **L=0.85m** **Form work for top tie beam** **For TTB- 1 on axis 1** **(0.2 x 0.3)** m² **P= 0.2+0.3+0.2+0.3**

	L=1m **For TTB- 2 on axis 1** **2(0.2 x 0.3)** **P= 0.2+0.3+0.2+0.3** **L=1m** **For TTB- 3 on axis 1** **3(0.2 x 0.3)** **P= 0.2+0.3+0.2+0.3** **L=1m** **For TTB- 4 on axis 4'** **3(0.2 x 0.3)** **P= 0.2+0.3+0.2+0.3** **L=1m** **For TTB- 4 on axis 4'** **3(0.2 x 0.3)** **P= 0.2+0.3+0.2+0.3** L=1m	m^2 m^2 m^2 m^2

Description
For TTB- 9 on axis 4 **(0.2 x 0.5)**

m²

P= 0.2+0.5+0.2+0.5

L=1.4m

For TTB- 10 on axis 4

(0.2 x 0.5)

m²

P= 0.2+0.5+0.2+0.5

L=1.4m

Total form work for beam

C/Form work for ground slab

thickness 0.15m

For panel- 1 (A', B- 1,2)

W= 4.6

m²

For panel- 2 (A, B'- 2,3)

W= 4.6

m²

For panel- 3 (B,C- 2,3)

W= 2.6

m²

For panel- 4(C,D- 1,2)

W= 3,4

m²

For panel- 5(C,D- 2,4')

W= 3,4

m^2

Description
For panel- 5(C,D- 2,4') **W= 3,4** m^2 **For panel- 6(D E - 1,2)** **W= 4.2** m^2 **For panel- 7(DE- 2,4')** **W= 4.2** m^2 **For panel 8 (AC-3,4)** m^2 **A= 1/4 IIr²** **A= 1/4 x 3.14 x 5.667** ^{2} **A= 25.2m²** **Total form work for slab** **D/ Form work for stair case** **m²For trianglar pan of each stair**

