

Bill No. 1 GROUND WORKS

Item No.	Description	Unit	Qty
1.1	<u>GENERAL</u> (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	<u>EXCAVATION AND FILLING</u> (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)	Bench, Foundation Beam	m ³	27.37
2)	PP, Planter-A, Foundation Beam	m ³	3.06
1.3	<u>WATER PROOFING MEMBRANE</u> (a) Rates shall include for: dressing around and sealing to all penetrations, laps and turnups.		
1)	Water proof membrane to sides of pads, beams and walls below floor level	m ²	166.24
Total of bill No.1 (Carried to summary of Bills)			

Bill No. 2

CONCRETE WORKS

Item No.	Description	Unit	Qty
2.1	<p><u>GENERAL</u></p> <p><u>CONCRETE</u></p> <p>(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.</p> <p>(b) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:2:6 by volume.</p> <p>(c) Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork.</p> <p>(d) Desalinated water shall be used for all purposes, ground water shall not be used.</p> <p><u>FORM WORK</u></p> <p>(a) Exposed surface shall have fair finish while remaining may have rough finish.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>		

	<p style="text-align: center;"><u>REINFORCEMENT WORK</u></p> <p>(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.</p> <p>(b) Stirrups shall be hot rolled mild steel round bars complying with BS 1119, Characteristic strength not less than 250N/mm²</p> <p>(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.</p>		
Subtotal of bill No.2 (Carried to Collection Page)			

Bill No. 2 CONCRETE WORKS

Item No.	Description	Unit	Qty
2.2	<u>LEAN CONCRETE</u>		
2.2.1	<u>50mm thick lean concrete below Foundation</u>		
1)	Bench, Foundation Beam	m ²	42.11
2)	PP, Planter-A, Foundation Beam	m ²	5.10
2.3	<u>REINFORCED CONCRETE</u>		
2.3.1	<u>Benches</u>		
2.3.1.1	<u>PP, Bench A, Foundation Beams</u>		
1)	SF6, 750mm x 225mm	m ³	1.35
2)	SF7, 400mm x200mm	m ³	1.04
2.3.1.2	<u>PP, Bench A, RC Wall</u>		
1)	200mm thk 800mm high Wall	m ³	2.49
2)	100mm thk 800mm high Wall	m ³	1.46
2.3.1.3	<u>PP, Bench B, Foundation Beams</u>		
1)	SF6, 750mm x 225mm	m ³	1.69
2)	SF7, 400mm x200mm	m ³	1.00
2.3.1.4	<u>PP, Bench B, RC Wall</u>		
1)	200mm thk 800mm high Wall	m ³	3.13
2)	100mm thk 800mm high Wall	m ³	1.41
2.3.1.5	<u>PP, Bench C, Foundation Beams</u>		

1)	SF6, 750mm x 225mm	m ³	1.61
2)	SF7, 400mm x200mm	m ³	0.95
2.3.1.6	<u>PP, Bench C, RC Wall</u>		
1)	200mm thk 800mm high Wall	m ³	2.98
2)	100mm thk 800mm high Wall	m ³	1.34
2.3.2	<u>PP, Planter-A</u>		
2.3.2.1	<u>Strip Foundation</u>		
1)	SF1, 400mm x 225mm	m ³	0.92
2.3.2.2	<u>Wall</u>		
1)	100mm thk 800mm High Wall	m ³	1.16
2.3.3	<u>Area Paving</u>		
2.3.3.1	<u>Floor Slab</u>		
1)	100mm thk Ground Floor Slab	m ³	30.43
2.4	<u>FORM WORK</u>		
2.4.1	<u>Benches</u>		
2.4.1.1	<u>PP, Bench A, Foundation Beams</u>		
1)	SF6, 750mm x 225mm	m ²	4.27
2)	SF7, 400mm x200mm	m ²	5.51
2.4.1.2	<u>PP, Bench A, RC Wall</u>		
1)	200mm thk 800mm high Wall	m ²	25.39
2)	100mm thk 800mm high Wall	m ²	29.68
Subtotal of bill No.2 (Carried to Collection Page)			

