

**UNPRICED BILLS OF QUANTITIES**

**FOR**

**PROPOSED PLAYGROUND DEVELOPMENT**

**AT**

**MULTI SERVICES CENTER DAURA**

**PROPOSED EXTERNAL WORKS**

**CONSTRUCTION OF A 5-A-SIDE FOOTBALL PITCH**

(Approximate Area = 605m<sup>2</sup>)

**(ALL PROVISIONAL)**

**EXCAVATING**

A	Site Preparation; Clear site of all bush, shrub, grass and trees, and cart away from site.	605	m <sup>2</sup>
B	Ditto; Excavate and remove vegetable top soil average 150mm deep	605	m <sup>2</sup>

**SURFACE TREATMENT/WEED GROWTH PREVENTION**

C	Prepare and apply approved weed killer to the surfaces of excavation.	605	m <sup>2</sup>
D	Provide and lay geotextile material on the surfaces of excavation.	605	m <sup>2</sup>

**FILLING/SUB-BASE**

E	10mm sized aggregate sub-base mixed with imported laterite filling, solidly compacted to a thickness of 150mm.	91	m <sup>3</sup>
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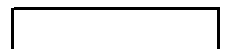
**SHOCK PAD UNDERLAY**

F	30mm approved shock pad underlay fixed in accordance with the manufacturer's instructions under artificial grassing.	605	m <sup>2</sup>
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**50MM ARTIFICIAL GRASSING**

G	50mm high quality monofilament fibre artificial turf/grassing for soccer pitches fixed in accordance with the manufacturer's instructions, including proper seaming together of the turf strips, proper stretching and fastening of the turf.	605	m <sup>2</sup>
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**To collection**



PROPOSED EXTERNAL WORKS

**5-A-SIDE FOOTBALL PITCH CONT'D**

**INFILL FOR ARTIFICIAL TURF**

A	Round grain silica sand and SBR rubber granules infill to the artificial turf/grass fixed in accordance with the manufacturer's instructions, including raking in the infill and watering the turf.	605	m2
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**LINE MARKINGS ON THE TURF**

B	Prepare and apply wear-resistant and environmentally-safe white painting as marking lines for the football turf, after consultation and proper dimension measurements for a standard 5-a-side pitch, with the client's approved representative(s).		item
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**GOAL POSTS, NETS AND CORNER FLAGS**

C	Provision and installation of goal posts of width 3660mm and 1220mm high from the natural ground level; made of strong circular hollow metal section, 150mm diameter, with solid horizontal metal stand footing and metal hooks at intervals for hanging of the net, including proper galvanized finishing and white painting.	2	nr
D	Soccer nets for goal post of width 3660mm and height from natural ground level 1220mm, made of high quality material, white colour or as instructed by the main consultant	2	nr
E	Flexible plastic sticks with white corner flags or any approved colour, including digging and fixing into the ground at the four corners of the pitch, finished height to be 1500mm from the natural ground level.	4	nr

To Collection



PROPOSED EXTERNAL WORKS

**COLLECTION**

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**CONSTRUCTION OF A 5-A-SIDE FOOTBALL PITCH**  
**Carried to Summary**



## PROPOSED EXTERNAL WORKS

### **CONSTRUCTION OF PLAYGROUNDS**

(Approximate Area = 590m<sup>2</sup>)

#### **(ALL PROVISIONAL)**

#### **EXCAVATING**

A	Site Preparation; Clear site of all bush, shrub, grass and trees, and cart away from site.	590	m <sup>2</sup>
B	Ditto; Excavate and remove vegetable top soil average 150mm deep	590	m <sup>2</sup>

#### **SURFACE TREATMENT/WEED GROWTH PREVENTION**

C	Prepare and apply approved weed killer to the surfaces of excavation	590	m <sup>2</sup>
D	Provide and lay geotextile material on the surfaces of excavation	590	m <sup>2</sup>

#### **FILLING/SUB-BASE**

E	10mm sized aggregate sub-base mixed with imported laterite filling, solidly compacted to a thickness of 150mm.	89	m <sup>3</sup>
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#### **SHOCK PAD UNDERLAY**

F	30mm approved shock pad underlay fixed in accordance with the manufacturer's instructions under artificial grassing.	590	m <sup>2</sup>
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#### **50MM ARTIFICIAL GRASSING**