on 4 side

4x 11

m^2

For the soffit part

Total length

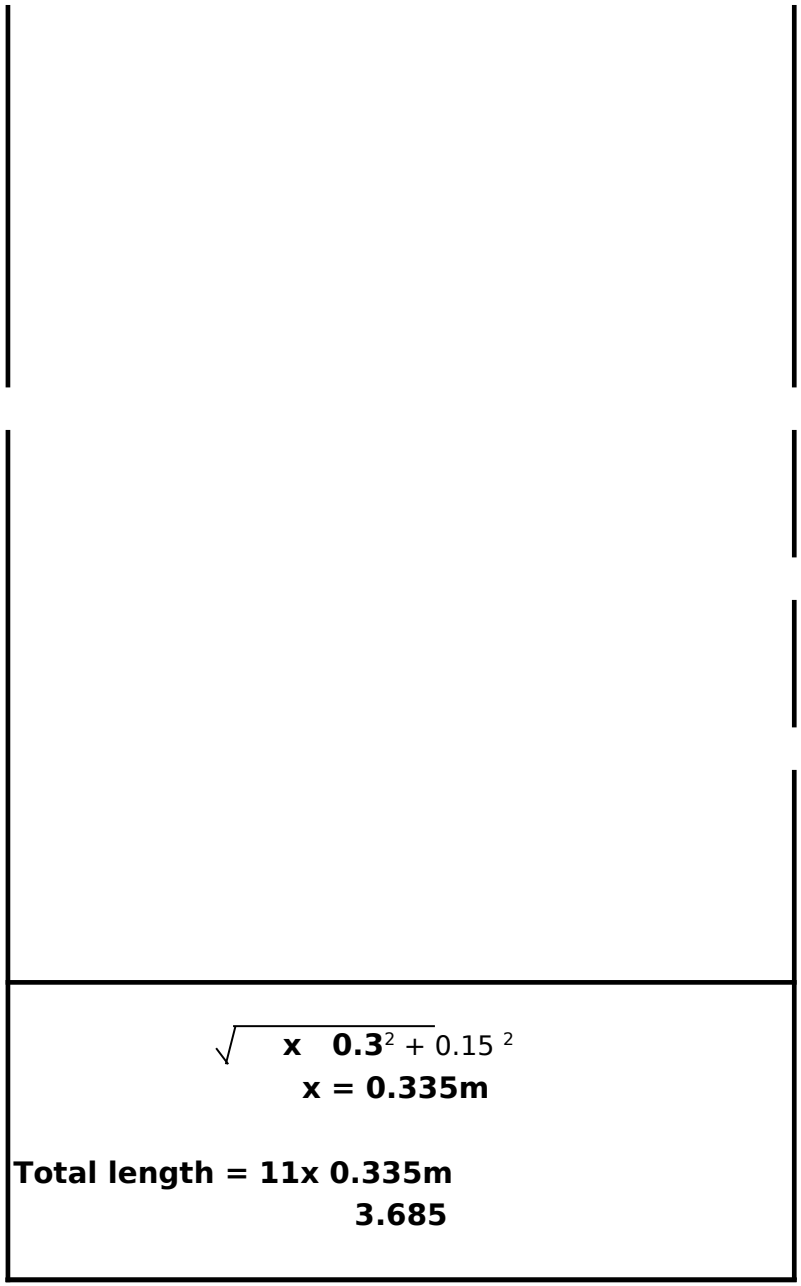
11x0.335= 3.685

m^2

For the landing part of safit

m^2 Total volue of form work for stair case including landing

Description


$\sqrt{\quad}$ x 0.3^2 + 0.15 ^{2}
x = 0.335m
Total length = 11x 0.335m
3.685

Description
For LB up to 2m **(0.20 x0.25)**
Total concrete work fof intel
3.2/ Form work for super structure
a/ Form work for columns (Swan zigba form work) on ground floor
For C1 (0.2 x 0.3) **L= 2.9m**
For C-3 (0.2 x 0.3) **L= 2.9m**
For C-4 (0.2 x 0.3) **L= 2.9m**
For C-5 (0.2 x 0.3) **L= 2.9m**

Total column form work

b/ Form work for first floor beam

For FFB- 1 on axis 1 (0.2x0.3)

L= 4.6m

0.3+0.2+0.15 = 0.65

For FFB- 1 on axis 1 (0.2x0.4) L=7.9

7.9m+7.9m= 158m

0.4+0.2+025 = 0.85

Description

For FFB- 8 on axis D

(0.2 x 0.4)

L= 14.9m

0.4+0.2+0.25

L=0.85m

Form work for top tie beam

For TTB- 1 on axis 1

(0.2 x 0.3)

L= 15.7m

P= 0.2+0.3+0.2+0.3

L=1m

For TTB- 2 on axis 1

2(0.2 x 0.3)

L= 7.4m

P= 0.2+0.3+0.2+0.3

L=1m **For TTB- 3 on axis 1** **3(0.2 x 0.3)** **15.7m** **P= 0.2+0.3+0.2+0.3** **L=1m** **For TTB- 4 on axis 4'** **3(0.2 x 0.3)** **L= 8.2m** **P= 0.2+0.3+0.2+0.3** **L=1m** **For TTB- 4 on axis 4'** **3(0.2 x 0.3)** **L= 8.2m** **P= 0.2+0.3+0.2+0.3** L=1m
Description
For TTB- 9 on axis 4 **(0.2 x 0.5)** **L= 2.4 m** **P= 0.2+0.5+0.2+0.5** **L=1.4m** **For TTB- 10 on axis 4** **(0.2 x 0.5)**

Description
L= 7.2 m P= 0.2+0.5+0.2+0.5 L=1.4m Total form work for beam C/Form work for ground slab thickness 0.15m For panel- 1 (A', B- 1,2) W= 4.6 L= 5.3 For panel- 2 (A, B'- 2,3) W= 4.6 L= 2.3 For panel- 3 (B,C- 2,3) W= 2.6 L= 2.3 For panel- 4(C,D- 1,2) W= 3,4 L= 5.3 For panel- 5(C,D- 2,4') W= 3,4 L= 2.9

For panel- 5(C,D- 2,4')

W= 3,4

L= 9,9

For panel- 6(D E - 1,2)

W= 4.2

L= 5.3

For panel- 7(DE- 2,4')

