

BILLS OF QUANTITIES
CIVIL WORKS FOR HANDBALL COURT

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 01					
<u>PRELIMINARIES</u>					
	Plot Area (1500 m ²)				
	1.1 <u>GENERAL NOTES</u>				
	(1) <u>Abbreviations</u>				
	m - metre				
	nos - numbers				
	m ³ - cubic metre				
	m ² - square metre				
	t - tonne				
	kg - kilogram				
	incl. - including				
	mm - millimetre				
	SS - Stainless Steel				
	GI - Galvanised Steel				
	1.2 <u>SITE MANAGEMENT COSTS</u>				
	(1) Allow for all on and off site management cost including costs of foreman and assistants	1.00	item		
	1.3 <u>SAFETY ON SITE</u>				
	(1) Providing & maintaining adequate safety measure on site for all workers & all authorized visitors on site & protecting adjoining properties & people against falling objects or other with regard to the construction works	1.00	item		
	1.4 <u>PLANTS & MACHINERY</u>				
	(1) Provision & maintenance of all necessary temporary plants, machineries & scaffolding that is required for the completion of the project	1.00	item		
	1.5 <u>SERVICES & FACILITIES</u>				
	(1) Provision & maintenance of services & facilities such as water, power supply, lighting & fuel required for the project.	1.00	item		
	1.6 <u>SIGN BOARD</u>				
	(1) Allow for sign board	1.00	item		
	1.7 <u>TEMPORARY FENCING & HOARDING</u>				
	(1) Supply, erect & maintenance of a fence through out the construction period & hoarding all along the perimeter of the site		item		
BILL No: 01 PRELIMINARIES					
TOTAL OF BILL No: 01 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 02					
<u>GROUND WORKS</u>					
2.1	<u>GENERAL</u> Note: Rates shall include for: levelling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing surplus soil				
2.2	<u>SITE CLEARING</u>				
(1)	Clearing site	1.00	item		
2.3	<u>EXCAVATION</u> Note: Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork/shuttering and dewatering the trenches for the required days.				
(1)	Excavation for foundation beams	8.00	m ³		
2.4	<u>FILLING</u> Notes: Rates shall include for: levelling, grading, trimming and compacting				
(1)	Sand blinding layer to receive damp proof membrane	4.80	m ²		
(2)	Earth filling in ground floor (300mm above ground level)	1.92	m ³		
(3)	Compacting Turf area	800.00	m ³		
2.5	<u>WATER PROOFING</u> Note: Rates shall include for: dressing around and sealing to avoid all penetrations				
(1)	Apply 2 coats of Brush Bond or similar on foundation rafts, strip beams & tie beams, steps and under ground masonry & concrete walls in accordance with manufacturer's instructions	4.80	m ²		
BILL No: 02 - GROUND WORKS					
TOTAL OF BILL No: 02 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 03					
<u>CONCRETE</u>					
3.1	<u>GENERAL</u> (a) Rates shall include for: provision to place in position; casting of all required items and finishing after removal of formwork and additional concrete required to conform to structural and excavated tolerances (b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc. (c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:3:6 by volume				
3.2	<u>LEAN CONCRETE</u> Note: Quantity is measured with additional 0.1m to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork. (1) 50mm thick lean concrete to bottom of raft foundation or strip footing and beams				
	<u>Concrete Volume</u>	8.00	m ³		
	Cement	40.00	bags		
	River sand	80.00	bags		
	Coarse aggregate	160.00	bags		
3.3	<u>REINFORCED CONCRETE</u> (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 wastage (b) All reinforcing bars except 6mm dia bars shall be high strength deformed bars (c) The exact length inclusive of laps are given. The rates shall take into account any wastage. In-situ reinforced concrete to:				
3.3.1	<u>Foundation Column Stubs</u> (1) Columns Stumps C1				
	<u>Concrete Volume</u>	8.95	m ³		
	Cement	81.00	bags		
	River sand	162.00	bags		
	Coarse aggregate	243.00	bags		
	Concrete chemical Rheomix 141	1.34	litres		
	Water proofing material	13.00	litres		
	<u>Formwork.</u>	38.02	m ²		
	200mm dia PVC Pipe 6m	14.00	nos		
	Mould oil	6.00	litres		
	<u>Reinforcement. (Upto bar length 6m)</u>				
	6mm. dia, 600mm. high tensile steel bars (6T6)	0.04	t		
	6mm. dia, 600mm. Ring bars (R6@250)	0.05	t		