G	50mm high quality monofilament fibre artificial turf/grassing fixed in accordance with the manufacturer's instructions, including proper seaming together of the turf strips, proper stretching and fastening of the turf.	590	m <sup>2</sup>
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#### **INFILL FOR ARTIFICIAL GRASSING**

H	Round grain silica sand and SBR rubber granules infill to the artificial turf/grass fixed in accordance with the manufacturer's instructions, including raking in the infill and watering the turf.	590	m <sup>2</sup>
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### **CONSTRUCTION OF PLAYGROUNDS**

**Carried to Summary**



PROPOSED EXTERNAL WORKS

**WALK PATHS AROUND THE PERIMETER OF THE FOOTBALL PITCH AND PLAYGROUND**

(Approximate Area = 436m<sup>2</sup>)

**(ALL PROVISIONAL)**

**EXCAVATING AND FILLING**

A	Site Preparation; Clear site of all bush, shrub, grass and trees, and cart away from site	436	m <sup>2</sup>
B	Ditto; Excavated and remove vegetable top soil average 150mm deep	436	m <sup>2</sup>
C	Imported filling; Laterite; Beds over 50mm thick but not exceeding 150mm thick; Level, to falls and cross falls	65	m <sup>3</sup>

**PRECAST CONCRETE WORKS**

**PRECAST CONCRETE**

D	300 x 300x 50mm Precast Concrete Paving Slab with Natural Buff finish and square edges of approved pattern and finished, fair on all exposed faces bedded on 100mm Stabilized sand sub-base to road including filling joints.	436	m <sup>2</sup>
E	130 x 330mm Chamfered Kerb laid on 450x150mm concrete foundation (1:3:6-40mm aggregate) bed including excavation and disposal of surplus excavated material.	487	m

**DECORATIONS**

**PAINTING AND CLEAR FINISHES**

Prepare and Apply one prime coat and two finishing coats of SUPERIOR GLOSS paint: DULUX or other equally approved

F	Painting of kerbs	487	m
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**WALK PATHS AROUND THE PERIMETER OF THE FOOTBALL PITCH AND PLAYGROUND  
Carried to Summary**



PROPOSED EXTERNAL WORKS

**WALK AREAS AROUND THE FOOTBALL PITCH AREA**

(Approximate Area = 389m<sup>2</sup>)

**(ALL PROVISIONAL)**

**EXCAVATING AND FILLING**

A	Site Preparation; Clear site of all bush, shrub, grass and trees, and cart away from site	389	m <sup>2</sup>
B	Ditto; Excavate and remove vegetable top soil average 150mm deep	389	m <sup>2</sup>
C	Imported filling; Laterite; Beds over 50mm thick but not exceeding 150mm thick; Level, to falls and cross falls	58	m <sup>3</sup>

**PRECAST CONCRETE WORKS**

**PRECAST CONCRETE**

D	300 x 300x 50mm Precast Concrete Paving Slab with Natural Buff finish and square edges of approved pattern and finished, fair on all exposed faces bedded on 100mm Stabilized sand sub-base to road including filling joints.	389	m <sup>2</sup>
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**WALK AREAS AROUND THE FOOTBALL PITCH AREA**  
**Carried to Summary**



PROPOSED EXTERNAL WORKS

**STORMWATER DRAINAGE**

(Approximate Length = 227m)

**(ALL PROVISIONAL)**

**EXCAVATING AND FILLING**

A	Trench excavation, commencing from stripped level; Foundation excavation; Not exceeding 1.0m deep	128	m3
B	Disposal; Excavated material off site	128	m3

**INSITU CONCRETE WORKS**

**INSITU CONCRETE**

**GRADE 15**

C	Horizontal work; less or equal to 100mm thick; In concrete copping structures; Reinforced less or equal to 5%	5	m3
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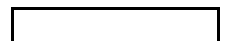
**GRADE 25**

D	Mass concrete; less or equal to 150 thick; in trench filling; poured on or against earth.	26	m3
E	Horizontal work; less or equal to 150mm thick; in box culvert structures; Reinforced equal to 5%	3	m3
F	Vertical work; less or equal to 150mm thick; in cover slab structures; Reinforced equal to 5%	17	m3