W= 4.2

L= 9,9

For panel 8 (AC-3,4)

$A = 1/4\ \Pi r^2$

$A = 1/4 \times 3.14 \times 5.667^2$

$A = 25.2m^2$

Total form work for slab

D/ Form work for stair case

For trianglar pan of each stair

on 4 side

4x 11

44

For the soffit part

Total length

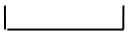
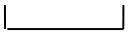
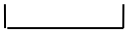
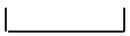
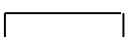
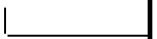
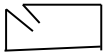
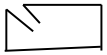
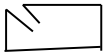
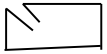
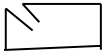
11x0.335= 3.685

For the landing part of safit

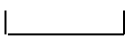
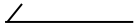
Total volue of form work for stair case including landing

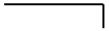
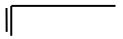
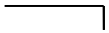
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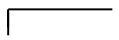
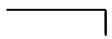
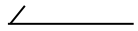
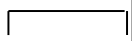


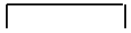
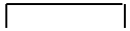
Item	Location	Shape	Dia (mm)	length (m)	No. of Bars member	no. member in (PCS)	Total no of bar	EL				
								φ 6	φ8	φ10	φ12	φ13
3.4	Footing pad F-1		12	1.8	10	7	70				126	
			12	1.8	10	7	70				126	
	F-2		12	1.6	9	3	27				43.2	
			12	1.6	9	3	27				43.2	
	combined Footing		14	3.8	10	4	40					
			12	0.9	26	4	104		93.6		93.6	
			14	3	10	4	40					
			8	1	14	1	14		14			
	Found ation column C-3		16	2.46	8	1	8					19.68
	Sirrup		8	1	19	1	19					
	C-4		14	2.385	6	5	30					
	Sirrup		8	0.8	13	5	65		52		52	
	C-5		14	2.386	4	7	28					
	Sirrup		8	0.8	13	7	91				72.8	
	C-6		14	2.385	6	2	12				28.62	
			8	0.8	13	2	26				20.8	
	C-1		12	3.95	4	1	4				15.8	
	Sirrup		8	0.8	16	1	16				12.8	

	C-1		16	3.7	8	1	8				29.6	
				Total length				***0***		***0***	***634.82***	***19.68***
				w\m				***0.394***	***0.62***	***0.89***	***1.0414***	***1.2078***
				w(k.g)						***473***	***562.14***	***30.652***

Item	**Location**	**Shape**	**Dia (mm)**	**length (m)**	**No. of Bars member**	**No. member in (PCS)**	**Total no of bar**	**EL**				
								φ 6	**φ8**	**φ10**	**φ12**	**φ13**
3.4	Stirrup		8	0.8	16	1	16		12.8			
	C-1		16	3.7	8	1	8					
	Stirrup		8	1	15	1	15		15			
	basement beam											
	BB'-2 axis 1,2		14	8.2	2	1	2					32.8
			14	8.95	2	1	2					35.8
			12	10.43	2	1	2				41.72	
	Stirrup		8	1	98	1	98		98			
	for BB-1A Axis -2		12	3.64	2	5	10				36.4	
			12	3.14	2	5	10				31.4	
	Stirrup		8	1	27	5	135		135			
	for BB-1A Axis -2		14	10.15	2	1	2					20.3
			12	7.8	2	1	2				15.6	

			14	6.88	2	1	2					13.76
			12	8.12	2	1	2				16.24	
	Stirrup		8	1	80	1	80		80			
	for BB-1A Axis -2		14	10.15	2	1	2					20.3
			12	7.8	2	1	2				15.6	
			14	6.885	2	1	2					13.77
					Total length				***341***		***156.96***	***136.73***
					w\m				***0.39***	***0.62***	***0.8874***	***1.04142***
					w(k.g)				***###***	***0.0***	***139.3***	***142.4***

