

# **BILL OF QUANTITIES**

**PROJECT: QURANATINE FACILITY IN HULHUMALE'  
AT BLOCK NO: XX  
CLIENT: MINISTRY OF HEALTH**

APRIL 2015

**PROJECT: Quarantine Facility in Hulhumale'**  
**CONSTRUCTION OF A QUARANTINE FACILITY**  
**SUMMARY OF BILLS OF QUANTITIES**

SL.NO	BILL NAME	AMOUNT (MRF)
1 )	TOTAL OF BILL NO. 01 (PRELIMINARIES)	-
2 )	TOTAL OF BILL NO. 02 (GROUND WORKS)	-
3 )	TOTAL OF BILL NO. 03 (CONCRETE WORKS)	-
4 )	TOTAL OF BILL NO. 04 (MASONRY AND PLASTERING)	-
5 )	TOTAL OF BILL NO. 05 (METAL WORKS)	-
6 )	TOTAL OF BILL NO. 06 (ROOFING & WOOD WORKS)	-
7 )	TOTAL OF BILL NO. 07 (CEILINGS)	-
8 )	TOTAL OF BILL NO. 08 (DOORS AND WINDOWS)	-
9 )	TOTAL OF BILL NO. 9 (TILING WORKS)	-
10 )	TOTAL OF BILL NO. 10 (PAINTING)	-
11 )	TOTAL OF BILL NO. 11 (HYDRAULICS AND DRAINAGE)	-
12 )	TOTAL OF BILL NO. 12 (ELECTRICAL INSTALLATIONS)	-
13 )	TOTAL OF BILL NO. 13 (LIFT)	-
14 )	TOTAL OF BILL NO. 14 (FIRE FIGHTING)	-
15 )	TOTAL OF BILL NO. 15 (AIR CONDITIONING)	-
16 )	TOTAL OF BILL NO. 16 (ADDITIONS)	-
17 )	TOTAL OF BILL NO. 17 (OMISSIONS)	-
GRAND TOTAL		-

