Bill No. 1	GROUND	WORKS
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Item No.	Description	Unit	Qty
1.1	GENERAL (a) Rates shall include for: levelling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, additional working space and disposing surplus soil.		
1.2	 EXCAVATION AND FILLING (a) Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork , back fill , dewatering and others (b) Rates shall include for: levelling, grading, trimming and compacting. (c) Ground need to be compacted to the density required by the consultant 1) Toilet & Shortage Building, Foundation Beam 2) Boundary Wall, Tie Beam 3) P, Planter-A, Foundation Beam 4) Name Board Foundation Pad 5) Sand Pit Boundary Wall 6) Mural Wall Foundation 7) Bench Foundation Pad 8) Planter Box and Vine Trills Footing 	m ³ m ³ m ³ m ³ m ³ m ³ m ³ m ³	3.79 34.62 19.05 1.43 8.50 3.70 6.12 1.82
1.3	 WATER PROOFING MEMBRANE (a) Rates shall include for: dressing around and sealing to all penetrations, laps and turnups. 1) Polythene damp proof membrane (500gauge) laid under blinding layer Water proof membrane to sides of pads, beams and walls below floor level 	m ² m ²	216.86 372.76
	Total of bill No.1 (Carried to summa	arv of Bills)	

Item No.	Description	Unit	Qty
2.1	GENERAL		
	CONCRETE		
	(a) Rates 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 and lean concrete shall be 1:2:6 by		
	volume.		
	(c) Quantity is measured to the edges of		
	concrete foundation members. Rates shall be		
	inclusive for any additional concrete		
	required to place the formwork.		
	(d) Desalinated water shall be used for all		
	purposes, ground water shall not be used.		
	FORM WORK		
	(a) Exposed surface shall have fair finish while		
	remaining may have rough finish.		
	(b) Timber used for unexposed concrete surface		
	shall sound dressed and seasoned good quality		
	common timber while for exposed concrete		
	surfaces dressed and matched boards uniformly		
	thick and not more than 251mm wide.		
	c) Plywood used for forms shall be of		
	commercial standard, moisture resistance		
	concrete form plywood not less than 6mm thick		
	and at least 12mm thick.		
	(d) Rates shall include for; all necessary		
	boarding, supports, erecting, framing,		
	temporary cambering cutting, perforations for		
	reinforcing bars, bolts, straps, ties, hangers,		
	pipes and removal of formwork.		

REINFORCEMENT WORK (a) Main reinforcement steel shall be high tensile steel hot rolled deformed bars complying with BS 1119 or BS 1172 Characteristic strength not less than 160N/mm2. (b) Stirrups shall be hot rolled mild steel round		
bars complying with BS 1119, Characteristic strength not less than 250N/mm2		
(c) Rates shall include for; distribution steel, cleaning, fabrication, placing, the provision for all necessary temporary fixings, and supports including chairs and tie wire, laps and wastage.		
Subtotal of bill No.2 (Carried to Coll	lection Page)	

Item No.	Description	Unit	Qty
2.2	LEAN CONCRETE		
2.2.1	50mm thick lean concrete below Foundation		
1)	Toilet & Shortage Building, Foundation Beam	m²	6.32
2)	Boundary Wall, Tie Beam	m²	57.70
3)	P, Planter-A, Foundation Beam	m²	31.76
4)	Name Board Foundation Pad	m²	2.38
5)	Sand Pit Boundary Wall	m²	13.08
6)	Mural Wall Foundation	m²	6.17
7)	Bench Foundation Pad	m²	30.26
8)	Planter Box and Vine Trills Footing	m²	2.80
2.2.2	150mm thick lean concrete below Curbs		
1)	Curb B	m²	156.22
2)	Curb C	m²	7.05
2.3	REINFORCED CONCRETE		
2.3.1	Toilet & Shortage Building		
2.3.1.1	Foundation Beams		
1)	FB1, 200mm x 400mm	m ³	2.53
2.3.1.2	<u>Columns</u>		
1)	C1, 200mm x 200mm	m³	0.76