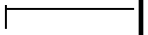
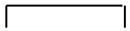
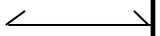
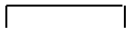
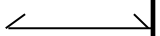
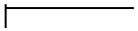
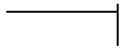
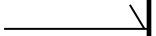
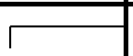
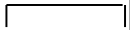
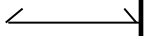
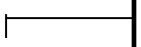
Item	**Location**	**Shape**	**Dia (mm)**	**length (m)**	**No. of Bars member**	**no. member in (PCS)**	**Total no of bar**	**EL**				
								φ 6	**φ8**	**φ10**	**φ12**	**φ13**
			12	8.2	2	1	2				16.4	
3.4	Stirrup		8	1	80	1	80		80			
	for BB-1 on		12	10.65	2	2	4				42.6	
	axis -1-3		12	6.865	2	2	4				27.46	
			12	8	2	2	4				32	
	Stirrup		12	8.2	2	2	4				32.8	
	for BB-2 on		8	1	80	2	160		160			
	axis A'		12	8.85	2	1	2				17.7	

			12	8.15	2	1	2				16.3	
	Stirrup		8	1	40	1	40		40			
	for BB-3 on		14	6.4	3	1	3					
	axis B		14	5.7	2	1	2					
	Stirrup		8	1.2	29	1	29		34.8			
	for BB-4 on		14	8.9	2	3	6					
	axis CD, E		12	8.2	2	3	6				49.2	
	Stirrup		8	1.2	40	3	120		144			
					Total length				***459***		***234.46***	***234.46***
					w\m				***0.39***	***0.62***	***0.8874***	***1.04142***
					w(k.g)				***181***		***208.05***	***244.171***

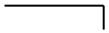
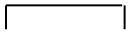
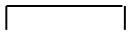
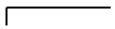
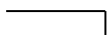
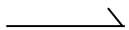
Item	**Location**	**Shape**	**Dia (mm)**	**Length (m)**	**No of bar pna membe**	**No of member (pcs)**	**Total No of bars**	**Ø6**	**Ø8**	**Ø10**	**Ø12**	**Ø14**
3.4	Basement											
	Axis AB, 1,3		8	4.9	26	1	26		127.4			
			8	5.47	29	1	29		159			
	Axis B-C & 1,2		8	2.76	14	1	14		38.64			
			8	5.475	2	1	2		10.95			

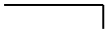
	Axis C- D & 1,2		8	3.4	14	1	14		47.6			
			8	5.475	29	1	29		159			
			8	4.37	23	1	23		101			
	Axis 2-3 & A- C		8	5.475	29	1	29		159			
			8	7.68	40	1	40		307.2			
	Axis 2-3 & C- D		8	2.475	14	1	14		34.65			
			8	3.4	18	1	18		61.2			
	Axis D- E & 2-3		8	2.3	13	1	13		29.9			
			8	4.2	22	1	22		92.4			
	For Ground floor		8	2.3	13	1	13		29.9			
			10	5.2	58	1	58					
	Axis A' A and & 1-2		10	2.47	81	1	81					
			12	1.92	52	1	52					
			10	8.15	35	1	35					
					Total lengt				1357			
					w\m				***0.39***	***0.62***	***0.8874***	***1.04142***
					N(k.g)				535	0	0	

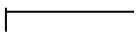
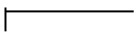
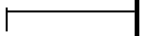
Item	Location	Shape	Dia (mm)	Length (m)	No of bar	No of member	Total No					

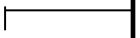
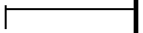
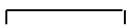
				pma membe	(pcs)	of bars	Ø6	Ø8	Ø10	Ø12	Ø14
3.3	FFB-1 on axis A		14	3.75	1	1	1					3.75
			14	5.7	2	1	2					11.4
			12	5	2	1	2				10	
	Stirrup		8	1.2	26	1	26		31.2			
	FFB-1 on axis 1		14	2.67	1	1	1					2.67
			14	8.9	2	1	2					17.8
	Stirrup		14	8.2	2	1	2					16.4
			8	1.2	41	1	41					49.2
	FFB-2 on axis 2		14	8.1	2	1	2					16.2
			14	6.8	2	1	2					13.6
			14	5	2	1	2					10
			14	11	2	1	2					22
			14	5.665	1	1	1					5.665
	Stirrup		8	1.2	79	1	79		94.8			
	FFB-3 on axis 3		14	8.5	2	1	2					17
			12	7.8	2	1	2				15.6	
	Stirrup		8	1.2	40	1	40		48			
	FFB-4 on axis 4		14	8.9	3	1	3					26.7
			14	8.2	2	1	2					16.4
	FFB-7 on axis C		14	12	3	1	3				36	

