

**BILLS OF QUANTITIES
OF BADMINTON COURT THREE**

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL No: 01								
<u>PRELIMINARIES</u>								
1.1	<u>GENERAL NOTES</u>							
(1)	<u>Abbreviations</u> m - metre Nos - numbers m ³ - cubic metre m ² - square metre lm - Linear metre kg - Kilograms incl. - including mm - millimetre SS - Stainless Steel GI - Galvanised steel							
1.2	Allow for setting out the work	1.00	item					
1.3	<u>SITE MANAGEMENT COSTS</u>							
(1)	Allow for all on and off site management cost including costs of foreman and assistants	1.00	item					0.00
1.4	<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					0.00
1.5	<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					0.00
1.6	<u>SERVICES & FACILITIES</u>							
(1)	Provision & maintenance of services & facilities such as water, power supply, lighting & fuel required for the project.	1.00	item					0.00
1.7	<u>SIGN BOARD</u>							
(1)	Allow for sign board	1.00	item					0.00
1.8	<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	1.00	item					0.00
BILL No: 01 PRELIMINARIES								0.00
TOTAL OF BILL No: 01 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	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. Site clearance measured with external works							
2.2	<u>SITE PREPARATION</u>							
(1)	Site clearance	1.00	Item					
(2)	Allow for removal of top soil in building area up to thickness of 150mm on existing ground level and removal of all debris away from the site	940.00	m ²					0.00
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 footing	45.30	m ³					0.00
(2)	Excavation for foundation beams	20.01	m ³					0.00
2.4	<u>FILLING</u> Notes: Rates shall include for: levelling, grading, trimming and compacting							
(1)	Earth filling in ground floor (250mm above ground level)	752.00	m ³					0.00
2.5	<u>ANTI TERMITE TREATMENT</u>							
(1)	Anti termite treatment shall be in accordance with the manufacture's specification and to the approval of Consultant by specialize sub contractor. Anti termite treatment to be spray the area of construction.	1.00	Item					0.00
BILL No: 02 - GROUND WORKS								0.00
TOTAL OF BILL No: 02 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	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>	36.24	m ²					
	Cement	17.00	bags					
	River sand	34.00	bags					
	Coarse aggregate	68.00	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:							
3.2.1	<u>Foundation</u> (1) Foundation Pad F1							
	<u>Concrete Volume</u>	9.72	m ³					0.00
	Cement	88.00	bags					
	River sand	176.00	bags					
	Coarse aggregate	264.00	bags					
	Concrete chemical Rheomix 141	1.46	litres					
	Water proofing material	15.00	litres					
	<u>Formwork</u>	23.76	m ²					0.00
	12mm thick plywood	9.00	nos					
	50mm x 50mm timber	0.54	m ³					
	Nails	1.30	kg					
	Mould oil	4.00	litres					
	<u>Reinforcement</u>							
	12mm. dia, 6m. high tensile steel bar (T12 @200 c/c)	0.36	t					0.00
(2)	Foundation Pad F2							
	<u>Concrete Volume</u>	1.15	m ³					
	Cement	11.00	bags					
	River sand	22.00	bags					
	Coarse aggregate	33.00	bags					
	Concrete chemical Rheomix 141	0.17	litres					
	Water proofing material	2.00	litres					
	<u>Formwork</u>	5.76	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					

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
	<u>Reinforcement.</u> 12mm. dia, 6m. high tensile steel bar (T12 @200 c/c)	0.06	t					
3.2.2	<u>Columns</u>							
(1)	Columns C1							
	<u>Concrete Volume</u>	19.52	m ³					0.00
	Cement	176.00	bags					
	River sand	352.00	bags					
	Coarse aggregate	528.00	bags					
	Concrete chemical Rheomix 141	2.93	litres					
	Water proofing material	29.00	litres					
