

**Part C2 : Pricing Data**

**PHEPHENI SPORTS FACILITY - PHASE 2**

**SECTION 1**

**PRELIMINARIES AND GENERAL PROVISIONS**

**SECTION NO. 1****EXTERNAL WORKS, CHANGEROOMS WITH GENERAL PURPOSE HALL, GUARDHOUSE AND VIP ABLUTION BLOCK****BILL NO. 1****PRELIMINARIES AND GENERAL PROVISIONS**

ITEM NO	DESCRIPTION	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><b>GENERAL</b></p> <p>Should there be any discrepancy between these Preliminaries and the conditions of contract, the former shall take precedence.shall take precedence.</p> <p><b>PART A : FIXED CHARGE AND VALUE RELATED ITEMS</b></p> <p><b>A1 Site Establishment</b></p> <p>1 Involves the setting up of all facilities that will be needed for the efficient functioning of the construction programme. _____ Item</p> <p><b>A2 Safety</b></p> <p>2 The Occupational Health and Safety Act requires every contractor to observe all the necessary requirement during construction period like Hazard identification, risk assessment, personal protective equipments etc. _____ Item</p> <p><b>A3 Injury to the Works</b></p> <p>3 The contractor shall carry the risk of damage to or destruction of the works and material paid, insurable in the R.S.A by means of political riot insurance police. _____ Item</p> <p><b>A4 Third Party Insurance / Public Liability</b></p> <p>4 The contractor shall insure. _____ Item</p> <p><b>A5 Notice Board</b></p> <p>5 The contractor shall provide, erect where directed a notice board as per drawing detail. _____ Item</p> <p><b>A6 Other Fixed Obligations</b></p> <p>6 Remove Site Establishment on Completion of Project _____ Item</p> <p>7 Contractors General Obligations in terms of Part E OHSA 1993 Health and Safety Specification _____ Item</p> <p>8 Contractors General Obligations in terms of Covid-19 regulations _____ Item</p>		
SEC 1 BILL : 1	TOTAL CARRIED FORWARD		

**SECTION NO. 1**

**EXTERNAL WORKS, CHANGEROOMS WITH GENERAL PURPOSE HALL, GUARDHOUSE AND VIP ABLUTION BLOCK****BILL NO. 1****PRELIMINARIES AND GENERAL PROVISIONS**

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
SEC 1 BILL : 1	Brought Forward			
	<b>PART B : SCHEDULED TIME-RELATED ITEMS</b>			
9	<b>B1 Contractual Requirements</b>	Month 10		
	<b>B2 Other Time-Related Obligations</b>			
10	Contractors General Obligations in terms of Part E OHS 1993 Health and Safety Specification	Month 10		
11	Contractors General Obligations in terms of Covid-19 Regulations including: Disinfection (spray), Hand Sanitizing to All employees and site visitors, Digital mobile temperature gauge, etc	Month 10		
12	Occupational Health and Safety Officer	Month 10		
13	Covid-19 Officer	Month 10		
14	<b>Supply protective clothing for site staff</b>			
	(a) Reflective vests	Month 10		
	(b) Reflective bibs	Month 10		
	(c) Hard hats	Month 10		
	(d) Protective foot wear	Month 10		
	(e) Earplugs	Month 10		
	(f) Dust masks	Month 10		
	(g) Gloves for concrete work	Month 10		
	(h) Two piece coveralls Orange colour with EPWP on the back written in black to screen print	Month 10		
SEC 1 BILL : 1	TOTAL CARRIED FORWARD			

**SECTION NO. 1**

**EXTERNAL WORKS, CHANGEROOMS WITH GENERAL PURPOSE HALL, GUARDHOUSE AND VIP ABLUTION BLOCK****BILL NO. 1****PRELIMINARIES AND GENERAL PROVISIONS**