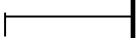
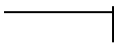
Total lengt				142.8		51.6	127.565	
w/m				***0.39***	***0.62***	***0.8874***	***1.04142***	
N(k.g)				56.32	0	45.788		

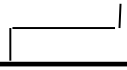
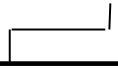
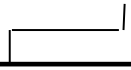
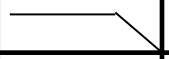
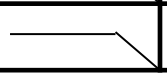
Item	Location	Shape	Dia (mm)	length (m)	No. of Bars member	no. member in (PCS)	Total no of bar	EL				
								φ 6	φ8	φ10	φ12	φ14
			12	8.2	2	1	2				16.4	
3.4	Stirrup		8	1.2	42	1	42		50.4			
	GFB -5 on axis A'		14	5.55	2	1	2					11.1
			14	7.9	2	1	2					15.8
			14	7.2	3	1	3					21.6
	Stirrup		8	1.2	37	1	37		44.4			
	GFB -6 on axis B'		14	7.7	3	1	3					23.1
			14	7.2	3	1	3					21.6
	Stirrup		8	1.2	37	1	37		44.4			
	GFB -7 on axis C'		14	12	3	1	3					36
			14	5.5	3	1	3					16.5
			14	5.7	2	1	2					11.4
	Stirrup		14	10.3	2	1	2					20.6

	GFB -8 on axis E'		8	1.2	79	1	79		94.8			
			14	2.83	2	1	2					5.66
			14	12	3	1	3					36
			14	5.5	3	1	3					16.5
			14	5.7	3	1	3					17.1
			14	10.3	3	1	3					30.9
	Stirrup		8	1.2	79	1	79		94.8			
					Total length				***329***		***16.4***	***283.86***
					w\m				***0.39***	***0.62***	***0.8874***	***1.04142***
					w(k.g)				***130***		***14.553***	***295.618***

Item	**Location**	**Shape**	**Dia (mm)**	**Length (m)**	**No of bar pna membe**	**No of member (pcs)**	**Total No of bars**	**Ø6**	**Ø8**	**Ø10**	**Ø12**	**Ø14**
3.4	GFFs axis A'B-1-2		10	5.2	54	1	54			280.8		
	-		10	2.47	54	1	54			133		
			8	7.54	39	1	39		294			
			10	1.19	39	1	39			46.41		
			10	8.15	32	1	32			260.8		
	GFs axisA'B-2-3		10	2.47	54	2	108			267		
			8	7.54	39	1	39		294			

	GFs axis B C -2,3		10	1.2	27	1	27			32.4		
			8	2.67	57	2	114		288			
			10	10.1	41	2	82			828.2		
			12	4.45	67	2	134				596.3	
			8	8.15	41	2	82		668.3			
			10	1.83	67	2	134			245		
	FFs axis C E -3 4'		10	4.07	41	1	41		42.4	167		
			12	2.89	24	1	24		257.4			
			8	2.65	16	1	16					
			8	7.8	33	1	33					
			8	7.4	31	1	31					
					Total lengt				1256	1240	596.3	
					w/m				***0.39***	***0.62***	***0.8874***	***1.04142***
					N(k.g)				496	764	529.14	

Item	**Location**	**Shape**	**Dia (mm)**	**Length (m)**	**No of bar pna membe**	**No of member (pcs)**	**Total No of bars**	**Ø6**	**Ø8**	**Ø10**	**Ø12**	**Ø14**
			12	5.32	48	1	48				255.36	
			10	1.19	60	1	60			71.4		

