

CONTRACT NO : UMZ/2025-26/INFRA/CAP/021

NOPOYI SPORTFIELD PHASE 2

CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS

SECTION 1300

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION 1300				
13	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13,01	Contractor's general obligations				
	(a) Fixed time obligations	L/sum	1		
	(b) Value-related obligations	L/sum	1		
	(c) Time-related obligations	Month	6		
	(d) Community Liason Officer for eight (8) months	Prov. Sum	1	27 000,00	27 000,00
	(e) Project Steering Community	Prov. Sum	1,00	7 200,00	7 200,00
13,02	Health and Safety Compliance	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY					34 200,00

SECTION 2 EXTERNAL WORKS**BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE, ETC**

ITEM NO	DESCRIPTION	UNITY	QUANTITY	RATE	AMOUNT
	<p>The Tenderer is referred to the relevant Clauses in the Standard Preambles to All Trades and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</p> <p>SECTION 2 BILL NO. 1 : GENERAL SITEWORKS, SITE CLEARANCE, ETC</p> <p>Site clearance: (to obtain top soil)</p> <p>1 Clear the area of the site of all grass, weeds, shrubs, trees regardless of girth debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.</p> <p>Earthworks:</p> <p>2 Remove topsoil to nominal depth of 150mm, stockpile and maintain</p> <p>BULK EARTHWORKS</p> <p>4 Cut to fill for forming sportsfield terraces</p> <p>5 Cut to stockpile existing G5 material in running track parking areas for rehabilitating excavation for topsoil</p> <p>6 Stockpile to fill for rehabilitating topsoil excavations</p> <p>7 Extra over excavation in soft excavation for excavation in intermediate material excavation.</p>				
		m³	2 888		
SEC 2 BILL : 1			Total Caried Forward		

SECTION 2 EXTERNAL WORKS**BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE , ETC**

ITEM NO	DESCRIPTION			RATE	AMOUNT
SEC 2 BILL : 1			Brought Forward		
8	Importation of G6 material for forming sportsfield terraces compacted to a density of at least 93% Mod. AASHTO maximum density from:				
	a) Commercial sources	m ³		Rate Only	
	b) From borrow pits within 10km	m ³		Rate Only	
9	Filling with material from the excavations over site to form building platforms, compacted to a density of at least 93% Mod. AASHTO maximum density.				
10	Filling with material imported from approved borrow pit to form building platforms, compacted to a density of at least 93% Mod. AASHTO maximum density.				
11	Trim and level off surface of natural ground and/or excavated surfaces to receive paving around buildings, including ripping and scarifying as necessary and compacting the entire area to a depth of 150mm to a density of at least 93% Mod. AASHTO. _____				
	LAYERWORKS				
12	Rip and re-compact 150mm terrance material and re-shape to specified levels and grades in sportfield, running tracks, internal roads and parking areas	m ²		17 500	
13	Make up deficiency in G6 fill material and compacting the entire area to a density of at least 93%				
	(a) By importation from designated borrow pits	m ³		701	
SEC 2 BILL : 1			Total Caried Forward		

SECTION 2 EXTERNAL WORKS**BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE , ETC**

ITEM NO	DESCRIPTION		RATE	AMOUNT
SEC 2 BILL : 1			Brought Forward	
14	150mm G5 layer (from approved borrow pit) as per Table 13 of TRH4 compacted to 95% mod AASHTO			
	(a) Gravel Driveways and Parking Areas	m³	75	
	(C) Gravel Access Roads	m³	165	
	LANDSCAPING AND GRASSING			
	Trimming			
15	Machine trimming			
16	Hand trimming			
	RETAINING WALLS			
17	Construct retaining wall using precast concrete blocks in banks			
18	20 MPa mass concrete foundationm			
19	Infill soil backfill using materials from site excavations			
SEC 2 BILL : 1			Total Caried Forward	

SECTION 2 EXTERNAL WORKS**BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE , ETC**

ITEM NO	DESCRIPTION			RATE	AMOUNT
SEC 2 BILL : 1			Brought Forward		
	<p>TOPSOIL AND GRASS PLANTING (CPAP WORK GROUP NO. 104)</p> <p>Earthworks:</p> <p>19 Load from stockpile, transport and spread topsoil excavated from areas near project site over designated areas average 150mm thick and grade to an even surface ready for grass planting (grass planting elsewhere measured), including trimming or filling ground not exceeding 75mm deep to correct profiles.</p> <p>(a) Running Track</p> <p>(b) Other areas specified by the Engineer</p> <p>Mechanical Stabilisation</p> <p>20 Supply and mix with top soiling material form a mechanically stabilised soil cap to receive grass seeds using</p> <p>(a) Sand from Commercial Source</p> <p>Supply and plant grass:</p> <p>21 Supply and Grass planting to level areas with Kikuyu grass including all necessary rolling, watering and mowing.</p> <p>(a) Supply and delivery to site by supplier</p> <p>(b) Contractor's Profit on item 21(a) above.</p> <p>(cb) Supply and spread compost in accordance with supplier's specification</p>				
		Prov.sum	1	150 000,00	150 000,00
		m²	12 100		
		m²	12 100		
SEC 2 BILL : 1			Total Caried Forward		