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SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 03</b>				
	<b>CONCRETE WORKS</b>				
	<b>General</b>				
	a) Rate shall include for: placing in position; making good after removal of formwork and casting in all required items; additional concrete required to conform to structural and excavated tolerances.				
	b) Mix ratio for reinforced concrete shall be 1:2:3				
1 )	Allow for concrete testing	1.00	item		-
3.1	<b>Lean Concrete</b>				
	100mm thick lean concrete under the footing with a mix as specified in specifications	937.50	m <sup>2</sup>		-
3.2	<b>Reinforced Concrete</b>				
	In-situ reinforced concrete to:				
	*Add water proofing compound / admixture to concrete mix for walls				
	GL and Roof Slabs				
3.2.1	<b>Foundation</b>				
1 )	Fuundation Pad P1	32.80	m <sup>3</sup>		-
2 )	Fuundation Pad P2	33.28	m <sup>3</sup>		-
3 )	Fuundation Pad P3	8.13	m <sup>3</sup>		-
4 )	Fuundation Pad P4	73.13	m <sup>3</sup>		-
5 )	Fuundation Pad P5	71.66	m <sup>3</sup>		-
6 )	Fuundation Pad P6	65.56	m <sup>3</sup>		-
7 )	Fuundation Pad JP1	42.92	m <sup>3</sup>		-
8 )	Fuundation Pad JP2	28.62	m <sup>3</sup>		-
9 )	Fuundation Pad JP3	35.36	m <sup>3</sup>		-
10 )	Foundation Beam FB1	127.50	m <sup>3</sup>		-
11 )	Columns C1, 350 X 500 mm upto GFFL	9.92	m <sup>3</sup>		-
12 )	Columns C2, 350 X 500 mm upto GFFL	7.72	m <sup>3</sup>		-
13 )	Columns C3, 350 X 500 mm upto GFFL	0.74	m <sup>3</sup>		-
14 )	Staircase upto Ground Floor Level	2.65	m <sup>3</sup>		-
15 )	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings	10.76	m <sup>3</sup>		-
16 )	Rain water tank as per the drawings (all)	135.00	m <sup>3</sup>		-
3.2.2	<b>Ground Floor</b>				
1 )	RCC Ground Slab 100 mm thick, (Rate shall include for reinforcement and shuttering required as per the drawings)	937.50	m <sup>3</sup>		-
2 )	Columns C1, 350 X 500	17.72	m <sup>3</sup>		-
3 )	Columns C2, 350 X 500	13.78	m <sup>3</sup>		-
4 )	Columns C3, 350 X 500	1.31	m <sup>3</sup>		-
5 )	Staircase upto Ground	4.73	m <sup>3</sup>		-
6 )	Lift walls 150 mm thick	19.21	m <sup>3</sup>		-
3.2.3	<b>First Floor</b>				
1 )	Attached beams B1, 500 X 300 mm	21.98	m <sup>3</sup>		-
2 )	Attached beams B2, 500 X 300 mm	4.52	m <sup>3</sup>		-
3 )	Attached beams B3, 500 X 300 mm	8.43	m <sup>3</sup>		-
4 )	Attached beams B4, 500 X 300 mm	6.50	m <sup>3</sup>		-
5 )	Attached beams B5, 500 X 300 mm	30.81	m <sup>3</sup>		-
9 )	Suspended slab, 200 mm thick	187.50	m <sup>3</sup>		-
10 )	Columns C1, 350 X 500	17.72	m <sup>3</sup>		-
11 )	Columns C2, 350 X 500	13.78	m <sup>3</sup>		-
12 )	Columns C3, 350 X 500	1.31	m <sup>3</sup>		-
14 )	Lift walls 150 mm thick	19.21	m <sup>3</sup>		-
15 )	RC Stair waist slab,steps incl. landings	11.81	m <sup>3</sup>		-
3.2.4	<b>Second Floor</b>				
1 )	Attached beams B1, 500 X 300 mm	20.41	m <sup>3</sup>		-
2 )	Attached beams B2, 500 X 300 mm	4.52	m <sup>3</sup>		-
3 )	Attached beams B3, 500 X 300 mm	8.43	m <sup>3</sup>		-
4 )	Attached beams B4, 500 X 300 mm	6.50	m <sup>3</sup>		-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
5 )	Attached beams B5, 500 X 300 mm	30.81	m <sup>3</sup>		-
6 )	Suspended slab, 200 mm thick	160.30	m <sup>3</sup>		-
7 )	Columns C1, 350 X 500	17.72	m <sup>3</sup>		-
8 )	Columns C2, 350 X 500	13.78	m <sup>3</sup>		-
9 )	Columns C3, 350 X 500	1.31	m <sup>3</sup>		-
10 )	Lift walls 150 mm thick	19.21	m <sup>3</sup>		-
11 )	RC Stair waist slab,steps incl. landings	11.81	m <sup>3</sup>		-
<b>3.2.5</b>	<b><u>Third Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm	20.27	m <sup>3</sup>		-
2 )	Attached beams B2, 500 X 300 mm	4.52	m <sup>3</sup>		-
3 )	Attached beams B3, 500 X 300 mm	7.60	m <sup>3</sup>		-
4 )	Attached beams B4, 500 X 300 mm	6.50	m <sup>3</sup>		-
5 )	Attached beams B5, 500 X 300 mm	30.81	m <sup>3</sup>		-
6 )	Suspended slab, 200 mm thick	160.30	m <sup>3</sup>		-
7 )	Columns C1, 350 X 500	17.72	m <sup>3</sup>		-
8 )	Columns C2, 350 X 500	13.78	m <sup>3</sup>		-
9 )	Columns C3, 350 X 500	1.31	m <sup>3</sup>		-
10 )	Lift walls 150 mm thick	19.21	m <sup>3</sup>		-
11 )	RC Stair waist slab,steps incl. landings	11.81	m <sup>3</sup>		-
<b>3.2.12</b>	<b><u>Roof Level &amp; lift Termination level</u></b>				-
1 )	Attached beams RB1, 500 X 300 mm	20.00	m <sup>3</sup>		-
2 )	Attached beams RB2, 500 X 300 mm	4.52	m <sup>3</sup>		-
3 )	Attached beams RB3, 500 X 300 mm	9.55	m <sup>3</sup>		-
4 )	Attached beams RB4, 500 X 300 mm	7.35	m <sup>3</sup>		-
5 )	Attached beams RB5, 500 X 300 mm	31.36	m <sup>3</sup>		-
6 )	Suspended slab, 200 mm thick	160.30	m <sup>3</sup>		-
7 )	Columns C1, 350 X 500	17.72	m <sup>3</sup>		-
8 )	Columns C2, 350 X 500	13.78	m <sup>3</sup>		-
9 )	Columns C3, 350 X 500	1.31	m <sup>3</sup>		-
10 )	Lift walls 150 mm thick	19.21	m <sup>3</sup>		-
11 )	RC Stair waist slab,steps incl. landings	11.81	m <sup>3</sup>		-
<b>3.3</b>	<b><u>Formwork</u></b>				-
	a) Rates shall include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, straps, ties, hangers, pipes, removal of formwork and normal practices used.				-
<b>3.2.1</b>	<b><u>Foundation</u></b>				-
1 )	Fuundation Pad P1	52.20	m2		-
2 )	Fuundation Pad P2	48.06	m2		-
3 )	Fuundation Pad P3	15.02	m2		-
4 )	Fuundation Pad P4	90.15	m2		-
5 )	Fuundation Pad P5	94.50	m2		-
6 )	Fuundation Pad P6	73.87	m2		-
7 )	Fuundation Pad JP1	23.95	m2		-
8 )	Fuundation Pad JP2	22.10	m2		-