	Axis 3-4 & A-B		8		14	1	14		0			
			8		25	1	25		0			
	Elevation column for Basement						0		0			
	c-3		16	3.94	8	1	8					
			8	1	18	1	18		18			
	c-4		14	3.86	6	1	6					
			8	1	16	1	16		16			
	c-5		14	3.86	4	1	4					
			8	1	16	1	16		16			
	c-6		14	3.86	6	1	6					
			8	1	16	1	16		16			
	Stair case & landing											
	c-6		14	2.45	12	1	12					29.4
			12	2.385	8	1	8				19.08	
	stirrup		12	5.415	8	1	8				43.32	
			12	2.97	8	1	8				23.76	
			14	3.17	12	1	12					38.04
					Total lengt				66	71.4	341.52	67.44
					w/m				***0.39***	***0.62***	***0.8874***	***1.04142***
					N(k.g)				26		303.05	70.2

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	No of member (pcs)	Total No of bars	Ø6	Ø8	Ø10	Ø12	Ø14

					Total lengt							
					w/m							
					N(k.g)				2405	1986	1766.6	1469.5

φ14	φ16	φ18	φ20

φ14	φ16	φ18	φ20
29.6			

29.6			
1.208			
35.8			

φ14	**φ16**	**φ18**	**φ20**

19.2			
11.4			
53.4			
84			
1.208			
101.5			

Ø16	**Ø18**	**Ø20**	**Ø22**

1.208			

Ø16	Ø18	Ø20	Ø22

1.208			

φ16	φ18	φ120	φ222

1.208			

Ø16	Ø18	Ø20	Ø22

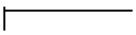
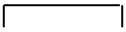
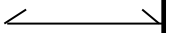
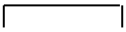
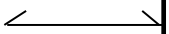
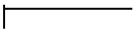
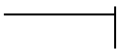
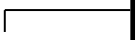
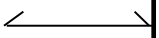
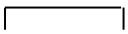
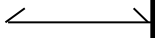
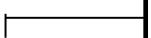
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Ø16	**Ø18**	**Ø20**	**Ø22**

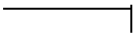
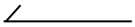
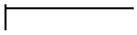
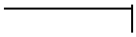
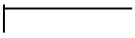
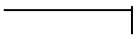
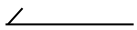
31.52			
15.44			
23.16			
29.4			
99.52			
1.208			
120.2			

Ø16	Ø18	Ø20	Ø22

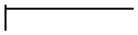
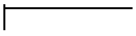
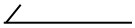
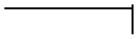
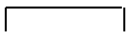
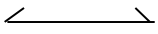
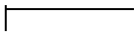
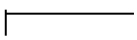
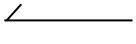
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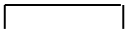
Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	FFB-1 on axis A		14	3.75	1	1	1
			14	5.7	2	1	2
			12	5	2	1	2
	Stirrup		8	1.2	26	1	26
	FFB-1 on axis 1		14	2.67	1	1	1
			14	8.9	2	1	2
	Stirrup		14	8.2	2	1	2
			8	1.2	41	1	41
	FFB-2 on axis 2		14	8.1	2	1	2
			14	6.8	2	1	2
			14	5	2	1	2
			14	11	2	1	2
			14	5.665	1	1	1
	Stirrup		8	1.2	79	1	79
	FFB-3 on axis 3		14	8.5	2	1	2
			12	7.8	2	1	2
	Stirrup		8	1.2	40	1	40
	FFB-4 on axis 4		14	8.9	3	1	3
			14	8.2	2	1	2
	FFB-7 on axis C		14	12	3	1	3
					Total lengt		
					w/m		

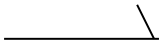
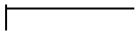
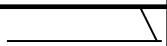
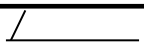
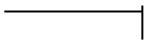
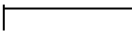
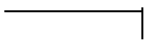
N(k.g)		

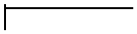
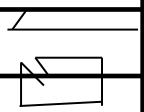
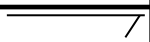
Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	No of membe r (pcs)	Total No of bars
33			14	5.5	3	1	3
			14	5.7	3	1	3
			14	10.3	3	1	3
	FFB-8 axisD		14	12	3	1	3
			14	3.33	1	1	1
			16	5.7	3	1	3
			14	3	1	1	1
			14	5.5	3	1	3
			16	10.3	3	1	3
			8	1.2	79	1	79
			16	2.66	3	1	3
			14	12	3	1	3
			14	9.45	3	1	3
			16	10.3	3	1	3
			14	5.7	3	1	3
			16	4	2	1	2
			8	1.2	79	1	79