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
SEC 1 BILL : 1	Brought Forward			
15	<b>Supply Covid-19 Preparedness and protective clothing for site staff</b>			
	(a) Respiratory masks	Month 10		
	(b) Face shield for security personnel and CLO	Month 10		
	(c) Facemasks	Month 10		
	(d) Latex gloves	Month 10		
	<b>PART C : PROVISIONAL AMOUNTS BY ENGINEER</b>			
	<b>C1 Community Liason Officer</b>			
16	Provide the amount of <b>R 4 500.00</b> (Four thousand and five hundred rands) per month to be used for Community Liason Officer	Item	Prov. Sum	50 000.00
17	Overheads and Profit on above item.	% R 50 000		
	<b>C2 Samples of Materials and Testing</b>			
18	Provide the sum of <b>R 20 000.00</b> (Twenty thousand rands) for material samples and testing, to be used as instructed by the client.	Item	Prov. Sum	20 000.00
19	Overheads and Profit on above item.	% R 20 000		
	<b>C3 Materials, Plant and Labour on Site Ordered By the Engineer</b>			
20	Provide the sum of <b>R 100 000.00</b> (One hundred thousand rands) for materials Plant and Labour deemed relevant for the contract and ordered by the Engineer	Item	Prov. Sum	100 000.00
21	Overheads and Profit on above item.	% R 100 000		
SEC 1 BILL : 1	<b>TOTAL CARRIED TO GENERAL SUMMARY</b>			

**Part C2 : Pricing Data**

**PHEPHENI SPORTS FACILITY - PHASE 2**

**SECTION 2**

**EXTERNAL WORKS**

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

ITEM NO	DESCRIPTION	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><b>SECTION 2</b> <b>BILL NO. 1 : GENERAL SITEWORKS, SITE CLEARANCE, ETC</b></p> <p><b>Site clearance: (to obtain top soil)</b></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 style="text-align: right;">m<sup>2</sup> 5 000</p> <p><b>Earthworks:</b></p> <p>2 Remove topsoil to nominal depth of 150mm, stockpile and maintain</p> <p style="text-align: right;">m<sup>3</sup> 800</p> <p><b>BULK EARTHWORKS</b></p> <p>4 Cut to fill for forming sportsfield terraces</p> <p style="text-align: right;">m<sup>3</sup> Rate Only</p> <p>5 Cut to stockpile existing G5 material in running track parking areas for rehabilitating excavation for topsoil</p> <p style="text-align: right;">m<sup>3</sup> 1 050</p> <p>6 Stockpile to fill for rehabilitating topsoil excavations</p> <p style="text-align: right;">m<sup>3</sup> 1 200</p> <p>7 Extra over excavation in soft excavation for excavation in intermediate material excavation.</p> <p style="text-align: right;">m<sup>3</sup> Rate Only</p> <p>8 Importation of G6 material for forming sportsfield terraces compacted to a density of at least 93% Mod. AASHTO maximum density from:</p> <p>a) Commercial sources</p> <p style="text-align: right;">m<sup>3</sup> Rate Only</p> <p>b) From borrow pits within 10km</p> <p style="text-align: right;">m<sup>3</sup> Rate Only</p> <p>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.</p> <p style="text-align: right;">m<sup>3</sup> Rate Only</p> <p>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.</p> <p style="text-align: right;">m<sup>3</sup> Rate Only</p>		
SEC 2 BILL : 1	Total Caried Forward		

## SECTION 2 EXTERNAL WORKS

## BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE , ETC

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
SEC 2 BILL : 1	Brought Forward			
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. <u>m<sup>2</sup></u> <u>Rate Only</u>			
	LAYERWORKS			
12	Rip and re-compact 150mm terrance material and re-shape to specified levels and grades in running tracks, internal roads and parking areas <u>m<sup>2</sup></u> <u>1 050</u>			
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 <u>m<sup>3</sup></u> <u>200</u>			
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 <u>m<sup>3</sup></u> <u>200</u>			
	(C) Gravel Access Roads <u>m<sup>3</sup></u> <u>300</u>			
	LANDSCAPING AND GRASSING			
	<b>Trimming</b>			
15	Machine trimming <u>m<sup>2</sup></u> <u>2 000</u>			
16	Hand trimming <u>m<sup>2</sup></u> <u>1 000</u>			
	RETAINING WALLS			
17	Construct retaining wall using precast concrete blocks in banks <u>m<sup>2</sup></u> <u>140</u>			
18	20 MPa mass concrete foundationm <u>m<sup>3</sup></u> <u>15</u>			
19	Infill soil backfill using materials from site excavations <u>m<sup>3</sup></u> <u>100</u>			
SEC 2 BILL : 1	Total Caried Forward			