SECTION 2 EXTERNAL WORKS					
BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE , ETC					
ITEM NO	DESCRIPTION			RATE	AMOUNT
SEC 2 BILL : 1			Brought Forward		
22	Allow for watering and rolling and cutting of grass to the entire grassed areas for the three month maintenance period as described, including providing all necessary water.	sum	1		
23	Established lawn planting to banks with Cynadon Dactylon grass as described, including all necessary fertiliser, weed killer, watering and rolling, mowing, etc.				
SEC 2 BILL : 1	TOTAL CARRIED SECTION SUMMARY PAGE				

SECTION 2 EXTERNAL WORKS**BILL NO. 2 SURFACE WATER DRAINAGE CHANNELS**

ITEM NO	DESCRIPTION	QUANTITY		RATE	AMOUNT
	SECTION 2 BILL NO. 2 : SURFACE WATER DRAINAGE CHANNELS EARTHWORKS OTHER THAN BULK 1 Excavation in earth not exceeding 1m deep (a) Trenches 2 Extra over excavations in earth for excavation in (a) Intermediate material (b) Hardrock 3 Earth filling obtained from excavations and/or prescribed stock piles, on site compacted to 95% Mod AASHTO density (a) Selected granular material (Fill Bracket) STORMWATER PIPES uPVC Pipes 4 315mm Class 12 uPVCs laid in ground, Class 100D concrete pipes in class C bedding 450mm Pipes laid in and <u>including excavation</u> , risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches exceeding 1,0m deep but not not exceeding 2,0m deep				
SEC 2 BILL : 2				Total Caried Forward	

SECTION 2 EXTERNAL WORKS**BILL NO. 2 SURFACE WATER DRAINAGE CHANNELS**

ITEM NO	DESCRIPTION			RATE	AMOUNT
SEC 2 BILL : 2				Brought Forward	
	<p>600mm Pipes laid in and <u>including excavation</u>, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches exceeding 1,0m deep but not not exceeding 2,0m deep</p> <p>BEDDING</p> <p>Provision of Bedding to Trenches</p> <p>5 Selected granular material</p> <p>6 From borrow pits</p> <p>7 Concrete Class B (1:3:5) open surface water channel 900mm wide and 130mm thick overall in section with 900mm wide x 100mm deep V-shaped channel formed in same, reinforced with and including Ref. 193 steel fabric reinforcement, finished smooth on exposed surfaces with salient angles rounded, cast in lengths not exceeding 2m and laid to falls, including all necessary excavation, filling in and compacting earth around and all necessary formwork in Building Apron Slabs</p> <p>8 Concrete Class B (1:3:5) open surface water channel 1000mm wide and 130mm thick overall in section with 1000mm wide x 300mm deep V-shaped channel formed in same, reinforced with and including Ref. 193 steel fabric reinforcement, finished smooth on exposed surfaces with salient angles rounded, cast in lengths not exceeding 2m and laid to falls, including all necessary excavation, filling in and compacting earth around and all necessary formwork around Play Ground</p>				
SEC 2 BILL : 2				Total Caried Forward	

SECTION 2 EXTERNAL WORKS**BILL NO. 2 SURFACE WATER DRAINAGE CHANNELS**

ITEM NO	DESCRIPTION			RATE	AMOUNT
SEC 2 BILL : 2			Brought Forward		
9	Spilling basin at end of surface water channel, comprising 1,5m2 of 80mm thick concrete Class 25/19 graded to falls and currents and finished smooth with Class U2 Wood Float Finish, and 1,5m2 dispersal area of 19mm concrete stone aggregate 100mm thick. including all necessary excavation and formwork.				
	Inlet Chamber				
10	Upgrade stormwater inlet chamber/headwall complete with benching, etc size internally 1500 x 1500mm with one brick sides to suit depth not exceeding 1200mm deep including excavation, with 600mm Diameter ductile cast iron manhole cover and frame				
	Gabions				
11	Surface preparation for bedding the gabions				
12	Galvanised gabion boxes of 2.0x1.0x1.0m with mesh Type 80, 2.7mm diam. Class A galvanised wire				
13	Galvanised gabion mattresses of 300mm x 2.0m x 6.0m of 2.2 mm mesh wire				
SEC 2 BILL : 2	TOTAL CARRIED SECTION SUMMARY PAGE				

SECTION 2 EXTERNAL WORKS**BILL NO. 3 ROADWORKS**

ITEM NO	DESCRIPTION			RATE	AMOUNT
	SECTION 2 BILL NO. 3 : ROADWORKS RESHAPING OF EXISTING ROADS 1 Re-shapining of existing 6.0m wide road TREATMENT OF ROAD-BED 2 Light Roadbed preparation, moisten and compact to 93% Mod. AASHTO density GRAVEL WEARING COURSE 3 Construction 150mm thick gravel wearing course on internal 7 driveways and parking areas using G5 material from commercial source <u>including hauling to site</u> 4 Extra over all items requiring G5 material from borrowpit for overhaul in excess of 6km INTERLOCKING PAVING BLOCKS 5 Layer Works 6 Import G2 quality material from an approved source, water spread and compact to 87% Relative Density for (a) Under Paving to walkways (100mm thick) (b) Under Driveway and Parking Areas (150mm thick) 7 Paving Blocks in Sidewalks, Driveways and Parking Areas Placing bedding sand 25mm thick mixed with weedkiller, cut units to fit edge restraints, compact the pavement, join bricks with 3:1 sand/cement mortar in joints. (Underlying pavement layers measured elsewhere) (a) 221x111x60mm G-Block Interlocking pavers for Driveways and Paking Areas				
SEC 2 BILL : 3				Total Caried Forward	