**FORMWORK**

G	Plain formwork; Sides of concrete coping structures; less or equal to 100mm high	454	m
H	Plain formwork; Edges of cover slab structures; less or equal to 100mm high	227	m
J	Plain formwork; Sides and soffits of box culverts	37	m2

**To Collection**





PROPOSED EXTERNAL WORKS

**REINFORCEMENT**

**High yield steel bars:**

**Box Culverts including Headwalls**

A 12mm diameter; Straight and Bent (PROVISIONAL) 303 kg

**Cover Slabs**

B 10 mm diameter; Straight and Bent (PROVISIONAL) 1,700 kg

**MASONRY**

**BRICK/BLOCK WALLING**

VIBRATED STONEDUST BLOCKWORK; 225 x 450 NOMINAL; LAID  
STRETCHER BOND; CEMENT MORTAR (1:3) FILLED SOLID WITH  
WEAK CONCRETE GRADE 15

C Walls; 225mm thick; blockwork; skin of hollow walls; laid in  
stretcher bond 341 m2

**FLOOR, WALL, CEILING AND ROOF FINISHINGS**

**INSITU**

CEMENT-SAND (1:3); PLAIN RENDERING; FINISHING  
TROWELLED SMOOTH

D Finish to walls; 15mm thick overall thickness; over 600mm high  
internally 341 m2

**To Collection:**

**COLLECTION**

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**BILL NR. 8.3: STORMWATER DRAINAGE  
Carried to Summary**

PROPOSED EXTERNAL WORKS

**CONSTRUCTION OF PAVILION**

**SUBSTRUCTURE (ALL PROVISIONAL)**

**EXCAVATING AND FILLING**

A	Site Preparation; Remove topsoil 150mm deep	90	m2
B	Pit Excavation, commencing from stripped level; Foundation excavation; Not exceeding 1.5m deep for pits	32	m3
C	Disposal; Excavated material off site	20	m3
D	Filling obtained from excavated material; Final thickness of filling not exceeding 500mm deep; over 250mm average thick arising from excavations	25	m3
E	Imported filling; Laterite; Beds over 50mm thick but not exceeding 500mm deep, exceeding 250mm thick; Level, to falls and cross falls	13	m3
F	Imported filling; Hardcore; Beds over 50mm thick but not exceeding 500mm deep 300mm thick; Level, to falls and cross falls	13	m3

**SURFACE TREATMENT**

G	Level and compact bottom of excavation to receive concrete foundations	32	m2
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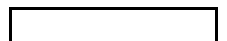
**PESTICIDES: DIELDREX 20**

H	Applying to surfaces	137	m2
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**DAMP PROOFING MEMBRANE**

J	1000 guage polythene damp proof membrane; Over 500mm wide, 1mm thick; Horizontal	88	m2
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To Collection



**SUBSTRUCTURE (Cont'd)**

## PROPOSED EXTERNAL WORKS

### **INSITU CONCRETE WORKS**

#### **INSITU CONCRETE**

##### **GRADE 15**

A	Horizontal work; less or equal to 50 thick; in blinding; poured on or against earth	2	m3
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##### **GRADE 25**

B	Horizontal work; less or equal to 300mm thick; in column base structures; Reinforced equal to 5%	10	m3
C	Horizontal work; less or equal to 300 thick; in ground slab; poured on or unblinded hardcore	13	m3
D	Vertical work; less or equal to 300mm thick; in column structures; Reinforced equal to 5%	1	m3

#### **FORMWORK**

E	Plain formwork; Sides of column bases; less or equal to 500mm high	32	m2
F	Plain formwork; Edges of horizontal; less or equal to 250mm high; to ground slab and blinding	52	m
G	Plain formwork; Sides of columns	24	m2

#### **REINFORCEMENT**

##### **High yield steel bars:**

##### **Column bases**

H	12 mm diameter; Straight and Bent	410	kg
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##### **Columns**

J	10-16mm diameter; Straight and Bent	125	kg
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**To Collection**

PROPOSED EXTERNAL WORKS

**SUBSTRUCTURE (Cont'd)**

**FABRIC REINFORCEMENT : TO BS 4483**

**Mesh fabric with 250mm end laps and 150mm side laps to bed**

A A142 mesh as top reinforcement of ground floor slab;  
(measured nett) 88 m2

**To Collection**

**COLLECTION**

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**SUBSTRUCTURE**

Carried to pavilion Summary

**SUPERSTRUCTURE**

PROPOSED EXTERNAL WORKS

**FRAME**

**Columns**

A	Galvanized hollow steel pipes, vertically, diametre 150mm, 3000mm long, well painted; including necessary fixing accessories	22	nr
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**FRAME**