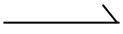
					Total length		
					w/m		
					W(k.g)		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	TTB-1 on		16	36.5	3	1	3
	axis		12	10	2	1	2
			12	7.8	2	1	2
			12	6.8	2	1	2
			12	7.8	2	1	2
			12	8.2	2	1	2
	Stirrup		8	1	80	1	80
	TTB- 2 on		14	8.5	2	1	2
	axis 2		12	7.8	2	1	2
			8	1.4	39	1	39
	Stirrup		12	3.65	1	1	1
	TTB on axis 3		12	10	2	1	2
			12	6.8	2	1	2
			12	8.12	2	1	2
			12	7.8	2	1	2
	Stirrup		8	1	80	1	80

	TTB-4on axis4		14	8.7	2	1	2
			12	8.2	2	1	2
	Stirrup		8	1.4	42	1	42
	TTB-5on axisA'		14	5.4	2	1	2
					Total Length		
					w/m		
					w/k.g		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	TTB-6 axis		14	2.83	2	1	2
			14	8.2	2	1	2
			14	2.85	2	1	2
			14	7.35	2	1	2
			14	9.25	2	1	2
			14	8.2	2	1	2
			14	7.7	2	1	2
	Stirrup		8	1	79	1	79
	TTB-7 n axis		14	7.35	2	1	2
			14	2.95	1	1	1
			14	8.2	2	1	2
			14	9.4	2	1	2
			14	7.7	3	1	3

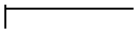
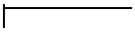
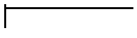
	Stirrup		8	1.4	79	1	79
	TTB-A axis		16	3.5	3	1	3
			14	10.02	2	1	2
			14	9.57	3	1	3
	Stirrup		8	1.4	41	1	41
	TTB-9 axis		14	3.2	2	1	2
			14	6.25	2	1	2
					Total lengt		
					w/m		
					N(k.g)		

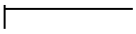
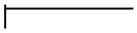
Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	TTB-9 axis		14	2.3	2	1	2
			14	3.8	2	1	2
	Stirrup		8	1	19	1	19
	for iypiccal		8	23.8	6	2	12
	gutter section						
					Total lengt		
					w/m		

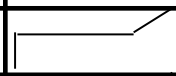
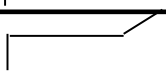
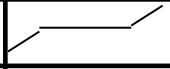
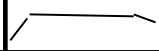
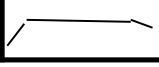
N(k.g)		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	Elevation colum						
	Column(c')		12	3.95	4	10	40
	stirrup		8	0.8	16	10	160
	c-I		16	3.94	8	3	24
			16	2.75	8	1	8
	stirrup		8	1	29	1	29
	c-3		16	3.94	8	1	8
			16	3.125	8	1	8

	stirrup		8	1	29	1	29
	c-4		14	3.86	6	5	30
			14	3.125	6	5	30
	stirrup		8	1	29	1	29
	c-5		14	3.86	4	7	28
			14	2.975	4	7	28
	stirrup		8	1	29	1	29
	c-6		14	3.86	6	2	12
			14	3.125	4	2	8
	stirrup		8	1	29	1	29
					Total lengt		
					w/m		
					N(k.g)		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	FFs axisA'B-1-2		10	5.2	54	1	54
			10	2.47	54	1	54
			8	7.54	39	1	39
			10	1.19	39	1	39
			10	8.15	32	1	32
	FFs axisA'B-2-3		10	2.47	54	2	108
			8	7.54	39	1	39

	FFs axis CD 1-2		10	1.2	27	1	27
			8	2.67	57	2	114
			10	10.1	41	2	82
			12	4.45	67	2	134
			8	8.15	41	2	82
			10	1.83	67	2	134
	FFs axis B C -2, 3		10	4.07	41	1	41
			12	2.89	24	1	24
			8	2.65	16	1	16
					Total lengt		
					w/m		
					N(k.g)		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3	stair care						
	and handine						
			14	2.45	12	1	12
			12	2.385	8	1	8
			12	5.415	8	1	8
			12	2.97	8	1	8
			14	3.17	12	1	12