Item	Description	Qty	Unit	Rate	Total Amount
(2)	Columns Stumps C2 for Lightposts				
	<u>Concrete Volume</u>	1.58	m ³		
	Cement	15.00	bags		
	River sand	30.00	bags		
	Coarse aggregate	45.00	bags		
	Concrete chemical Rheomix 141	0.24	litres		
	Water proofing material	3.00	litres		
	<u>Formwork.</u>	10.56	m ²		
	200mm dia PVC Pipe 6m	4.00	nos		
	Mould oil	2.00	litres		
	<u>Reinforcement. (Upto bar length 6m)</u>				
	12mm. dia, 600mm. high tensile steel bars (4T12)	0.03	t		
	6mm. dia, 600mm. Ring bars (R6@250)	0.00	t		
3.3.2	<u>Water Drain Gutters</u>				
(1)	Gutter 80mm thick concrete U shaped 600 x 600 x 1200	16.00	nos		
	<u>Concrete Volume</u>	2.76	m ³		
	Cement	25.00	bags		
	River sand	50.00	bags		
	Coarse aggregate	75.00	bags		
	Concrete chemical Rheomix 141	0.41	litres		
	Water proofing material	4.00	litres		
	<u>Formwork.</u>	5.53	m ²		
	12mm thick plywood	2.00	nos		
	50mm x 50mm timber	0.12	m ³		
	Nails	0.29	kg		
	Mould oil	1.00	litres		
	<u>Reinforcement.</u>				
	12mm. dia, 6m. high tensile steel bar (2T12)	0.06	t		
(1)	Gutter Lid 80mm thick concrete 780 x 1200	16.00	nos		
	<u>Concrete Volume</u>	1.20	m ³		
	Cement	11.00	bags		
	River sand	22.00	bags		
	Coarse aggregate	33.00	bags		
	Concrete chemical Rheomix 141	0.18	litres		
	Water proofing material	2.00	litres		
	<u>Formwork.</u>	2.40	m ²		
	12mm thick plywood	1.00	nos		
	50mm x 50mm timber	0.06	m ³		
	Nails	0.14	kg		
	Mould oil	1.00	litres		
	<u>Reinforcement.</u>				
	12mm. dia, 6m. high tensile steel bar (2T12)	0.03	t		
BILL No: 03 - CONCRETE					
TOTAL OF BILL No: 03 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 04					
<u>METAL WORKS</u>					
4.1 GENERAL	<p>Note: (a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts including those securing timbers, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws.</p> <p>(b) Rates shall include for all painting and finishing as specified</p> <p>(c) Rates shall include for fabrication and erection and temporary supports and fixing into position</p> <p>(d) All GI Pipe works should be 2.5mm Thick with smooth finish at joints.</p> <p>(e) The contractor shall submit the detail of the Garbage chute and get the approval from the Consultant before fixing it in position</p>				
4.2 STRUCTURE					
4.2.1 Boundary Wall					
	GI Pipe 50mmØ Columns upto 3000mm @3000 Fixed into Columns Stubs	162.00	m		
	GI Pipe 50mmØ Horizontal x 3 Fixed to Columns by Weld	480.00	m		
	PVC Coated Cross Wire Mesh for Fence Rombus shape 25 x 25 Fold link	379.20	m ²		
BILL No: 04 - METAL WORKS					
TOTAL OF BILL No: 04 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 05					
<u>MASONRY AND PLASTERING</u>					
5.1	<u>GENERAL</u> Note: 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 flashing, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good. Providing approved quality mesh at joints between structural members and masonry in the exterior walls				
5.2	<u>SOLID BLOCK WORK</u>				
(1)	<u>Court Boundary</u>				
	Masonry area	79.20	m ²		
	Bricks	1,822.00	nos		
	Cement for block placing	12.00	bags		
	River Sand	60.00	bags		
BILL No: 05 - MASONRY & PLASTERING					
TOTAL OF BILL No: 05 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL N0: 06					
<u>DOORS AND WINDOWS</u>					
6.1 GENERAL	Notes: (a) Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware and these materials should brass and of superior quality. (b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boarding, framing, lining, fastenings and all fixings (c) Rates shall include for all painting				
	6.2 <u>TIMBER DOORS, ALUMINIUM DOORS AND WINDOWS</u>				
(1)	G1 (2100 x 2000) GI 50mm dia Frame with GI Gate, Brushed metal (Silver) Hinges x 5 on each flap, Lock Latch x1	3.00	nos		
BILL N0: 06 -DOORS AND WINDOWS					
TOTAL OF BILL No: 06 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL NO: 07					
<u>FINISHES</u>					
7.1 GENERAL	Note: Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.				
7.2 TURF INSTALLATIONS	Supply and installation of infilled artificial grass with manufactures instructions and Allow for infill materials which are silica sand a as described				
	Turf Specification (ISO Standard or equivalent)				