Carried to pavilion Summary



**SHEET ROOF COVERING**

## PROPOSED EXTERNAL WORKS

### **SHEET METALS**

0.55mm longspan aluminium roofing sheets with alocron finish in double span lapped and fixed in accordance with the manufacturer's instructions (measured nett) to metal trusses including coating all surfaces in contact with other materials with bituminous paint

A	Covering over 500mm wide; gentle sloped; finished to exposed roof members	90	m2
B	Boundary work; 0.55mm aluminium eave angles; equal bent; 200mm girth; Horizontal	52	m
C	Ditto, bent and straight; 400mm girth in fascia/flashing	54	m

### Roof beam

D	Galvanized hollow steel pipes, horizontally, diameter 150mm, 3000mm long, well painted; including necessary fixing accessories	18	nr
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### Roof trusses

E	Galvanized hollow steel pipes, horizontally, diameter 150mm, 4000mm long, well painted; including necessary fixing accessories; at 2000mm centres	11	nr
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### **SHEET ROOF COVERING**

Carried to pavilion Summary



### **FLOOR, WALL, CEILING AND ROOF FINISHINGS**

PROPOSED EXTERNAL WORKS

**INSITU**

**CEMENT-SAND (1:3) BEDS AND BACKINGS; TROWELLED SMOOTH**

A	Screeds, beds and topping 40mm thick in one coat; Over 600mm wide; Level and to falls only less or equato 15 <sup>0</sup> from horizontal; <b>general concrete floor</b> background	88	m2
B	Backings and topping; 12mm thick in one coat; less or equal to 600mm wide; vertically; in edges of ground floor slab	52	m

**FLOOR, WALL, CEILING AND ROOF FINISHINGS**

Carried to pavilion Summary



**PAVILION SUMMARY**

PROPOSED EXTERNAL WORKS

- A SUBSTRUCTURE
- B FRAME
- C SHEET COVERING
- D FLOOR, WALL, CEILING AND ROOF FINISHINGS

**CONSTRUCTION OF PAVILION  
CARRIED TO SUMMARY**



**WIRE MESH FENCING AROUND THE FOOTBALL PITCH  
AND PLAYGROUNDS**



**(ALL PROVISIONAL)**

**Frame welded wire mesh fencing around the perimeter of football pitch**

A Frame welded wire mesh fencing for football pitch; overall length 103,000mm, overall height 7500mm; made from galvanized or PVC coated mild or stainless steel wire, with double leaf gate size 1500mm wide by 2400mm high; including excavation, backfilling and grouting of the metal posts in concrete with following descriptions: 1 nr

Wire diameter 5 mm

Panel height 2500 mm

Panel length 3000 mm

Round posts of 60 mm in diameter and thickness of 2.5 mm spaced at 1500mm centres and grouted into the ground with concrete

**Frame welded wire mesh fencing around the perimeter of playgrounds**

B Frame welded wire mesh fencing for playgrounds; overall length 106,000mm; overall height 2500mm, made from galvanized or PVC coated mild or stainless steel wire, with double leaf gate size 1500mm wide by 2400mm high, including excavation, backfilling and grouting of the metal posts in concrete of: 1 nr

Wire diameter 5 mm

Panel height 2500 mm

Panel length 3000 mm

Round posts of 60 mm in diameter and thickness of 2.5 mm spaced at 1500mm centres and grouted into the ground with concrete

**WIRE MESH FENCING AROUND THE FOOTBALL PITCH AND PLAYGROUNDS**

**Carried to Summary**



**FURNITURE, FITTINGS AND EQUIPMENT**

## PROPOSED EXTERNAL WORKS

### METAL SEATS AT THE PAVILION

A	Metal benches, 3000mm long with back rest and seaters 900mm high, galvanized and well painted in approved colour(s).	20	nr
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### PLAYGROUND EQUIPMENT