9 )	Fuundation Pad JP3	22.56	m2		-
10 )	Foundation Beam FB1	735.56	m2		-
11 )	Columns C1, 350 X 500 mm upto GFFL	96.39	m2		-
12 )	Columns C2, 350 X 500 mm upto GFFL	74.97	m2		-
13 )	Columns C3, 350 X 500 mm upto GFFL	7.14	m2		-
14 )	Staircase upto Ground Floor Level	17.64	m2		-
15 )	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings	143.43	m2		-
16 )	Rain water tank as per the drawings (all)	135.00	m2		-
<b>3.2.2</b>	<b><u>Ground Floor</u></b>				-
1 )	RCC Ground Slab 100 mm thick, (Rate shall include for reinforcement and shuttering required as per the drawings)	13.68	m2		-
2 )	Columns C1, 350 X 500	172.13	m2		-
3 )	Columns C2, 350 X 500	133.88	m2		-
4 )	Columns C3, 350 X 500	12.75	m2		-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
5 )	Staircase upto Ground	31.50	m2		-
6 )	Lift walls 150 mm thick	256.13	m2		-
<b>3.2.3</b>	<b><u>First Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm	199.25	m2		-
2 )	Attached beams B2, 500 X 300 mm	40.98	m2		-
3 )	Attached beams B3, 500 X 300 mm	76.43	m2		-
4 )	Attached beams B4, 500 X 300 mm	58.90	m2		-
5 )	Attached beams B5, 500 X 300 mm	279.32	m2		-
9 )	Suspended slab, 200 mm thick	815.18	m2		-
10 )	Columns C1, 350 X 500	172.13	m2		-
11 )	Columns C2, 350 X 500	133.88	m2		-
12 )	Columns C3, 350 X 500	12.75	m2		-
14 )	Lift walls 150 mm thick	31.50	m2		-
15 )	RC Stair waist slab,steps incl. landings	256.13	m2		-
<b>3.2.4</b>	<b><u>Second Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm	185.06	m <sup>3</sup>		-
2 )	Attached beams B2, 500 X 300 mm	40.98	m <sup>3</sup>		-
3 )	Attached beams B3, 500 X 300 mm	86.96	m <sup>3</sup>		-
4 )	Attached beams B4, 500 X 300 mm	58.90	m <sup>3</sup>		-
5 )	Attached beams B5, 500 X 300 mm	279.32	m <sup>3</sup>		-
6 )	Suspended slab, 200 mm thick	815.18	m <sup>3</sup>		-
7 )	Columns C1, 350 X 500	172.13	m2		-
8 )	Columns C2, 350 X 500	133.88	m2		-
9 )	Columns C3, 350 X 500	12.75	m2		-
10 )	Lift walls 150 mm thick	31.50	m2		-
11 )	RC Stair waist slab,steps incl. landings	256.13	m2		-
<b>3.2.5</b>	<b><u>Third Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm	183.82	m <sup>3</sup>		-
2 )	Attached beams B2, 500 X 300 mm	40.98	m <sup>3</sup>		-
3 )	Attached beams B3, 500 X 300 mm	68.90	m <sup>3</sup>		-
4 )	Attached beams B4, 500 X 300 mm	58.90	m <sup>3</sup>		-
5 )	Attached beams B5, 500 X 300 mm	279.32	m <sup>3</sup>		-
6 )	Suspended slab, 200 mm thick	815.18	m <sup>3</sup>		-
7 )	Columns C1, 350 X 500	172.13	m2		-
8 )	Columns C2, 350 X 500	133.88	m2		-
9 )	Columns C3, 350 X 500	12.75	m2		-
10 )	Lift walls 150 mm thick	31.50	m2		-
11 )	RC Stair waist slab,steps incl. landings	256.13	m2		-
<b>3.2.12</b>	<b><u>Roof Level &amp; lift Termination level</u></b>				-
1 )	Attached beams RB1, 500 X 300 mm	181.32	m <sup>3</sup>		-
2 )	Attached beams RB2, 500 X 300 mm	40.98	m <sup>3</sup>		-
3 )	Attached beams RB3, 500 X 300 mm	86.56	m <sup>3</sup>		-
4 )	Attached beams RB4, 500 X 300 mm	66.65	m <sup>3</sup>		-
5 )	Attached beams RB5, 500 X 300 mm	284.34	m <sup>3</sup>		-
6 )	Suspended slab, 200 mm thick	160.30	m <sup>3</sup>		-
7 )	Columns C1, 350 X 500	17.72	m <sup>3</sup>		-
8 )	Columns C2, 350 X 500	13.78	m <sup>3</sup>		-
9 )	Columns C3, 350 X 500	1.31	m <sup>3</sup>		-
10 )	Lift walls 150 mm thick	19.21	m <sup>3</sup>		-
11 )	RC Stair waist slab,steps incl. landings	11.81	m <sup>3</sup>		-
<b>3.4</b>	<b><u>Reinforcement</u></b>				-
	a) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and chair supports, laps, and wastages.				-
<b>3.4.1</b>	<b><u>Foundation</u></b>				-
1	Foundation Pad P1 T20	348.00	m		-
2	Foundation Pad P2 T20	316.80	m		-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3	Fuundation Pad P3 T20	195.00	m		-
4	Fuundation Pad P4 T20	433.13	t		-
5	Fuundation Pad P5 T20	378.00	t		-
6	Fuundation Pad P6 T20	516.60	m		-
7	Fuundation Pad JP1 T20	2,732.32	m		-
8	Fuundation Pad JP2 T20	1,821.77	m		-
9	Fuundation Pad JP3 T20	2,251.03	m		-
10	Foundation Beam FB1 T20	4,707.55	m		-
	T10 in rings	15,038.01	m		-
11	Columns C1, 350 X 500 mm upto GFFL T25	33.60	m		-
	R6 in rings	14.28	m		-
12	Columns C2, 350 X 500 mm upto GFFL T20	33.60	m		-
	R6 in rings	14.28	m		-
15	Columns C3, 350 X 500 mm upto GFFL T16	33.60	m		-
	R6 in rings	14.28	m		-
16	Staircase upto Ground Floor Level	182.48	m		-
17	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings T12	2,967.52	m		-
18	Rain water tank as per the drawings (all) T12	5,044.78	m		-
<b>3.4.2</b>	<b><u>Ground Floor</u></b>				-
11	Columns C1, 350 X 500 mm upto GFFL T25	60.00	m		-
	R6 in rings	25.50	m		-
12	Columns C2, 350 X 500 mm upto GFFL T20	60.00	m		-
	R6 in rings	25.50	m		-
15	Columns C3, 350 X 500 mm upto GFFL T16	60.00	m		-
	R6 in rings	25.50	m		-
16	Staircase upto Ground Floor Level	325.87	m		-
17	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings T12	5,299.23	m		-
<b>3.4.3</b>	<b><u>First Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm 16 mm dia bars	1,054.87	m		-
	12 mm dia bars	351.62	m		-
	6 mm dia bars	7,032.48	m		-
2 )	Attached beams B2, 500 X 300 mm 20 mm dia bars	325.40	m		-
	6 mm dia bars	1,446.24	m		-
3 )	Attached beams B3, 500 X 300 mm 20 mm dia bars	472.08	m		-
	16 mm dia bars	67.44	m		-
	6 mm dia bars	2,697.60	m		-
4 )	Attached beams B4, 500 X 300 mm 16 mm dia bars	467.75	m		-
	6 mm dia bars	2,078.88	m		-
5 )	Attached beams B5, 500 X 300 mm 25 mm dia bars	1,478.74	m		-
	16 mm dia bars	739.37	m		-



SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
9 )	6 mm dia bars	9,858.24	m		-
	Suspended slab, 130 mm thick				-
10 )	10 mm dia bars	26,940.60	m		-
	Columns C1, 350 X 500 mm upto GFFL		m		-
	T25	60.00	m		-
	R6 in rings	25.50	m		-
11 )	Columns C2, 350 X 500 mm upto GFFL		m		-
	T20	60.00			-
	R6 in rings	25.50			-
12 )	Columns C3, 350 X 500 mm upto GFFL		m		-
	T16	60.00			-
	R6 in rings	25.50			-
	Staircase upto Ground Floor Level	325.87	m		-
13 )	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings		m		-
	T12	5,299.23			-
<b>3.4.4</b>	<b><u>Second Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm				-
	16 mm dia bars	979.70	m		-
	12 mm dia bars	326.57	m		-
	6 mm dia bars	6,531.36	m		-
2 )	Attached beams B2, 500 X 300 mm				-
	20 mm dia bars	325.40	m		-
	6 mm dia bars	1,446.24	m		-
3 )	Attached beams B3, 500 X 300 mm		m		-
	20 mm dia bars	537.10	m		-
	16 mm dia bars	76.73			-
	6 mm dia bars	3,069.12	m		-
4 )	Attached beams B4, 500 X 300 mm		m		-
	16 mm dia bars	467.75	m		-
	6 mm dia bars	2,078.88	m		-
5 )	Attached beams B5, 500 X 300 mm		m		-
	25 mm dia bars	1,478.74	m		-
	16 mm dia bars	739.37	m		-
	6 mm dia bars	9,858.24	m		-
6 )	Suspended slab, 130 mm thick				-
	10 mm dia bars	26,940.60	m		-
	Columns C1, 350 X 500 mm upto GFFL		m		-
7 )	T25	60.00	m		-
	R6 in rings	25.50	m		-
	Columns C2, 350 X 500 mm upto GFFL		m		-
8 )	T20	60.00			-
	R6 in rings	25.50			-
	Columns C3, 350 X 500 mm upto GFFL		m		-
9 )	T16	60.00			-
	R6 in rings	25.50			-
	Staircase upto Ground Floor Level	325.87	m		-
10 )	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings		m		-
	T12	5,299.23			-
<b>3.4.5</b>	<b><u>Third Floor</u></b>				-
1 )	Attached beams B1, 500 X 300 mm				-
	16 mm dia bars	973.15	m		-
	12 mm dia bars	324.38	m		-
	6 mm dia bars	6,487.68	m		-
2 )	Attached beams B2, 500 X 300 mm				-
	20 mm dia bars	325.40	m		-
	6 mm dia bars	1,446.24	m		-
3 )	Attached beams B3, 500 X 300 mm		m		-
	20 mm dia bars	425.54	m		-
	16 mm dia bars	60.79			-
	6 mm dia bars	2,431.68	m		-
4 )	Attached beams B4, 500 X 300 mm		m		-
	16 mm dia bars	467.75	m		-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
5 )	6 mm dia bars	2,078.88	m		-
	Attached beams B5, 500 X 300 mm		m		-
	25 mm dia bars	1,478.74	m		-
	16 mm dia bars	739.37	m		-
	6 mm dia bars	9,858.24			-
6 )	Suspended slab, 130 mm thick				-
	10 mm dia bars	26,940.60	m		-
	Columns C1, 350 X 500 mm upto GFFL		m		-
7 )	T25	60.00	m		
	R6 in rings	25.50	m		
	Columns C2, 350 X 500 mm upto GFFL		m		-
8 )	T20	60.00			
	R6 in rings	25.50			
	Columns C3, 350 X 500 mm upto GFFL		m		-
9 )	T16	60.00			
	R6 in rings	25.50			
	Staircase upto Ground Floor Level	325.87	m		-
	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings		m		-
10 )	T12	5,299.23			-
					-
					-
<b>3.4.12</b>	<b><u>Roof Level</u></b>				-
1 )	Attached beams RB1, 500 X 300 mm				-
	16 mm dia bars	959.90	m		-
	12 mm dia bars	319.97	m		-
	6 mm dia bars	6,399.36	m		-
2 )	Attached beams RB2, 500 X 300 mm				-
	20 mm dia bars	325.40	m		-
	6 mm dia bars	1,446.24	m		-
3 )	Attached beams RB3, 500 X 300 mm		m		-
	20 mm dia bars	534.66	m		-
	16 mm dia bars	76.38			-
	6 mm dia bars	3,055.20	m		-
4 )	Attached beams RB4, 500 X 300 mm		m		-
	16 mm dia bars	529.31	m		-
	6 mm dia bars	2,352.48	m		-
5 )	Attached beams RB5, 500 X 300 mm		m		-
	25 mm dia bars	1,505.30	m		-
	16 mm dia bars	752.65	m		-
	6 mm dia bars	10,035.36			-
6 )	Suspended slab, 130 mm thick				-
	10 mm dia bars	26,940.60	m		-
	Columns C1, 350 X 500 mm upto GFFL		m		-
7 )	T25	60.00	m		
	R6 in rings	25.50	m		
	Columns C2, 350 X 500 mm upto GFFL		m		-
8 )	T20	60.00			
	R6 in rings	25.50			
	Columns C3, 350 X 500 mm upto GFFL		m		-
9 )	T16	60.00			
	R6 in rings	25.50			
	Staircase upto Ground Floor Level	325.87	m		-
10 )	Lift walls 150 mm & 200 mm thick upto Ground Floor Level as per the drawings		m		-
	T12	5,299.23			-
					-
<b>3.5</b>	<b><u>OTHER CONCRETE WORKS</u></b>				-
1 )	1800mm dia RC Ground water well as per the instruction given in the drawing including all necessary pipe connections and all related works.	1.00	no		-
2 )	Lintel Beam as per the specifications and drawings	1.00	Item		-
3 )	Sill Beam as per the specifications and drawings	1.00	Item		-
4 )	RCC balcony parapet walls 1000 mm height and 100 mm thick as shown in drawings at First Floor to Fifth Floor	1.00	m		-