## SECTION 2 EXTERNAL WORKS

## BILL NO. 1 GENERAL SITEWORKS, SITE CLEARANCE , ETC

ITEM NO	99 DESCRIPTION	QUANTITY	RATE	AMOUNT
SEC 2 BILL : 1	Brought Forward			
19	<p>TOPSOIL AND GRASS PLANTING (CPAP WORK GROUP NO. 104)</p> <p><b>Earthworks:</b></p> <p>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 <span style="float: right;">m<sup>3</sup> 4 500</span></p> <p>(b) Other areas specified by the Engineer <span style="float: right;">m<sup>2</sup> 600</span></p>			
20	<p><b>Mechanical Stabilisation</b></p> <p>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 <span style="float: right;">m<sup>3</sup> 50</span></p>			
21	<p><b>Supply and plant grass:</b></p> <p>Supply and Grass planting to level areas with Cynadon Dactylon including all necessary rolling, watering and mowing.</p> <p>(a) Supply and delivery to site by supplier <span style="float: right;">m<sup>2</sup> 4 500</span></p> <p>(b) Contractor's Profit on item 21(a) above. <span style="float: right;">% R 150 000</span></p> <p>(cb) Supply and spread compost in accordance with supplier's specification <span style="float: right;">m<sup>3</sup> 4 500</span></p>		P.Sum	150 000.00
22	<p>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. <span style="float: right;">Sum 1</span></p>			
23	<p>Established lawn planting to banks with Cynadon Dactylon grass as described, including all necessary fertiliser, weed killer, watering and rolling, mowing, etc. <span style="float: right;">m<sup>2</sup> 1 000</span></p>			
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
	<b>SECTION 2</b>			
	<b>BILL NO. 2 : SURFACE WATER DRAINAGE CHANNELS</b>			
	<b>EARTHWORKS OTHER THAN BULK</b>			
1	Excavation in earth not exceeding 1m deep			
	(a) Trenches	m <sup>3</sup> 210		
2	Extra over excavations in earth for excavation in			
	(a) Intermediate material	m <sup>3</sup> NIL		
	(b) Hardrock	m <sup>3</sup> NIL		
3	<b>Earth filling obtained from excavations and/or prescribed stock piles, on site compacted to 95% Mod AASHTO density</b>			
	(a) Selected granular material (Fill Bracket)	m <sup>3</sup> 50		
	<b>STORMWATER PIPES</b>			
	<b>uPVC Pipes</b>			
4	315mm Class 12 uPVCs laid in ground,	m 30		
	<b>Class 100D concrete pipes in class C bedding</b>			
	450mm Pipes laid in and <b>including excavation</b> , 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 exceeding 2,0m deep	m 10		
	600mm Pipes laid in and <b>including excavation</b> , 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 exceeding 2,0m deep	m 10		
	<b>BEDDING</b>			
	<b>Provision of Bedding to Trenches</b>			
5	Selected granular material	m <sup>3</sup> 5		
6	From borrow pits	m <sup>3</sup> 5		
SEC 2 BILL : 2	Total Caried Forward			

## SECTION 2 EXTERNAL WORKS

## BILL NO. 2 SURFACE WATER DRAINAGE CHANNELS

ITEM NO	99 DESCRIPTION	QUANTITY	RATE	AMOUNT
SEC 2 BILL : 2	Brought Forward			
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 <b>Building Apron Slabs</b>	m	50	
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 <b>Play Ground</b>	m	350	
9	Spilling basin at end of surface water channel, comprising 1,5m <sup>2</sup> of 80mm thick concrete Class 25/19 graded to falls and currents and finished smooth with Class U2 Wood Float Finish, and 1,5m <sup>2</sup> dispersal area of 19mm concrete stone aggregate 100mm thick. including all necessary excavation and formwork.	No.	2	
10	<b>Inlet Chamber</b> 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	No.	1	
	<b>Gabions</b>			
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	m <sup>3</sup>	40	
13	Galvanised gabion mattresses of 300mm x 2.0m x 6.0m of 2.2 mm mesh wire	m <sup>3</sup>	10	
SEC 2 BILL : 2	TOTAL CARRIED SECTION SUMMARY PAGE			