2.3.1.3 <u>Beams</u>	3	1.0
1) B1, 200mm x 350mm	m ³ m ³	0.5
2) B2, 200mm x 350mm	m ³	0.5
2.3.1.4 Floor Slab		
1) 100mm thk Ground Floor Slab	m ³	2.2
2.3.1.5 <u>RC Wall</u>		
1) 150mm thk 1200mm high Parapet Wall	m³	0.6
2.3.2 Boundary Wall		
2.3.2.1 Foundation Beams		
1) FB2, 225mm x 225mm	m³	10.4
2) FB2, 225mm x 225mm	m ³	2.5
2.3.2.2 Main Columns		
1) C1, 200mm x 200mm	m ³	3.4
2) C1, 200mm x 200mm	m ³	0.7
2.3.2.3 <u>Stiffer Columns</u>		
1) SC1, 150mm x 100mm	m ³	0.2
2) SC1, 150mm x 100mm	m ³	0.0
2.3.2.4 <u>Capping Beams</u>		
1) CB1, 100mm x 75mm	m³	1.5
2) CB1, 100mm x 75mm	m³	0.3
Subtotal of bill No.2 (Carried to Co	ollection Page)	

Bill No. 2	CONCRETE WORKS

Item No.	Description	Unit	Qty
2.3	REINFORCED CONCRETE CONT'D		
2.3.	3 <u>P, Planter-A</u>		
2.3.3.	1 <u>Strip Foundation</u>		
1) SF1, 400mm x 225mm	m³	5.72
2.3.3.	2 Wall		
1) 100mm thk 800mm High Wall	m ³	7.21

2.3.4	Name Board			
2.3.4.1	Strip Foundation			
1)	SF2, 750mm x 200mm	m³	0.42	
2.3.4.2	Wall			
1)	150mm thk 1400mm High Wall	m ³	1.16	
	Sand Pit Area Boundary Wall			
	Strip Foundation			
1)	SF3, 400mm x 200mm	m ³	2.09	
2.3.5.2				
1)	100mm thk 350mm High Wall	m³	2.09	
2.3.6	Mural Wall			
2.3.6.1	Strip Foundation			
	SF2, 750mm x 200mm	m ³	1.09	
2.3.6.2	Wall			
	150mm thk 1800mm High Wall	m³	2.39	
2.3.7	Other Concrete Works			
2.3.7.1	Benches			
1)	P, A1, 2200mm x 425mm	m³	6.46	
2)	P, C1, 1150mm x 450mm	m³	11.19	
3)	P, C2, 1700mm x 500mm	m³	5.94	
	Planter Box and Vine Trills Footing			
,	F1, 5000mm x 700mm	m ³	2.80	
2)	100mm thk 800mm High Wall	m ³	2.30	
2.3.7.3	Curbs			
1)	CR B, 100mm x 300mm	m³	26.78	
2)	CR C, 100mm x 200mm	m³	0.81	
2.4	FORM WORK			
	Toilet & Shortage Building			
2.4.1.1	Foundation Beams			
1)	FB1, 200mm x 400mm	m²	25.29	
2.4.1.2	<u>Columns</u>			
	C1, 200mm x 200mm	m²	15.12	
2/12	Beams_			
	B1, 200mm x 350mm	m²	13.97	
1)		I I	15.77	

2) B2, 200mm x 350mm	m²	7.18		
Subtotal of bill No.2 (Carried to Collection Page)				