[illegible]

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 04</b>				
	<b><u>MASONRY AND PLASTERING</u></b>				
4.1	<b><u>General</u></b>				
	a) Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good.				
4.2	<b><u>Cement block work</u></b>				
4.2.1	150mm wide solid blocks, laid on and incl. 1:5 Cement Mortar, tie rods, compression gap filler, nylon / plastic mesh as specified. <u>All External walls</u>				
1 )	Below Ground	513.23	m <sup>2</sup>		-
2 )	Ground Floor	393.23	m <sup>2</sup>		-
3 )	First Floor	364.78	m <sup>2</sup>		-
4 )	Second Floor	414.67	m <sup>2</sup>		-
5 )	Third Floor	408.34	m <sup>2</sup>		-
11 )	Roof & Terrace	260.53	m <sup>2</sup>		-
4.2.2	150mm wide solid blocks, laid on and incl. 1:5 Cement Mortar, tie rods, compression gap filler, nylon / plastic mesh as specified. <u>All Internal walls</u>				
1 )	Below Ground	516.55	m <sup>2</sup>		-
2 )	Ground Floor	967.13	m <sup>2</sup>		-
3 )	First Floor	855.56	m <sup>2</sup>		-
4 )	Second Floor	1,114.03	m <sup>2</sup>		-
5 )	Third Floor	1,091.89	m <sup>2</sup>		-
11 )	Roof & Terrace	907.20	m <sup>2</sup>		-
4.3	<b><u>Plastering</u></b>				
4.3.1	a) 25mm cement plastering on external walls and concrete surfaces with 1:4 Cement mortar mix as specified incl. wire mesh at joints of concrete surfaces and walls (first,second coats).				
1 )	Below Ground	1,026.46	m <sup>2</sup>		-
2 )	Ground Floor	786.45	m <sup>2</sup>		-
3 )	First Floor	729.55	m <sup>2</sup>		-
4 )	Second Floor	829.33	m <sup>2</sup>		-
5 )	Third Floor	816.67	m <sup>2</sup>		-
11 )	Roof & Terrace	521.06	m <sup>2</sup>		-
4.3.2	a) 15mm cement plastering on internal walls and concrete surfaces with 1:4 Cement mortar mix as specified incl. wire mesh at joints of concrete surfaces and walls (one coat).				
1 )	Ground Floor	1,033.10	m <sup>2</sup>		-
2 )	First Floor	1,934.25	m <sup>2</sup>		-
3 )	Second Floor	1,711.13	m <sup>2</sup>		-
4 )	Third Floor	2,228.06	m <sup>2</sup>		-
10 )	Roof & Terrace	2,183.78	m <sup>2</sup>		-
4.4	<b><u>Cement Screed Finish</u></b>				
4.4.1	35mm thick Cement screeding on the concrete floor with 1:4 cement mortar mix incl. trowel finish; General Areas				
1 )	Ground Floor	674.59	m <sup>2</sup>		-
2 )	First Floor	1,006.58	m <sup>2</sup>		-
3 )	Second Floor	1,045.32	m <sup>2</sup>		-
4 )	Third Floor	986.14	m <sup>2</sup>		-
10 )	Roof & Lift Machine Room		m <sup>2</sup>		-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
4.4.2	25mm thick Cement screeding on the concrete floor with 1:4 cement mortar				-
	mix incl. trowel finish; Staircase, Toilet, balconies and Terrace areas				-
1 )	Ground Floor	98.35	m <sup>2</sup>		-
2 )	First Floor	96.88	m <sup>2</sup>		-
3 )	Second Floor	90.05	m <sup>2</sup>		-
4 )	Third Floor	146.52	m <sup>2</sup>		-
10 )	Roof and terrace	25.00	m <sup>2</sup>		-
					-
4.4.3	75mm thick Cement screeding on the concrete floor with 1:4 cement mortar				-
	mix incl. trowel finish; Roof and Terrace				-
					-
1 )	terrace and top of lift shafts	54.17	m <sup>2</sup>		-
					-
<b>TOTAL OF BILL NO. 04 (MASONRY AND PLASTERING)</b>					-
<i>(CARRIED OVER TO THE GENERAL SUMMARY)</i>					-

