

BILL OF QUANTITIES

CONSTRUCTION OF

FUTSAL GROUND

CLIENT

MALDIVES POLICE SERVICE

23-Mar-22

BILL OF QUANTITIES

Item	Description	Qty	Unit	Rate	Amount
BILL No: 01					
<u>PRELIMINARIES</u>					
<u>General Notes</u>					
<u>Abbreviations</u>					
m - meter					
No - numbers					
m ³ - cubic meter					
m ² - square meter					
Lm - Linear meter					
t- tonnes					
incl - including					
mm - millimeter					
dia - diameter					
SS - Stainless Steel					
GI - Galvanised Iron					
1.1 <u>SITE MANAGEMENT COSTS</u>					
(1)	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings and similar.	1.00	item		
1.2 <u>SITE SAFETY / SECURITIES</u>					
(1)	Allow lump sum for health and safety measures for labor and contractor's staff	1.00	item		
(2)	Allow for erecting and maintaining of temporary scaffoldings , supports, platforms and climbing stairs and remove on completion of the Works including temporary re-erectings if required.	1.00	item		
1.3 <u>CLEANING UPON COMPLETION</u>					
(1)	Cleaning the site upon completion of all works	1.00	item		
BILL No: 01 - PRELIMINARIES					
TOTAL OF BILL No: 01 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 02					
<u>EARTH WORKS</u>					
	<u>GENERAL</u> (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing surplus soil.				
2.1	<u>SITE CLEARING</u> (1) Demolition ,leveling and cleaning, waste materials away from the site.	1.00	item		
2.2	<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 roadway drainage system	7.12	m ³		
2.3	<u>EARTH FILLING</u> Rates shall include for levelling, grading, trimming and compacting. (1) Back filling (2) 50mm thick sand blinding layer on pitch area (3) 200mm thick crushed stone subbase (4) 50mm thick sand blinding layer on top of the subbase	2.94 1,177.70 1,177.70 1,177.70	m ³ m ² m ² m ²		
2.4	<u>PAVING AND LEVELING</u> Compacting and leveling ground area to receive paving blocks. Allow for 50mm thick sand blinding layer as described. (1) Paving Blocks as per drawing. (2) Curb Stones	400.59 100.00	m ² m		
2.5	<u>ROADWAY DRAINAGE SYSTEM</u> (a) Rates shall include for excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints and all joints and other incidental materials. (1) Supply and installation of Pre - cast concrete tench drain" U" blocks as per drawings.	10.00	nos		
BILL No: 02 - EARTH WORKS					
TOTAL OF BILL No: 02 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 03					
<u>MASONRY AND PLASTERING</u>					
<u>General</u>					
<p>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 flashings, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary works required.</p>					
3.1 <u>MASONRY AND PLASTERING</u>					
<p>Note: Rates shall include for: blocks, cutting or leaving holes and openings as recesses, 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 (a) Mix ratio for Plastering & masonry shall be 1:3.</p>					
(1)	20mm thk plastering on both side including painting works	684.44	m ²		
BILL No: 03 -MASONRY AND PLASTERING					
TOTAL OF BILL No: 03 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 04					
<u>METAL & PAINTING WORKS</u>					
	<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.</p> <p>(c) Rates shall include for fabrication and erection of temporary supports and fixing into position</p> <p>(d) This work must include removal of existing paint from the frames and application of 2 coats of enamel paint on all G.i pipe frames.</p>				
	<p>4.1 <u>PVC FENCING</u></p> <p>Boundary fencing with PVC coated chain link fencing net (8 guage), with medium duty GI pipe supporting frame and concrete footings as per design drawings including earthwork etc all complete as per the directions of Engineer-in-charge. Fencing net should fix inside futsal pitch. To repair rusted g.i pipes if necessary rusted pipes must be cut and rewelded to the exiting frames. Apply redoxide paint on welded joints.</p>				
	(1) PVC fence	663.20	m ²		
	(2) Repairing of existing rusted G.I. pipes	90.00	m		
	(3) Goal fence as per drawing	2.00	nos		
	<p>4.2 <u>GATE</u></p> <p>swing type Gate (double leafed) with medium duty GI pipes & PVC coated chain link fencing net (50mm x 50mm mesh size) as per design drawings including 2 nr's of hinges per leaf & locking arrangement etc all complete of the following size as per directions of Engineer-in-charge.</p>				
	(1) G1 Entrance Gate	1.00	nos		
	(2) Goal Post	2.00	nos		