	<u>Formwork.</u>	37.00	m ²					0.00
	12mm thick plywood	13.00	nos					
	50mm x 50mm timber	0.78	m ³					
	Nails	1.87	kg					
	Mould oil	6.00	litres					
	<u>Reinforcement.</u>							
	20mm. dia, 6m. high tensile steel bar (8T20)	0.48	t					0.00
	6mm. dia, 6m. Ring bars (R6@100)	0.11	t					0.00
(2)	Columns C2							
	<u>Concrete Volume</u>	0.84	m ³					
	Cement	8.00	bags					
	River sand	16.00	bags					
	Coarse aggregate	24.00	bags					
	Concrete chemical Rheomix 141	0.13	litres					
	Water proofing material	2.00	litres					
	<u>Formwork.</u>	11.16	m ²					
	12mm thick plywood	4.00	nos					
	50mm x 50mm timber	0.24	m ³					
	Nails	0.58	kg					
	Mould oil	2.00	litres					
	<u>Reinforcement.</u>							
	20mm. dia, 6m. high tensile steel bar (8T20)	0.18	t					
	6mm. dia, 6m. Ring bars (R6@100)	0.02	t					
3.2.3	<u>Beams</u>							
(1)	Tie beam	173.85	m					
	<u>Concrete Volume</u>	21.73	m ³					0.00
	Cement	196.00	bags					
	River sand	392.00	bags					
	Coarse aggregate	588.00	bags					
	Concrete chemical Rheomix 141	3.26	litres					
	Water proofing material	32.00	litres					
	<u>Formwork.</u>	173.85	m ²					0.00
	12mm thick plywood	61.00	nos					
	50mm x 50mm timber	3.66	m ³					
	Nails	8.78	kg					
	Mould oil	26.00	litres					
	<u>Reinforcement.</u>							
	16mm. dia, 6m. high tensile steel bar (6T10)	3.04	t					0.00
	06mm. dia, 6m. Ring bars (R6@100)	0.58	t					0.00
3.2.4	<u>Slabs</u>							
(1)	Floor Slab (100mm thickness)	940.00	m ²					0.00
	<u>Concrete Volume</u>	94.00	m ³					
	Cement	846.00	bags					
	River sand	1,692.00	bags					
	Coarse aggregate	2,538.00	bags					
	Concrete chemical Rheomix 141	14.10	litres					
	Water proofing material	136.00	litres					

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
	<u>Formwork.</u>	12.00	m ²					0.00
	12mm thick plywood	5.00	nos					
	50mm x 50mm timber	0.30	m ³					
	Nails	0.72	kg					
	Mould oil	2.00	litres					
	<u>Reinforcement.</u>							
	10mm. dia, 6m. high tensile steel bar (Bottom T10@150 c/c bothways)	5.760	t					0.00
BILL No: 03 - CONCRETE								0.00
TOTAL OF BILL No: 03- Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL No: 04								
<u>MASONRY AND PLASTERING</u>								
4.1	<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							
4.2	<u>DRY WALL PARTITIONS</u>							
1.0	Wall area							
	Type 1 (150mm Thkness)	119.55	m ²					
	Type 2 (50mm Thkness)	16.22	m ²					
4.3	<u>FLOORING</u> Cement sand screeding on the floor as specified on.							
(1)	<u>External steps and ramps</u> 50 mm thick screed in the floor							
	Cement sand screed Area	57.81	m ²					0.00
	Cement	26.00	bags					
	River sand	130.00	bags					
BILL No: 04 - MASONRY & PLASTERING								0.00
TOTAL OF BILL No: 04 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL No: 05								
<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	69.20	m ²					0.00
(2)	1000 Gauge polythene under ground floor slab	940.00	m ²					0.00
(3)	Toilet areas	21.86	m ²					0.00
BILL No: 05 - WATER PROOFING								0.00
TOTAL OF BILL No: 05 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL No: 06								
<u>STRUCTURAL STEEL WORKS</u>								
6.1	<u>GENERAL</u> 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. (b) Rates shall include for all finishings as specified (c) Rates shall include for fabrication and erection and temporary supports and fixing into position							
6.2	<u>H iron steel columns</u>							
(1)	Column C1	7,935.87	kg					
(2)	Column C2	4,221.06	kg					
(3)	M36 bolts in columns	98.00	Nos					
(4)	Supply and install of 560x260x 30 mm thk ms base plate in columns	18.00	Nos					
6.3	<u>H iron steel beam</u>							
	Beam length	67.90	m					
	Steel	7,808.50	Kg					