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SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 06</b> <b><u>ROOFING &amp; WOODWORKS</u></b>				
6.1	<b><u>General</u></b> a) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails and screws. b) Rate shall include for: timber priming and all painting as specified in the drawing				
6.2	<b><u>Roof Framing &amp; Coverings</u></b>				
1 )	50 X 150 mm timber hard wood rafters at 600 mm c/c	2,011.67	m		-
	51 X 100 mm timber hard wood battens at 600 mm c/c	2,011.67	m		-
2 )	50 X 200 mm timber fascia board	65.60	m		-
3 )	150 X 250 mm Lysaught Gutter	109.30	m		-
4 )	End Flashing	65.60	m		-
5 )	75 mm thick Heat Insulation with Aluminium Foil on both sides, including the wire mesh	1,207.00	m <sup>2</sup>		-
6 )	Lyaught or MSP Equivalent Roofing sheets	1,207.00	m <sup>2</sup>		-
					-
					-
					-
					-
					-
					-
<b>TOTAL OF BILL NO. 06 (ROOFING &amp; WOOD WORKS)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

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SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8.1	<b>Bill No: 08</b> <b>DOORS AND WINDOWS</b> <b>General</b> a) Rates shall include for: locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware. b) All Aluminium windows shall be white powder coated aluminium. c) All timber doors shall be solid timber paneled door with varnish finish. d) All glazing shall be 6mm Tinted (Profiles to be chosen by client).				
8.2	<b>Doors</b>				
1 )	D1	4.00	nos		-
2 )	D2	11.00	nos		-
3 )	D3	4.00	nos		-
4 )	D4	1.00	nos		-
	D4a	2.00	nos		-
1 )	D5	1.00	nos		-
2 )	D6	65.00	nos		-
3 )	D6a	20.00	nos		-
4 )	D7	86.00	nos		-
5 )	D8	44.00	nos		-
	D8a	8.00	nos		-
	D9	24.00	nos		-
	D10	14.00	nos		-
	D11	4.00	nos		-
8.4	<b>Window Units</b>				-
1 )	Window W1	30.00	nos		-
2 )	Window W2	19.00	nos		-
	Window W2a	5.00	nos		-
	Window W2b	2.00	nos		-
3 )	Window W3	21.00	nos		-
	Window W3a	4.00	nos		-
4 )	Window W4	13.00	nos		-
	Window W4a	-	nos		-
5 )	Window W5	14.00	nos		-
6 )	Window W6	24.00	nos		-
	Window W6a	2.00	nos		-
7 )	Window W7	4.00	nos		-
8 )	Window W8	11.00	nos		-
9 )	Window W9	5.00	nos		-
10 )	Window W10	3.00	nos		-
11 )	Window W11	1.00	nos		-
12 )	Window W12	1.00	nos		-
13 )	Window W13	1.00	nos		-
8.5	Others				-
1 )	F1	63.00	nos		-
	F2	6.00	nos		-
					-
					-
<b>TOTAL OF BILL NO. 08 (DOORS AND WINDOWS)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 9</b>				
	<b><u>TILING WORKS</u></b>				
9.1	<b><u>General</u></b> a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. b) Rates shall include for all other beading works required at the corneres				
9.2	<b><u>Floor Tiling (general areas)</u></b> 600 X 600 mm Ceramic tiles with 100 mm skirting				
1 )	Ground Floor	674.59	m <sup>2</sup>		-
2 )	First Floor	1,006.58	m <sup>2</sup>		-
3 )	Second Floor	1,045.32	m <sup>2</sup>		-
4 )	Third Floor	986.14	m <sup>2</sup>		-
9.3	<b><u>Floor tiling (toilets)</u></b> 200 x 200 Non Slip Ceramic tiles:				
1 )	Ground Floor	68.94	m <sup>2</sup>		-
2 )	First Floor	67.47	m <sup>2</sup>		-
3 )	Second Floor	60.65	m <sup>2</sup>		-
4 )	Third Floor	117.11	m <sup>2</sup>		-
9.4	<b><u>Wall tiling (toilets)</u></b> 200 x 250 Polished Ceramic Tiles upto Ceiling height				
1 )	Ground Floor	390.57	m <sup>2</sup>		-
2 )	First Floor	534.79	m <sup>2</sup>		-
3 )	Second Floor	496.76	m <sup>2</sup>		-
4 )	Third Floor	741.37	m <sup>2</sup>		-
9.5	<b><u>Ceramic Tiles in Stair steps</u></b> Non slip Ceramic Tiles with PVC nosing & 100 mm skirting, including the lading areas				
1 )	Ground Floor	36.76	m <sup>2</sup>		-
2 )	First Floor	37.50	m <sup>2</sup>		-
3 )	Second Floor	37.50	m <sup>2</sup>		-
4 )	Third Floor	37.50	m <sup>2</sup>		-
9.6	<b><u>Tiling on terrace and balconies</u></b> 300 x 300 Ceramic Rustic / terra-cotta tiles with 100mm high skirting				
3 )	Third Floor	70.00	m <sup>2</sup>		-
9.7	<b><u>Tiling over kitchen tops and walls</u></b> 600 x 600 Glazed Ceramic Tiles:				
1 )	Ground Floor	28.75	m <sup>2</sup>		-
2 )	First Floor	26.25	m <sup>2</sup>		-
3 )	Second Floor	28.75	m <sup>2</sup>		-
4 )	Third Floor	28.75	m <sup>2</sup>		-
<b>TOTAL OF BILL NO. 9 (TILING WORKS)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