## SECTION 2 EXTERNAL WORKS

## BILL NO. 3 ROADWORKS

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	<b>SECTION 2</b>			
	<b>BILL NO. 3 : ROADWORKS</b>			
	RESHAPING OF EXISTING ROADS			
1	Re-shapining of existing 6.0m wide road	km	Rate Only	
	TREATMENT OF ROAD-BED			
2	Light Roadbed preparation, moisten and compact to 93% Mod. AASHTO density	km	Rate Only	
	GRAVEL WEARING COURSE			
3	Construction 150mm thick gravel wearing course on internal 7 driveways and parking areas using G5 material from commercial source <b>including hauling to site</b>	m <sup>3</sup>	250	
4	Extra over all items requiring G5 material from borrowpit for overhaul in excess of 6km	km-m <sup>3</sup>	Rate Only	
	INTERLOCKING PAVING BLOCKS			
5	<b>Layer Works</b>			
6	<b>Import G2 quality material from an approved source, water spread and compact to 87% Relative Density for</b>			
	(a) Under Paving to walkways (100mm thick)	m <sup>3</sup>	5	
	(b) Under Driveway and Parking Areas (150mm thick)	m <sup>3</sup>	160	
7	<b>Paving Blocks in Sidewalks, Driveways and Parking Areas</b> 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	m <sup>2</sup>	1 050	
	(b) 221x111x60mm G-Block Interlocking pavers for walkways around Chess Areas	m <sup>2</sup>	25	
8	Precast concrete kerbing Figure 7	m	300	
9	Precast concrete kerbing Figure 6 (running track edgin	m	900	
	CAST IN-SITU CONCRETE PAVING			
10	25MPa Concrete Paving including power floating	m <sup>3</sup>	5	
11	Wire Mesh Ref. 617	kg	125	
SEC 2 BILL : 3	TOTAL CARRIED SECTION SUMMARY PAGE			

## SECTION 2 EXTERNAL WORKS

## BILL NO. 4 GRANDSTANDS

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
1	<b>SECTION 2 BILL NO. 4 : GRANDSTANDS</b>			
	<b>Earthworks</b>			
	(a) Excavation in all material class for foundations	m <sup>3</sup> 25		
	(b) Reduce levels in earth not exceeding 1.0m deep	m <sup>3</sup> 55		
2	<b>Formwork Class F2 Smooth Finish to:</b>			
	(a) Surfacebeds	m <sup>2</sup> 40		
	(b) Stub columns	m <sup>2</sup> 40		
3	<b>Cast Insitu Concrete Paving and Stub Columns</b>			
	(a) 25MPa Concrete in foundations and stub columns	m <sup>3</sup> 15		
	(b) 20MPa concrete in surfacebed (125mm thick)	m <sup>3</sup> 35		
4	<b>Reinforcement</b>			
	(a) Welded wire mesh Ref. 245	kg 1 000		
	(b) 10mm High yield reinforment	Tonne 0.40		
	(c) 16mm High yield reinforment	Tonne 1.00		
5	<b>Steel Structure : Main Covered Grandstand complete with roof sheeting</b>			
	(a) Fabricate, deliver to site and instal covered grand stand including holddown bolts as per drawing	Item 1	Prov. Sum	1 400 000.00
	(b) Profit on above item.	% R 1 400 000		
	(c) Scaffolding for erection of steel structure	Item 1	Prov. Sum	50 000.00
	(d) Expanded metal mesh	m <sup>2</sup> 40		
6	<b>Steel Structure : Minor Covered Grandstand complete with roof sheeting</b>			
	(a) Fabricate, deliver to site and instal covered grand stand including holddown bolts as per drawing	Tonne NIL		
	(b) Profit on above item.	% NIL		
	(c) Scaffolding for erection of steel structure	Item NIL		
	(d) 0.5mm Galvinised IBR sheet	m <sup>2</sup> NIL		
	(e) Expanded metal mesh	m <sup>2</sup> NIL		
SEC 2 BILL : 4	Total Caried Forward			