6.4	<u>Roof</u>							
(1)	Roof trusses with UB stiffeners, stiffener plates, CHS and all other accessories as per the drawings and specifications	23,129.40	Kg					
(2)	76x 4mm bracings	7,832.96	Kg					
(3)	Supply and install gutter as per the drawings and specifications	69.60	m					
(4)	M30 bolts for roof	344.00	Nos					
(5)	Supply and install of Down pipes with necessary items	199.20	m					
BILL No: 06 - STRUCTURAL STEEL WORKS								0.00
TOTAL OF BILL No: 06 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL NO: 07								
<u>DOORS AND WINDOWS</u>								
7.1	<u>GENERAL</u> 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							
7.2	<u>TIMBER DOORS, ALUMINIUM DOORS AND WINDOWS</u>							
(1)	D1 (1500 x 2400) + Powder coated aluminium panel with powder coated aluminium frame and clear glass finishes with brus metal (siler) x 3,Lock x1	1.00	Nos					0.00
(2)	D2 (1200 x 2400) + Powder coated aluminium panel with powder coated aluminium frame and clear glass finishes with brus metal (siler) x 3,Lock x1	2.00	Nos					0.00
(3)	D3 (850 x 2400) + Powder coated aluminium panel with powder coated aluminium frame and clear glass finishes with brus metal (siler) x 3,Lock x1	2.00	Nos					0.00
(4)	D4 (850 x 2150) + Powder coated aluminium panel with powder coated aluminium frame and clear glass finishes with brus metal (siler) x 3,Lock x1	1.00	Nos					0.00
(5)	D5 (6550 x 2000), Timber Nyatch or equiv. Frame, with Timber Panel , Varnish wood dyed finish, Brushed metal (Silver) Hinges x 3, Lock x 1	4.00	Nos					
(6)	D6 (900 x 2150), Timber Nyatch or equiv. Frame, with Timber Panel , Varnish wood dyed finish, Brushed metal (Silver) Hinges x 3, Lock x 2	1.00	Nos					
(7)	W1 (3700 x 1700) Timber panel with 6mm clear glass, nyatch or equilant Frame Windows, Varnish or wood dyed finish and lock/hinges fix glass.	2.00	Nos					0.00
BILL NO: 07 -DOORS AND WINDOWS								0.00
TOTAL OF BILL No: 07 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL NO: 08								
<u>FINISHES</u>								
8.1	<u>GENERAL</u> Note: Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.							
8.2	<u>FLOOR FINISHES</u>							
8.2.1	<u>Tiling areas</u>							
(1)	Referees room Floor tiling area	8.77	m ²					0.00
	Tiles	27.00	nos					
	Cement for tiling	3.00	bags					
(2)	Toilet area Floor tiling area	21.86	m ²					0.00
	Tiles	67.00	nos					
	Cement for tiling	6.00	bags					
(3)	Sports store Floor tiling area	24.66	m ²					0.00
	Tiles	76.00	nos					
	Cement for tiling	7.00	bags					
8.2.2	Supply and installation of wood floor finishes including 12mm plyboard, rubber air pads, 45mm× 70mm runners moisture barriers all completed as per the drawings and specifications	794.40	m ²					
8.3	<u>WALL FINISHES</u>							
(1)	Wall claddings completed as per the drawings and specifications	846.04	m ²					
(2)	Purlins for wall claddings	664.80	m					
8.4	<u>COLUMN FINISHES</u>							
(1)	Approval aluminium claddings for steel column covers	324.70	m ²					
(2)	2mm thk aluminium perforated acoustic panels fixed to 50× 50× 1.5mm GI SHS vertical frame	324.70	m ²					
(3)	Rock wool insulation	324.70	m ²					
(4)	C Channels	259.20	m					
8.5	Approval wall claddings for down pipe covers	80.00	m ²					
BILL NO: 08 - FINISHES								0.00
TOTAL OF BILL No: 08 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
BILL No: 09								
<u>ROOFING</u>								
9.1	General							
9.1.1	GENERAL (a) Rates shall include for: fair edges, dressing over angel fillets, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps. (b) Rates shall include for: all labour in framing, notching and fitting around projections, pipes, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails and screws.							