			8	1.25	49	1	49
			10	1.25	41	1	41
			14	1.25	6	1	6
			14	2.475	12	1	12
			12	2.34	8	1	8
			14	3.14	12	1	12
			12	3.15	8	1	8
			8	1.25	46	1	46
			10	1.25	43	1	43
					Total length		
					w/m		
					N(k.g)		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars
3.3			8	1.25	49	1	49
			10	1.25	41	1	41
			14	1.25	6	1	6
			14	2.475	12	1	12
			12	2.34	8	1	8
			14	3.14	12	1	12

			12	3.15	8	1	8
			12	6.45	8	1	8
			8	1.25	46	1	46
			10	1.25	43	1	43
					Total length		
					w/m		
					N(k.g)		

Item	Location	Shape	Dia (mm)	Length (m)	No of bar pna membe	membe r (pcs)	Total No of bars

					Total length		
					w/m		
					N(k.g)		

Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø22
				3.75				
				11.4				
			10					
	31.2							
				2.67				
				17.8				
				16.4				
				49.2				
				16.2				
				13.6				
				10				
				22				
				5.665				
	94.8							
				17				
			15.6					
	48							
				26.7				
				16.4				
			36					
	142.8		51.6	127.57				
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			

	56.318	0	45.788					

Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø22
				16.5				
				17.1				
				30.9				
				36				
				3.33				
					17.1			
				3				
				16.5				
				30.9	30.9			
	94.8							
					7.98			
				36				
				28.35				
					30.9			
				17.1				
					8			
					74.8			

	94.8			235.68	169.68			
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	37.39			245.44	204.94			

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**
					109.5			
			20					
			15.6					
			13.6					
			15.6					
			16.4					
	80							
				17				
			15.6					
	54.6							
			3.65					
			20					
			13.6					
			16.24					
			15.6					
	80							

				17.4				
			16.4					
	58.8							
				10.8				
	273.4		182.3	45.2				
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	107.8		161.758	47.072				

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**
				5.66				
				16.4				
				5.7				
				14.7				
				18.5				
				16.4				
				15.4				
	79							
				14.7				
				2.95				
				16.4				
				18.8				
				23.1				

	110.6							
					10.5			
				20.04				
				28.71				
	57.4							
				6.4				
				12.5				
	247			124.7	10.5			
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	96.33			129.87	12.682			

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**
				4.6				
				7.6				
	19							
			285.6					
	19		285.6	12.2				
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			

	7.4933		253.431	12.705				

Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø22
			158					
	128							
					94.56			
					22			
	29							
					31.52			
					25			

	29							
				115.8				
				93.75				
	29							
				108.08				
				83.3				
	29							
				46.32				
				25				
	29							
	273		158	472.25	173.08			
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	107.67		140.204	491.8	209.05			

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**
		280.8						
		133.38						
	294.06							
		46.41						
		260.8						
		266.76						
	294.06							

		32.4						
	288.36							
		828.2						
			596.3					
	668.3							
		245.22						
	42.4							
	257.4							
	239.4							
	1496	1073.42	596.3					
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	589.94	661.468	529.135					

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**
				29.4				
			19.08					
			43.32					
			23.76					
				38.04				

	61.25							
		51.25						
				7.5				
				29.7				
			18.72					
				37.68				
			25.2					
	57.5							
		53.75						
	118.75	105	130.08	142.32				
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	46.833	64.68	139.267	194.78				

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**
	61.25							
		51.25						
				7.5				
				29.7				
			18.72					
				37.68				

			25.2					
		`	51.6					
	57.5							
		53.75						
	118.75	105.00	95.52	74.88				
	0.394	***0.61623***	***0.88736***	***1.0414***	***1.2078***			
	46.833	64.7036	84.761	77.982				

Ø6	**Ø8**	**Ø10**	**Ø12**	**Ø14**	**Ø16**	**Ø18**	**Ø20**	**Ø22**

	12694	1354.56	1693.1	1330.9				