Item	Description	Qty	Unit	Rate	Amount
4.3	<u>TURF INSTALLATIONS</u> Supply and installation of infilled artificial grass with manufactures instructions and Allow for infill materials which are silica sand and rubber granules as described <u>Turf Specification (ISO Standard or equivalent)</u> Dtex:12000 Pile Height: 40 mm Stitch Rate: 14 Stitches / 10cm +/- 10% Gauge: 5/8 inch Density: 8820 Stitches /SQM +/- 10% Pile Weight: 1491g/SQM (±5%) Backing: 3 Layers (composite PP+Net) Second Backing: Latex Color: Verde green & Lime Turf Specification (ISO Standard or equivalent)				
	-(1) Turf area (44/29m) (pille height 40mm)	1,177.70	m ²		
	(i) Adhesive Pu bi-component	32.00	Set		
	(ii) Seaming Tape (30cm wide)	800.00	m		
	(iii) SBR Rubber Granules for infilling (0.8-2.5mm)	13.00	Tons		
	(iv) Silica Sand for Infill (0.5-1.0mm) (washed dried clear	16	Tons		
	-(2) Line Markings as per drawing / in accordance to the	1.00	item		
4.4	<u>FLOOR PAINTING AND MARKING</u> Nippon or equivalent floor paint finish on concrete surfaces. Exterior surfaces should be applied with weather proof red colour paint.Allow for applied 1-coats of Alkali Resisting primer on all surfaces.				
	(1) External surfaces(paved area)	400.59	m ²		
4.5	<u>OUTDOOR BENCH</u> Supply and deliver to door step, GI bench as per drawings. Rates shall include fabrication painting and completion of all necessary works.				
	(1) Steel bench	3.00	nos		
4.6	<u>PAINTING</u> Nippon or equivalent emulsion paint finish on cement plastered walls and concrete surfaces. Exterior walls should be applied with weather proof paint.Allow for applied 1-coats of Alkali Resisting primer on all plastered surface.				
	(1) Exterior surfaces	684.44	m ²		
BILL No: 04 -METAL & PAINTING WORKS					
TOTAL OF BILL No: 04 - Carried over to summary					

Item	Description	Qty	Unit	Rate	Amount
BILL No: 05					
<u>ELECTRICAL & SPECIFIC INSTALLATIONS</u>					
	<p>(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories</p> <p>(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</p> <p>(c) Rates for electrical conduits, fittings, warning tape equipment and similar items shall include for: all fixings to various building surfaces</p> <p>(d) Light end and switch end of wiring together measured as one point</p> <p>(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.</p> <p>(f) Rates shall include for supply and complete installation</p> <p>(g) Single phase power supply.</p>				
5.1	<u>ELECTRICAL BOARDS</u>				
	Complete installation, including for all connections, earthing, painting, testing and similar of:				
	Single phase main panel board with connections from the mains including meter, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification				
(1)	Main distribution board	1.00	nos		
(2)	Electricity meters	1.00	nos		
5.2	<u>ELECTRICAL WIRING</u>				
	Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each				
(1)	Wiring to Lighting	12.00	points		
(2)	Wiring to D/B	1.00	item		
(3)	Connected to main with 16sqm cable	1.00	item		
5.3	<u>CABLE LAYING</u>				
	Supply and laying of 10 sqmm cable with GI 4.5mm thick condute and avarage depth is - 600mm to 650mm as described				
(1)	10sqmm 4 core caba with hard condute on all light post to main distribution boad	1.00	item		

Item	Description	Qty	Unit	Rate	Amount
5.4	<p><u>LIGHTING, POWER POINTS</u></p> <p>All lights shall be of 'Cree' or equivalent brand or equivalent, led tube light shall be pure white all switches, sockets etc. shall be 'Legrand' brand or equivalent</p> <p><u>Light Specification</u> Item Type: 400W LED Floodlight LED Type: Epistar/Bridgelux/Cree Power: 400W Lamp Luminous Flux: 7000-9000lm Lamp Luminous Efficiency: 70-90lm/W CRI: ≥75Ra Color Temperature: 6000~7000K(CW) Beam Angle: 120-140 degree IP Grade: IP65 Input Voltage: AC85-265V Frequency: 50/60HZ Lamp Body Material: Aluminum Alloy Life Time: ≥35000hours Working Temperature: -20°C~+45°C Shell Color: Grey or Black Dimension: 290*290*90mm Appliance Class: Class I Certification: CE, RoHS, FCC Warranty: 2 years</p>				
(1)	Led flood light (400watts)	12.00	nos		
(2)	Outdoor Switch(manual control)	12.00	nos		
<p>BILL No: 05 - ELECTRICAL & SPECIFIC INSTALLATIONS TOTAL OF BILL No: 05- Carried over to summary</p>					