	Dtex:9600				
	Pile Height: 22 mm				
	Stitches./m: 310s/m (density: 32,500/sqm)				
	Color: Red/Light Blue/Dark Blue				
	Gauge: 3/8 inch				
	Grassy Yam: Fabrillated PE				
	Backing: PP+Net & SBR Latex				
7.2.1 Handball Court					
(1) Floor area (turf yarn size 22mm)		1,125.00	m ²		
(2) Silica Sand for Infill (0.2-1.0mm) (washed dried cleaned and processed)		10.40	Tons		
(3) Seaming Tape (30cm wide)		1,383.42	m		
(4) Adhesive Pu bi-component		44.00	set		
(5) Marking the court as per drawings as specs.		1.00	item		
BILL NO: 07 - FINISHES					
TOTAL OF BILL No: 07 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL N0: 08					
<u>HYDRAULICS & DRAINAGE</u>					
8.4	<u>DRAINAGE</u>				
8.4.1	<u>Preamble notes</u>				
	(b) All pipework shall be UPVC				
	(1) Excavation, Concrete Gutters 600 x 600 x 1200 Tickness 80mm, with Concrete Grill Lid 100mm thickness 780 x 2500mm 16nos	12.00	item		
BILL No:08 - HYDRAULIC AND DRAINAGE					
TOTAL OF BILL No: 08 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 09					
<u>PAINTING</u>					
9.1	<u>GENERAL</u> Note: (a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door window furniture (b) All painting work shall be carried in accordance with the Specifications (c) Emulsion paint finish after grinding the area and applying putty.				
9.2	<u>WALLS</u> Enamel paint finish after grinding the area and applying putty and exterior walls should be applied with weather proof paint				
9.2.1	<u>Boundary Fence</u>				
(1)	Exterior Painting area	101.74	m ²		
	Red Oxide	23.00	litres		
	Enamel paint	32.00	litres		
9.2.2	<u>Gates</u>				
(1)	Exterior Painting area	5.00	m ²		
	Enamel paint	2.00	litres		
9.2.3	<u>Pitch Marking</u>				
(1)	Exterior Painting area	3.00	m ²		
	Enamel paint	1.00	litres		
BILL No: 09 - PAINTING					
TOTAL OF BILL No: 09 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 10					
<u>ELECTRICAL INSTALLATIONS</u>					
10.1	<u>GENERAL</u> (a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories (b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil (c) Rates for electrical conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces (d) Light end and switch end of wiring together measured as one point (e) A point wiring for power points is measured as one point for each socket outlet; other end of wire is not included in the quantity. (f) Rates shall include for supply and complete installation (g) Rates shall include special electrical works, lift and air conditioning system (h) Three phase power supply				
10.2	<u>ELECTRICAL BOARDS</u> (1) Complete installation, including for all connections, earthing, painting, testing and similar of: Single phase main panel board with connections from the mains including meters, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification (2) Panel Board	1.00 1.00	item nos		
10.3	<u>ELECTRICAL WIRING</u> (1) Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each level. (2) <u>ELECTRICAL FIXTURES</u> Main Distribution board 400W LED High Mast Sports Pitch Lights 52000Lumen	1.00 1.00 8.00	item nos nos		
BILL No: 10 - ELECTRICAL INSTALLATION					
TOTAL OF BILL No: 10 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Total Amount
BILL No: 11					
<u>EQUIPMENT & FURNITURE</u>					
11.1	<p><u>GENERAL</u> Rates shall include for supply & installation.</p> <p>The goals are 2m high and 3m wide. The goal posts are joined by a horizontal crossbar. The rear side of the goal posts are in line with the rear edge of the goal line. The goal posts and the crossbar have an 8cm square cross section. standard goal post.</p>	2.00	nos		
BILL No: 11 -EQUIPMENT & FURNITURE					
TOTAL OF BILL No: 11 - Carried over to summary					

SUMMARY BILLS OF QUANTITIES
CIVIL WORKS FOR HANDBALL COURT (SPORTS CENTER)

CLIENT: MYSCE

Bill No	Description	Amount
1	PRELIMINARIES	
2	GROUND WORKS	
3	CONCRETE	
4	METAL WORKS	
5	MASONRY AND PLASTERING	
6	DOORS AND WINDOWS	
7	FINISHES	
8	HYDRAULICS & DRAINAGE	
9	PAINTING	
10	ELECTRICAL INSTALLATION	
11	EQUIPMENT & FURNITURE	
TOTAL		
GST 6.00 %		
GRAND TOTAL		

NOTE : 1) Masonry, plastering & Screeding works
quoted with Manufactured sand.

Duration :