B	Kids Round bouncing <b>Trampoline Bed With Roof canopy and plastic slide</b> , with jumping bed, mat, spring, slide and canopy.	1	nr
C	Swing-N-Slide PB 8360 Ranger Wooden <b>Swing Set</b> with Swings, Brown	2	nr
D	Swing-N-Slide 7 ft.Turbo <b>Tube Slide</b> , Yellow	1	nr
E	Swing-N-Slide PB 9241-1 Knightsbridge Wooden Swing Set with Slide, Swings, Glider, Climbing Wall, Green Slide	1	nr
F	Swing-N-Slide Tremont Tower Play Set with Two Slides, Two Swings, Glider, Picnic Table, Telescope and Climbing Wall , Green	1	nr
G	Doctor Dolphin <b>Inflatable Bounce House Slide</b> Bear Theme with Blower - Punching Bag - Ball Pit, Bouncy House for Kids 2 - 12 Outdoor or Indoor	1	nr
H	Swing N Slide <b>See Saw</b> Spinner, Blue	3	nr

### **FURNITURE, FITTINGS AND EQUIPMENT Carried to Summary**



### EXTERNAL ELECTRICAL SERVICES INSTALLATIONS

PROPOSED EXTERNAL WORKS

**(ALL PROVISIONAL)**

**EXTERNAL STREET LIGHTS AND ASSOCIATED WORKS**

**Supply, deliver to site, and install the following:-**

- |   |  |   |      |
|---|--|---|------|
| A | LED 250W Sport floodlight complete with 8m pole (m/s) and adjustable bracket for multiple lamps  | 4 | nr   |
| B | Allow for necessary conduiting and cabling/wiring for all lighting points buried in trenches, complete from their switches and DB in concealed system. (Niger pipe or approved equal). |   | item |

**EXTERNAL ELECTRICAL SERVICES INSTALLATIONS**

Carried to Summary



**EXTERNAL MECHANICAL SERVICES INSTALLATIONS**

PROPOSED EXTERNAL WORKS

**(ALL PROVISIONAL)**

**Supply, deliver to site and install the following complete with all required installation and operational accessories**

**WATER STORAGE TANKS, PUMPS AND FITTINGS**

A	Supply and install GEEPEE overhead Water Storage Tank size 5000 litres, fixed to engineer's specifications including all necessary accessories and fittings; mounted on concrete support to engineer's design details	1	nr
B	1Hp Duplicate water booster pump, 1 duty, 1 standby, complete with accessories: (Make; ATLAS or aproved equal) capable of delivery 2.5L/S at a minimum head of 50m	1	nr
C	19mm dia Stand Taps (BIB taps)	14	nr

**External Water Supply Pipes and Fittings**

D	Allow for supply and installation of UPVC Pressure Pipes; straight; <b>HDPE</b> ; push-fit jointed; in ducts, chases, floor screeds, and trenches; as per Engineer's specification		Item
E	Allow for piping accessories for hot and cold water supply installations including brackets, Tangit Gum etc		Item
F	Allow for testing and commissioning of the entire installations		Item

**EXTERNAL MECHANICAL SERVICES INSTALLATIONS**

CARRIED TO SUMMARY



PROPOSED EXTERNAL WORKS

**PLAYGROUND SUMMARY**

- A CONSTRUCTION OF A 5-A-SIDE FOOTBALL PITCH
- B CONSTRUCTION OF PLAYGROUNDS
- C WALK PATHS AROUND THE PERIMETER OF THE FOOTBALL PITCH AND PLAYGROUNDS
- D WALK AREAS AROUND THE FOOTBALL PITCH
- E STORM WATER DRAINAGE
- F PAVILION
- G WIRE MESH FENCING AROUND THE FOOTBALL PITCH AND PLAYGROUNDS
- H FURNITURE, FITTINGS AND EQUIPMENT
- H EXTERNAL ELECTRICAL SERVICES INSTALLATIONS
- J EXTERNAL MECHANICAL SERVICES INSTALLATIONS

**EXTERNAL WORKS  
CARRIED TO GENERAL SUMMARY**



PROPOSED EXTERNAL WORKS

**GENERAL SUMMARY**

1 PRELIMINARIES AND GENERAL CLAUSES

2 EXTERNAL WORKS

**SUB TOTAL 1**

3 ADD: CONTINGENCY SUM (2.5%)

**SUB TOTAL 2**

4 ADD: PRELIMINARIES (2.5%)

**ESTIMATED TOTAL COST**

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