em No.	Description	Unit	Qty
2.4	FORM WORK CONT'D		
	1.4 Floor Slab		
	1) 100mm thk Ground Floor Slab	m²	4.34
		111	4.54
2.4.	1.5 <u>RC Wall</u>		
	1) 150mm thk 1200mm high Parapet Wall	m²	7.93
2.4	4.2 Boundary Wall		
	2.1 Foundation Beams		
	1) FB2, 225mm x 225mm	m²	92.90
	2) FB2, 225mm x 225mm	m²	22.50
2.4.2	2.2 <u>Main Columns</u>		
	1) C1, 200mm x 200mm	m²	69.22
	2) C1, 200mm x 200mm	m²	14.83
2.4.2	2.3 <u>Stiffer Columns</u>		
	1) SC1, 150mm x 100mm	m²	9.53
	2) SC1, 150mm x 100mm	m²	3.09
2.4.2	2.4 <u>Capping Beams</u>		
	1) CB1, 100mm x 75mm	m²	30.97
	2) CB1, 100mm x 75mm	m²	7.50
2.4	4.3 <u>P, Planter-A</u>		
2.4.	3.1 <u>Strip Foundation</u>		
	1) SF1, 400mm x 225mm	m²	28.58
2.4.	3.2 Wall		
	1) 100mm thk 800mm High Wall	m²	144.18
2.4	4.4 Name Board		
	4.1 Strip Foundation		
	1) SF2, 750mm x 200mm	m²	1.12

2.4.4.2 1)	<u>Wall</u> 150mm thk 1400mm High Wall	m²	15.41	
2.4.5	Sand Pit Area Boundary Wall			
2.4.5.1	Strip Foundation			
1)	SF3, 400mm x 200mm	m²	10.47	
2.4.5.2				
1)	100mm thk 350mm High Wall	m²	41.87	
2.4.6	Mural Wall			
2.4.6.1	Strip Foundation			
1)	SF2, 750mm x 200mm	m²	2.90	
2.4.6.2	Wall			
1)	150mm thk 1800mm High Wall	m²	31.93	
Subtotal of bill No.2 (Carried to Collection Page)				

Item No.	Description	Unit	Qty
2.4	FORM WORK CONT'D		
2.4	.7 Other Concrete Works		
2.4.7	.1 <u>Benches</u>		
1) P, A1, 2200mm x 425mm	m²	70.03
2	2) P, C1, 1150mm x 450mm	m²	124.13
	3) P, C2, 1700mm x 500mm	m²	61.50
2.4.7	.2 Planter Box and Vine Trills Footing		
1) F1, 5000mm x 700mm	m²	11.52
2	2) 100mm thk 800mm High Wall	m²	31.10
2.4.7	.3 <u>Curbs</u>		
1) CR B, 100mm x 300mm	m²	535.60
2	2) CR C, 100mm x 200mm	m²	16.12
2.5	REINFORCEMENT		
2.5	.1 <u>Toilet & Shortage Building</u>		

2.5.1.1 <u>Foundation Beams</u> 1) FB1, 200mm x 400mm		
12mm dia, Steel deformed bars 6m	kg	178.0
6mm dia, Steel deformed bars 6m	kg	74.0
2.5.1.2 <u>Columns</u>		
1) C1, 200mm x 200mm		
12mm dia, Steel deformed bars 6m	kg	93.0
6mm dia, Steel deformed bars 6m	kg	13.0
2.5.1.3 <u>Beams</u>		
1) B1, 200mm x 350mm		
12mm dia, Steel deformed bars 6m	kg	74.0
12mm dia, Steel deformed bars 6m	kg	35.0
2) B2, 200mm x 350mm		
12mm dia, Steel deformed bars 6m	kg	28.0
12mm dia, Steel deformed bars 6m	kg	9.0
2.5.1.4 Floor Slab		
1) 100mm thk Ground Floor Slab		
10mm dia, Steel deformed bars 6m	kg	182.0
2.5.1.5 <u>RC Wall</u>		
1) 150mm thk 1200mm high Parapet Wall		
10mm dia, Steel deformed bars 6m	kg	65.0
2.5.2 Boundary Wall		
2.5.2.1 Foundation Beams		
1) FB2, 225mm x 225mm		
10mm dia, Steel deformed bars 6m	kg	559.0
6mm dia, Steel deformed bars 6m	kg	152.0
2) FB2, 225mm x 225mm		
10mm dia, Steel deformed bars 6m	kg	135.0
6mm dia, Steel deformed bars 6m	kg	37.0
Subtotal of bill No.2 (Carried to Col	lection Page)	