Bill No. 2 CONCRETE WORKS

Item No.	Description	Unit	Qty
2.4	<u>FORM WORK CONT'D</u>		
2.4.1.3	<u>PP, Bench B, Foundation Beams</u>		
1)	SF6, 750mm x 225mm	m ²	4.85
2)	SF7, 400mm x200mm	m ²	5.17
2.4.1.4	<u>PP, Bench B, RC Wall</u>		
1)	200mm thk 800mm high Wall	m ²	30.90

2)	100mm thk 800mm high Wall	m ²	28.44
2.4.1.5	<u>PP, Bench C, Foundation Beams</u>		
1)	SF6, 750mm x 225mm	m ²	4.63
2)	SF7, 400mm x200mm	m ²	4.91
2.4.1.6	<u>PP, Bench C,RC Wall</u>		
1)	200mm thk 800mm high Wall	m ²	29.42
2)	100mm thk 800mm high Wall	m ²	26.96
2.4.2	<u>PP, Planter-A</u>		
2.4.2.1	<u>Strip Foundation</u>		
1)	SF1, 400mm x 225mm	m ²	4.77
2.4.2.2	<u>Wall</u>		
1)	100mm thk 800mm High Wall	m ²	23.37
2.5	<u>REINFORCEMENT</u>		
2.5.1	<u>Benches</u>		
2.5.1.1	<u>PP, Bench A, Foundation Beams</u>		
1)	FB1, 750mm x 225mm 12mm dia, Steel deformed bars 6m	kg	158.69
2)	SF7, 400mm x200mm 12mm dia, Steel deformed bars 6m	kg	96.56
2.5.1.2	<u>PP, Bench A, RC Wall</u>		
1)	200mm thk 800mm high Wall 12mm dia, Steel deformed bars 6m	kg	361.39
2)	100mm thk 800mm high Wall 12mm dia, Steel deformed bars 6m	kg	358.29
2.5.1.3	<u>PP, Bench B, Foundation Beams</u>		
1)	FB1, 750mm x 225mm 12mm dia, Steel deformed bars 6m	kg	194.13
2)	SF7, 400mm x200mm 12mm dia, Steel deformed bars 6m	kg	92.17
2.5.1.4	<u>PP, Bench B, RC Wall</u>		
1)	200mm thk 800mm high Wall 12mm dia, Steel deformed bars 6m	kg	443.76
2)	100mm thk 800mm high Wall 12mm dia, Steel deformed bars 6m	kg	342.16

Subtotal of bill No.2 (Carried to Collection Page)			

Bill No. 2 CONCRETE WORKS

Item No.	Description	Unit	Qty
2.5	<u>REINFORCEMENT CONT'D</u>		
2.5.1.5	<u>PP, Bench C, Foundation Beams</u>		
1)	FB1, 750mm x 225mm 12mm dia, Steel deformed bars 6m	kg	184.98
2)	SF7, 400mm x200mm 12mm dia, Steel deformed bars 6m	kg	87.79
2.5.1.6	<u>PP, Bench C, RC Wall</u>		
1)	200mm thk 800mm high Wall 12mm dia, Steel deformed bars 6m	kg	422.60
2)	100mm thk 800mm high Wall 12mm dia, Steel deformed bars 6m	kg	325.91
2.5.2	<u>PP, Planter-A</u>		
2.5.2.1	<u>Strip Foundation</u>		
1)	SF1, 400mm x 225mm 10mm dia, Steel deformed bars 6m	kg	139.60
2.5.2.2	<u>Wall</u>		
1)	100mm thk 800mm High Wall 10mm dia, Steel deformed bars 6m	kg	100.09
2.5.3	<u>Area Paving</u>		
2.5.3.1	<u>Floor Slab</u>		
1)	100mm thk Ground Floor Slab 12mm dia, Steel deformed bars 6m	kg	2,725.69
Subtotal of bill No.2 (Carried to Collection Page)			

Bill No. 2 CONCRETE WORKS

Item No.	Description	Unit	Qty
----------	-------------	------	-----

	<u>Collection Page</u> Bill No. 2 Page No. 1 Bill No. 2 Page No. 2 Bill No. 2 Page No. 3 Bill No. 2 Page No. 4		
Total of bill No.2 (Carried to summary of Bills)			