## BILL NO. 4 GRANDSTANDS

C19.13

## 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 welded wire fences using existing material:	m 300		
2	Make-Up deficiency in fencing material welded wire fences using existing material:	Item 1	P.Sum	25 000.00
3	Contractor's Mark-up on Item 2 above	% R 25 000		
SEC 2 BILL : 5	TOTAL CARRIED SECTION SUMMARY PAGE			

**Part C2 : Pricing Data**

**PHEPHENI SPORTS FACILITY - PHASE 2**

**SECTION 3**

**ELECTRICAL INSTALLATIONS**

**SECTION 3 : ELECTRICAL RETICULATION****BILL NO. 1 : ELECTRICAL INSTALLATION (PROVISIONAL BILL)**

ITEM NO	DESCRIPTION	RATE	AMOUNT
	<p>The Tenderer is referred to the relevant clauses in the General Electrical Specification and the Detailed Electrical Specification which are incorporated in these Bills of Quantities.</p> <p><b>ESKOM POWER INSTALLATIONS AND CONNECTION</b></p> <p>The following Net Sums have been allocated for Eskom costs pertaining to the re-routing of the existing line and the upgrading of the supply to the school. The Tenderer shall include these Sums in the Tender Price.</p> <p>These applications may be handled Departmentally, in which case these Sums will be omitted from the contract.</p> <p><b>Re-scheduling of Electrical Items:</b></p>		
3	<p>Allow the Net Sum of <b><u>R100,000.00</u></b> (One hundred and forty thousand Rand) for All Electrical Works as scheduled by appointed Electrical Engineer</p> <p style="text-align: right;">Item</p>	Prov. Sum	100 000.00
2	<p>Profit on above item. % <u>R 100 000</u></p>		
3	<p>Allow the Net Sum of <b><u>R2,000,000.00</u></b> (Two million Rand) for supply and instal</p> <p><b>2 No. Off Flood Lights</b></p> <p style="text-align: right;">Item</p>	Prov. Sum	2 000 000.00
2	<p>Profit on above item. % <u>R 2 000 000</u></p>		
<b>SEC 3 BILL : 1</b>	<b>TOTAL CARRIED TO SUMMARY</b>		



**GENERAL SUMMARY**

ITEM NO	DESCRIPTION	FROM PAGE	AMOUNT
1	<b>SECTION 1: PRELIMINARIES AND GENERAL PROVISIONS</b> PRELIMINARIES AND GENERAL PROVISIONS	C20.04	
2	<b>SECTION 2: EXTERNAL WORKS : SECTION SUMMARY</b> BILL No. 1 : GENERAL SITEWORKS, SITE CLEARANCE, ETC  BILL No. 2 : SURFACE WATER DRAINAGE CHANNELS  BILL No. 3 : ROADWORKS  BILL No. 4 : GRANDSTANDS  BILL No. 5 : RE-ALIGNMENT OF BOUNDARY FENCE	C20.08  C20.10  C20.11  C20.13  C20.14	
3	<b>SECTION 3: ELECTRICAL INSTALLATION</b>	C20.16	
	<b>TOTAL CARRIED TO GENERAL SUMMARY</b>		

**CALCULATION OF TENDER SUM**

**SUBTOTAL (1) OF SCHEDULE OF QUANTITIES** ..... R \_\_\_\_\_

**CONTINGENCIES**

The sum provided here is under the sole control of the Engineer and may be deducted in whole or in part.

(The Tenderer must add **7.0%** of Subtotal (1)) ..... R \_\_\_\_\_

**CONTRACT PRICE ADJUSTMENT**

Sum provided in terms of the provisions of the General Conditions of Contract

**(Not Applicable to This Contract)** ..... R \_\_\_\_\_

**SUBTOTAL (2) OF SCHEDULE OF QUANTITIES** ..... R \_\_\_\_\_

**VALUE-ADDED TAX (VAT)**

The tenderer shall add 15% of subtotal (1) for VAT ..... R \_\_\_\_\_

**TENDER SUM CARRIED TO FORM OF TENDER** ..... R