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SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 11</b> <b><u>HYDRAULICS &amp; DRAINAGE</u></b>				
11.1	<b><u>General</u></b> a) Rates shall include for: sockets, running joints, connections, elbows, junctions, reducers, expansion joints; backnuts and similar; incidental fittings, clips, saddles, brackets, straps, hanges, screws, nails and fixing complete, including cutting and				
11.2	<b><u>Ground water supply pipework</u></b> Allow for water connection to fixtures from ground water well.	1.00	item		-
11.3	<b><u>Fresh water supply pipework</u></b> 1 ) Allow for water connection to fixtures from MWSC mains	1.00	item		-
	2 ) Allow for water connection for rain water supply	1.00	item		-
	3 ) Supply and fixing MWSC fresh water mains (meters)	2.00	nos		-
11.4	<b><u>Sanitary Fixtures &amp; Accessories</u></b> Sanitary Fixtures complete including brackets flush pipes, overflows and washers etc.				-
	1 ) All toilet fittings shall be "Cotto" or equivalent - chrome plated				-
	2 ) All toilet fixtures shall be "Cotto" or equivalent brand.				-
	3 ) All piping shall be of UPVC				-
	4 ) All kitchen sinks shall be of SS type with chrome plated taps.				-
	5 ) All water pumps shall be of "Davie Jet" brand or equivalent.				-
1 )	Water Closet	76.00	nos		-
2 )	Wash basin	76.00	nos		-
3 )	Wash basin tap	76.00	nos		-
4 )	Muslim Shower	76.00	nos		-
5 )	Floor waste with gully trap	186.00	nos		-
6 )	Head shower	66.00	nos		-
7 )	SS Sink incl. concrete base and masonry support walls.	44.00	nos		-
8 )	Sink Tap	44.00	nos		-
9 )	Mirror with accessories	76.00	nos		-
10 )	Water Taps / Faucet	142.00	nos		-
11 )	Valves	272.00	nos		-
11.5	<b><u>Pumping System</u></b> Supply and installation of water pump complete including connecting valves to pipework and electricity as per requirements.				-
1 )	Well water pump	2.00	nos		-
2 )	MWSC booster water pump (with stand by pump)	1.00	Item		-
11.6	<b><u>Drainage</u></b> <b><u>Discharge pipework</u></b>				-
1 )	Complete Discharge pipe work including the vetn pipes	1.00	item		-
2 )	Connecting to MWSC sewer mains	1.00	item		-
3 )	Constructing Inspection Chamber of required size with all provisions to connect pipelines as per drawing.	23.00	nos		-
<b>TOTAL OF BILL NO. 11 (HYDRAULICS AND DRAINAGE)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 12</b>				
	<b><u>ELECTRICAL AND IT INSTALLATIONS</u></b>				
12.1	<b><u>General</u></b> a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories. b) Rate shall include for electrical conduits, fittings, equipment and similar all fixings c) Each light / light fixture and its switches shall measure as one one point: similarly each sockets or each fans shall measured as one point. d) Rate shall include for supply and complete installation of all floors.  e) Provide junction box for each separate unit of telephone and cable tv system.				
12.2	<b><u>Main Connection</u></b> Allow for three phase main connection from STELCO board to Panel board from STELCO Transformer / Road DB	1.00	item		-
12.3	<b><u>Electrical boards</u></b> Complete installation incl. for all connection earthing, painting, testing and similar of;				-
1 )	Main panel board including all meters	1.00	Item		-
2 )	Distribution boards	1.00	nos		-
12.4	<b><u>Electrical wiring</u></b> Electrical wiring with copper conductor cable in conduits in walls and slab as specified to				-
1 )	2.5mm2 Wiring to light fixtures, fans and its switches	1,231.00	points		-
2 )	Wiring to Socket Switches	633.00	points		-
3 )	Cabling to Distribution boards	40.00	points		-
4 )	Cabling to Telephone sockets	520.00	points		-
5 )	Cabling to Television sockets	228.00	points		-
12.5	<b><u>Fans</u></b>				-
1 )	Ceiling fans "USHA" or equivalent 1200 mm dia	138.00	nos		-
2 )	Fan dimmer	138.00	nos		-
3 )	Wall mount fans	12.00	nos		-
12.6	<b><u>Lighting and others</u></b>				-
1 )	Ceiling mount light	651.00	nos		-
2 )	Wall mount light	216.00	nos		-
3 )	Weather proof ceiling mount light	28.00	nos		-
4 )	Weather proof wall mount light	16.00	nos		-
5 )	Emergency Light	182.00	nos		-
12.7	<b><u>Socket outlets</u></b> All sockets shall be "Clipsal"or equivalent				-
1	13 Amps Socket Switch double	361.00	nos		-
2 )	13 Amps Socket Switch double	178.00	nos		-
4 )	15 Amps Socket Switch	76.00	nos		-
5 )	15 Amps Sockets switch single (W)	18.00	nos		-
6 )	Telephone Socket	520.00	nos		-
7 )	Television Socket	228.00	nos		-
12.8	<b><u>Light Switches</u></b> All switches shall be "Clipsal"or equivalent				-
1 )	One Way switches	1,049.00	nos		-
2 )	Two Way switches	76.00	nos		-
12.9	<b><u>Closed circuit IR capable IP based security camera system, with camera numbers as given and shown on drawing</u></b>				
12.9.1	External perimeter	12.00	nos		
12.9.1	Ground floor	28.00	nos		
12.9.2	First Floor	29.00	nos		
12.9.3	Second Floor	34.00	nos		
12.9.4	Third floor	28.00	nos		