(1)	Roof covering Curved lysaght roofing sheets/composite Aluminum roof sheets as shown in the drawings laid on steel roof frame work including with all standard accessories as per the drawing. .	974.40	m ²					0.00
(2)	Insulation layer Supply and installation of structural member to fix interior frame & insulation completion as per the Drawings and Specifications	974.4	m ²					
(3)	Z - cannel purlin @600 c/c	1113.6	m					
BILL N0: 09 - ROOFING								0.00
TOTAL OF BILL No: 09 - Carried over to summary								0.00
BILL N0: 10								
<u>HYDRAULICS & DRAINAGE</u>								
10.1	Internal Plumbing							
(1)	Internal fresh water plumbing in toilets. Supply and laying of pipes, joints and stop valves	1.00	item					0.00
(2)	Internal pump water in toilets (WC cistern only) incl. Supply and laying of pipes, joints and stop valves	1.00	item					0.00
(4)	25mm dia PPR pipe	37.58	m					0.00
(5)	32mm dia PPR pipe	9.28	m					0.00
10.2	Sanitary Fixtures & Accessories Sanitary fixtures complete including brackets. All sanitary fittings shall be of superior quality. Taps, Hand shower, Head shower, Bidet shower, towel ring, and towel bar should be Stainless steel							
10.3	Toilets							
(1)	WC suites incl. Flush tank and fittings with pump water connection	5.00	Nos					0.00
(2)	Washbasin	5.00	Nos					0.00
(3)	Urinal	2.00	Nos					0.00
(4)	Water taps	12.00	Nos					0.00
(5)	Floor drain	5.00	Nos					0.00
(6)	Butterfly valve	3.00	Nos					0.00
10.4	DRAINAGE							
10.4.1	Preamble notes							
(1)	Excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints and all joints, gutters, end caps and other incidental materials.	1.00	item					0.00
(2)	Waste water and sewage connection from all the toilets, to the municipality sewer line with Catch pits and Manhole. Also the well water over flow to the Municipality Drain incl. Supply and laying of pipes.	1.00	item					0.00
(3)	Manhole	1.00	item					0.00
(4)	Interceptor Manhole	1.00	item					0.00
(5)	Drainage pipes							

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
	50mm dia pipes	5.30	m					0.00
	110mm dia pipes	13.47	m					0.00
(6)	Waste water pipe							
	40mm dia pipes	3.00	m					0.00
	50mm dia pipes	11.35	m					
	63mm dia pipes	11.79	m					
BILL No:10 - HYDRAULIC AND DRAINAGE								0.00
TOTAL OF BILL No:10 - Carried over to summary								0.00
BILL No: 11								
<u>ELECTRICAL INSTALLATIONS</u>								
11.1	<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							
11.2	<u>ELECTRICAL BOARDS</u> (1) Distribution board (DB) complete with protection devices, Incoming & outgoing breakers and all other accessories required to complete installation.	1.00	Nr					
	(2) <u>Cables</u> Cables install to sub distribution boards from main distribution board including the cable management system and complete with cable lugs, cable glands, cable identification tags, cable ties and all other accessories required to complete installation.	1.00	item					
11.3	<u>ELECTRICAL FIXTURES</u> (1) Foot light weatherproof (2) High bay light (3) Wall mount light weatheproof (4) Wall mount light indoor light (5) 01 gang switch (6) 02 gang switch (7) 03 gang switch	6.00 34.00 4.00 33.00 23.00 1.00 2.00	nos nos nos nos nos nos nos					
BILL No: 11 - ELECTRICAL INSTALLATION								0.00
TOTAL OF BILL No: 11 - Carried over to summary								0.00
BILL No: 12								
<u>EXTRA WORKS</u>								
1.0	Supply and installations of retractable seatings as per the drawings and specifications	1.00	Item					0.00
BILL No: 12 - EXTRA WORKS								0.00
TOTAL OF BILL No: 12 - Carried over to summary								0.00

Item	Description	Qty	Unit	Material Rate	Labour Rate	Material Amount	Labour Amount	Total Amount
SUMMARY								
1.0	PRELIMINARIES							0.00
2.0	GROUND WORKS							0.00
3.0	CONCRETE							0.00
4.0	MASONRY AND PLASTERING							0.00
5.0	WATER PROOFING							0.00
6.0	STRUCTURAL STEEL WORKS							0.00
7.0	DOORS AND WINDOWS							0.00
8.0	FINISHES							0.00
9.0	ROOFING							0.00
10.0	HYDRAULIC & DRAINAGE							0.00
11.0	ELECTRICAL INSTALLATION							0.00
12.0	EXTRA WORKS							0.00
GRAND TOTAL								0.00