SECTION 2 EXTERNAL WORKS					
BILL NO. 3 ROADWORKS					
ITEM NO	DESCRIPTION			RATE	
SEC 2 BILL : 3			Brought Forward		
	(b) 221x111x60mm G-Block Interlocking pavers for walkways around Chess Areas				
8	Precast concrete kerbing Figure 7				
9	Precast concrete kerbing Figure 6 (running track edging)				
	CAST IN-SITU CONCRETE PAVING				
10	25MPa Concrete Paving including power floating				
11	Wire Mesh Ref. 617				
SEC 2 BILL : 3	TOTAL CARRIED SECTION SUMMARY PAGE				

SECTION 2 EXTERNAL WORKS**BILL NO. 4 GRANDSTANDS**

ITEM NO	DESCRIPTION	QUANTITY			RATE	AMOUNT
1	SECTION 2 BILL NO. 4 : GRANDSTANDS Earthworks (a) Excavation in all material class for foundations (b) Reduce levels in earth not exceeding 1.0m deep					
2	Formwork Class F2 Smooth Finish to: (a) Surfacebeds (b) Stub columns					
3	Cast Insitu Concrete Paving and Stub Columns (a) 25MPa Concrete in foundations and stub columns (b) 20MPa concrete in surfacebed (125mm thick)					
4	Reinforcement (a) Welded wire mesh Ref. 245 (b) 10mm High yield reinforment (c) 16mm High yield reinforment					
5	Steel Structure : Main Covered Grandstand complete with roof sheeting (a) Fabricate, deliver to site and instal covered grand stand including holddown bolts as per drawing (b) Profit on above item.					
SEC 2 BILL : 4				Total Caried Forward		

SECTION 2 EXTERNAL WORKS**BILL NO. 4 GRANDSTANDS**

ITEM NO	DESCRIPTION			RATE	AMOUNT
SEC 2 BILL : 4				Brought Forward	
5	Steel Structure : Main Covered Grandstand complete with roof sheeting (c) Scaffolding for erection of steel structure (d) Expanded metal mesh				
6	Steel Structure : Minor Covered Grandstand complete with roof sheeting (a) Fabricate, deliver to site and instal covered grand stand including holddown bolts as per drawing (b) Profit on above item. (c) Scaffolding for erection of steel structure (d) 0.5mm Galvinised IBR sheet (e) Expanded metal mesh				
7	Steel Structure : Open Grandstand (a) Fabricate, deliver to site and instal uncovered grand stand including holddown bolts as per drawing, including reinforced concrete base (b) Profit on above item. (c) Scaffolding for erection of steel structure (d) Profit on above item.	Prov. Sum %	1,00 700 000	700 000,00	700 000,00
SEC 2 BILL : 4	TOTAL CARRIED SECTION SUMMARY PAGE				

SECTION 2 EXTERNAL WORKS**BILL NO. 5 BOUNDARY FENCE**

ITEM NO	DESCRIPTION	QUANTITY			RATE	AMOUNT
	SECTION 2 BILL NO. 6 : RE-ALIGNMENT OF BOUNDARY FENCE (For Installation of Main Grandstand)					
1	Dismantling , Re-align and reinstatement of existing precast concrete fence	m	20			
2	Make-Up deficiency in fencing material welded wire fences using existing material:					
3	Contractor's Mark-up on Item 2 above					
SEC 2 BILL : 5	TOTAL CARRIED SECTION SUMMARY PAGE					

SECTION 2 EXTERNAL WORKS
BILL NO. 7 PROVISIONAL SUM

ITEM NO	DESCRIPTION	QUANTITY			RATE	AMOUNT
	SECTION 2 BILL NO. 7 : SITE WORK PROVISIONAL SUM					
1	Refurbishment of the existing change room	Prov. Sum	1		100 000,00	100 000,00
2	Supply and Installation of 12500l septic tank including excavation and plumbing	Prov. Sum	1		100 000,00	100 000,00
3	Supply installation of 8m x 2m lockable gate	Prov. Sum	1		15 000,00	15 000,00
4	Supply and Installation with complete concrete stand 2 x 5000l water tanks	Prov. Sum	1		30 000,00	30 000,00
5	Supply and Installation of all plumbing material	Prov. Sum	1		30 000,00	30 000,00
6	Anchoring/Securing of Elevated tank	Prov. Sum	1		30 000,00	30 000,00
	Profit on above all items.	%		305 000		
SEC 2 BILL : 5	TOTAL CARRIED SECTION SUMMARY PAGE					