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
12.1	<b><u>Closed circuit video conferencing system from 16 isolation rooms in 3rd floor to family room;</u></b>				
12.10.1	nodes	17.00	nos		
12.11	Broadband capable wired internet connection as shown on drawings				
12.11.1	Ground floor	20.00	nos		
12.11.2	First Floor	20.00	nos		
12.11.3	Second Floor	20.00	nos		
12.11.4	Third floor	22.00	nos		
<b>TOTAL OF BILL NO. 12 (ELECTRICAL INSTALLATIONS)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 13</b>				
	<b>LIFT</b>				
13.1	<b>General</b> a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories. b) Rate shall include for electrical conduits, fittings, equipment and similar all fixings c) Rate shall include for all necessary electrical wiring and accessories required for completion of lift installation.				
13.2	<b>LIFTS</b> Supply and install lift complete: "Mitsubishi, to lift 11 person capacity, serving all levels (4 floors) as per manufacturer's instructions.	2.00	no		-
	Supply and install lift complete: "Mitsubishi medical stretcher acrier , to lift 300kg capacity, serving all levels (4 floors) as per manufacturer's instructions.	2.00	nos		-
					-
					-
					-
<b>TOTAL OF BILL NO. 13 (LIFT)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 14</b> <b><u>FIRE FIGHTING</u></b>				
14.1	<b><u>General</u></b> a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories. b) Rate shall include for electrical conduits, fittings, pumps, control boards and other equipment and similar all fixings c) Rate shall include for all necessary electrical wiring and accessories required for completion of fire fighting system installation in accordance with the drawings, specification and NSS regulations				
14.2	<b><u>Dry riser system and Alarm System</u></b>				
1 )	Dry riser pipe work system as per the drawings	1.00	Item		-
2 )	Inlet for dry risers	4.00	Nos		-
3 )	Outlet for dry risers	12.00	Nos		-
4 )	Air Release Valve	12.00	Nos		-
5 )	Control panel for fire alarm	1.00	Nos		-
6 )	Manual call point for fire alarm system	24.00	Nos		-
7 )	Loop sounder for fire alarm system	24.00	Nos		-
8 )	Smoke detector for fire alarm system	228.00	Nos		-
10 )	CO2 Extinguisher	228.00	Nos		-
11 )	DCP Extinguisher	228.00	Nos		-
12 )	Fire Blanket	8.00	Nos		-
					-
					-
14.3	<b><u>HOSE REEL SYSTEM (WET RISER)</u></b>				
1)	Wet riser Pipe system as per the drawings and local authority regulations	1.00	Item		-
2)	Pump system	2.00	Nos		-
3)	Hose Reels 30 m length	12.00	Nos		-
					-
					-
					-
					-
					-
<b>TOTAL OF BILL NO. 14 (FIRE FIGHTING)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-



SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>Bill No: 15</b> <b><u>AIR CONDITIONING</u></b>				
15.1	<b><u>General</u></b> a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories. b) Rate shall include for electrical conduits, fittings, pumps, control boards and other equipment and similar all fixings c) Rate shall include for all necessary electrical wiring and accessories required for completion of fire fighting system installation in accordance with the drawings, specification and NSS regulations				
15.2	<b><u>Individually Controlled Units</u></b>  Isolatable cassette system, or split type aircondition units, each cassette, outdoor units for each floor in recesses provided, each unit capable of delivering 24,000 BTU exchange				
15.2.1	Ground floor	28.00	nos		
15.2.2	First Floor	29.00	nos		
15.2.3	second floor	34.00	nos		
15.2.4	3rd floor	28.00	nos		
	<b><u>Central pressured air cooling system</u></b> Central airconditioning system to 3rd floor isolation corridors, with air delivery system to maintain 1.2bar pressure continuously, while delivering cooling from ambient 32degrees celcius to 25 degrees celcius				
15.3.1	unit1	150.00	m3		
15.3.2	unit2	150.00	m3		
15.3.3	unit3	150.00	m3		
15.3.4	unit4	150.00	m3		
<b>TOTAL OF BILL NO. 15 (AIR CONDITIONING)</b> (CARRIED OVER TO THE GENERAL SUMMARY)					-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Bill No: 16</u></b> <b><u>ADDITIONS</u></b>				
Bill No: 01					
Bill No: 02					
Bill No: 03					
Bill No: 04					
Bill No: 05					
Bill No: 06					
Bill No: 07					
Bill No: 08					
Bill No: 09					
Bill No: 10					
Bill No: 11					
Bill No: 12					
Bill No: 13					
Bill No: 14					
Bill No: 15					
TOTAL OF BILL NO. 16 (ADDITIONS) (CARRIED OVER TO THE GENERAL SUMMARY)					-

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Bill No: 17</u> <u>OMISSIONS</u>				
Bill No: 01					
Bill No: 02					
Bill No: 03					
Bill No: 04					
Bill No: 05					
Bill No: 06					
Bill No: 07					
Bill No: 08					
Bill No: 09					
Bill No: 10					
Bill No: 11					
Bill No: 12					
Bill No: 13					
Bill No: 14					
Bill No: 15					
TOTAL OF BILL NO. 17 (OMISSIONS) (CARRIED OVER TO THE GENERAL SUMMARY)					-