Bill No. 2	CONCRETE WORKS		
Item No.	Description	Unit	Qty

	<u>REINFORCEMENT CONT'D</u> Main Columns_		
	C1, 200mm x 200mm		
1)		lag	296.00
	10mm dia, Steel deformed bars 6m	kg	60.00
	6mm dia, Steel deformed bars 6m	kg	00.00
2)	C1, 200mm x 200mm		
	10mm dia, Steel deformed bars 6m	kg	63.00
	6mm dia, Steel deformed bars 6m	kg	13.00
2.5.2.3	<u>Stiffer Columns</u>		
1)	SC1, 150mm x 100mm		
	10mm dia, Steel deformed bars 6m	kg	34.00
	6mm dia, Steel deformed bars 6m	kg	3.00
2)	SC1, 150mm x 100mm		
	10mm dia, Steel deformed bars 6m	kg	10.00
	6mm dia, Steel deformed bars 6m	kg	1.00
2.5.2.4	Capping Beams		
1)	CB1, 100mm x 75mm		
	10mm dia, Steel deformed bars 6m	kg	280.00
	6mm dia, Steel deformed bars 6m	kg	33.00
2)	CB1, 100mm x 75mm		
	10mm dia, Steel deformed bars 6m	kg	68.00
	6mm dia, Steel deformed bars 6m	kg	8.00
2.5.3	P, Planter-A		
	Strip Foundation		
	SF1, 400mm x 225mm		
,	10mm dia, Steel deformed bars 6m	kg	435.00
2.5.3.2	Wall		
	100mm thk 800mm High Wall		
-)	10mm dia, Steel deformed bars 6m	kg	371.00
2.5.4	Name Board		
	Strip Foundation		
	SF2, 750mm x 200mm		
1)	10mm dia, Steel deformed bars 6m	kg	19.00
7517	Wall		
2.5.4.2			
	150mm thk 1400mm High Wall		116.00
	10mm dia, Steel deformed bars 6m	kg	116.00

2.5.5	Sand Pit Area Boundary Wall		
2.5.5.1	Strip Foundation		
1)	SF3, 400mm x 200mm		
	10mm dia, Steel deformed bars 6m	kg	157.00
2.5.5.2	Wall		
1)	100mm thk 350mm High Wall		
	10mm dia, Steel deformed bars 6m	kg	118.00
	Subtotal of bill No.2 (Carried to Coll	lection Page)	

Item No.	Description	Unit	Qty
2.5	REINFORCEMENT CONT'D		
2.5.6	Mural Wall		
2.5.6.1	Strip Foundation		
1)	SF2, 750mm x 200mm		
	10mm dia, Steel deformed bars 6m	kg	48.00
2.5.6.2	Wall		
1)	150mm thk 1800mm High Wall		
	10mm dia, Steel deformed bars 6m	kg	294.00
2.5.7	Other Concrete Works		
2.5.7.1	Benches		
1)	P, A1, 2200mm x 425mm		
	12mm dia, Steel deformed bars 6m	kg	798.00
	6mm dia, Steel deformed bars 6m	kg	22.00
2)	P, C1, 1150mm x 450mm		
	12mm dia, Steel deformed bars 6m	kg	1,268.00
	6mm dia, Steel deformed bars 6m	kg	52.00
3)	P, C2, 1700mm x 500mm		
	12mm dia, Steel deformed bars 6m	kg	654.00
	6mm dia, Steel deformed bars 6m	kg	21.00
2.5.7.2	Planter Box and Vine Trills Footing		
	F1, 5000mm x 700mm		
, í	12mm dia, Steel deformed bars 6m	kg	97.00

	6mm dia, Steel deformed bars 6m	kg	14.00
2)	100mm thk 800mm High Wall 10mm dia, Steel deformed bars 6m	kg	95.00
	Subtotal of bill No.2 (Carried to Coll	lection Page)	

Item No.	Description	Unit	Qty
	Collection Page		
	Bill No. 2 Page No. 1		
	Bill No. 2 Page No. 2		
	Bill No. 2 Page No. 3		
	Bill No. 2 Page No. 4		
	Bill No. 2 Page No. 5		
	Bill No. 2 Page No. 6		
	Bill No. 2 Page No. 7		
	Total of bill No.2 (Carried to summary of Bills)		