

## LEPELLE-NKUMPI LOCAL MUNICIPALITY

## SCHEDULE OF QUANTITIES

## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 1: PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>1</b>	<b>SABS 1200 A</b>	<b><u>PART 1: GENERAL</u></b>				
		<b><u>SECTION: PRELIMINARY AND GENERAL</u></b>				
<b>1.1</b>	<b>8.3</b>	<b>FIXED-CHARGE AND VALUE-RELATED ITEMS</b>				
1.1.1	8.3.1	Contractual requirements	Sum	1		
1.1.2	8.3.2	Establishment of facilities on the site				
1.1.2.1	8.3.2.1	Facilities for Engineer				
		(c) Nameboards (1 No.) (refer to drawing 13)	No	1		
1.1.2.2	8.3.2.2	Facilities for Contractor	Sum	1		
1.1.3	8.3.3	Other fixed-charge obligations	Sum	1		
1.1.4	8.3.4	Removal of site establishment	Sum	1		
<b>1.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
1.2.1	8.4.1	Contractual requirements	Sum	1		
1.2.2	8.4.2	Operation and maintenance of facilities on site, for duration of construction, except where otherwise stated.				
1.2.2.1	8.4.2.1	Facilities for Engineer				
		(b) Telephone (Cellphone)	Prov Sum	1		5 000,00
		(c) Survey assistant & equipment	Sum	1		
<b>1.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
		(1) For work to be executed by the Employer or a nominated subcontractor				
		(i) Additional tests ordered by Engineer	Prov Sum			10 000,00
		(ii) Project Steering Committee	Prov Sum			7 000,00
		(iii) Community Liaison Officer	Prov Sum			22 500,00
		(iv) Student Trainee	Prov Sum			37 500,00
		(v) Compilation of a complete Operation and Maintenance Manual inclusive of all facilities provided under this project. (3 copies of )	Prov Sum			5 000,00
		(2) Overheads, charges and profit on (1) above				
		(i) Additional tests ordered by Engineer	%	10 000		
		(ii) Project Steering Committee	%	7 000		
		(iii) Community Liaison Officer	%	22 500		
		(iv) Student Trainee	%	37 500		
TOTAL SCHEDULE A - SECTION 1 CARRIED TO SUMMARY:						

## LEPELLE-NKUMPI LOCAL MUNICIPLAITY

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## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 2: SITE CLEARANCE

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>2</b>		<b><u>PART 2: SITE CLEARANCE</u></b>				
<b>2.1</b>	<b>SABS 1200 C</b>	<b><u>SECTION 2.1: SITE CLEARANCE</u></b>				
2.1.1	8.2.1	Clear and grub and dispose of all surplus and unsuitable material.	ha	3,1		
	8.2.2	Remove and grub large trees and tree stumps of girth				
		(a) Over 1m and up to and including 2m	No	100		
	PSC 8.2.11	Supply and erect precast 2,4m high concrete palisade security fence with top and bottom rails, palings 2,4m long at 145mm centers cast in 25Mpa concrete,				
		(a) Install a gate of 50mm diameter framing 1,3x2,4m high vertically with both stiles extended at the top form 450mm @45degrees over hang to suit security fencing and with one diagonal brace and vertical section covered with 50x50x2,5 galvanized welded wire mesh fixed to framing and across brace including sliding lock and 50mm padlock	m	1 000		
		(b) Extra over item 8,2,11 above for corners or gate posts	No	90		
		(b) Purpose-made security double gate 4,5 m wide x 2,4 m high with vertical extension to match the fence, 100 mm wide x 300 mm deep concrete ground beam, locking device, barrel bolts, etc	No	2		
TOTAL SCHEDULE A - SECTION 2 CARRIED TO SUMMARY:						

## LEPELLE-NKUMPI LOCAL MUNICIPLAITY

## SCHEDULE OF QUANTITIES

## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 2: WATER RETICULATION

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>3</b>		<b><u>PART 3: WATER RETICULATION</u></b>				
<b>3.1</b>	<b>SABS 1200 C</b>	<b><u>SECTION 3.1: SITE CLEARANCE</u></b>				
3.1.1	8.2.1	Clear and grub 1m wide and dispose of all surplus and unsuitable material.	m	925		
<b>3.2</b>	<b>SABS 1200 DB</b>	<b><u>SECTION 3.2: EARTHWORKS (PIPE TRENCHES)</u></b>				
3.2.1	8.3.2	Excavation				
	PSDB-8.3.2	(b) Excavate in all materials and use for embankment or backfill, or dispose of or temporarily stockpile surplus material, as ordered:				
		(i) With Labour intensive methods (pickable material, maximum depth 1,5m)	m <sup>3</sup>	740		
		(ii) Conventional methods (Soft material, over 1,5m and up to 3,0m)	m <sup>3</sup>	740		Rate Only
		(c) Extra over item (b) above for:				
		(2) Hard rock excavation	m <sup>3</sup>	74		
3.2.2	8.3.3	Excavation Ancillaries				
		Make up deficiency in backfill material (Provisional)				
		(a) From other necessary excavations on site.	m <sup>3</sup>	370		
3.2.3	8.3.5	Existing Services that Intersect or Adjoin a Pipe trench				
		(a) Services that intersect a trench	No	3		
3.2.4	8.3.4	Particular items				
	PSDB-8.3.4	(b) Control water inflow and keeping excavations dry	Sum	1		
<b>3.3</b>	<b>SABS 1200 LB</b>	<b><u>SECTION 3.3: BEDDING (PIPES)</u></b>				
3.3.1	8.2.1	Provision of Bedding from Trench Excavation				
		(a) Selected granular material	m <sup>3</sup>	74		
		(b) Selected fill blanket material	m <sup>3</sup>	222		
3.3.2	8.2.2	Supply only of Bedding by Importation				
	8.2.2.1	From other necessary excavations (Provisional)				
		(a) Selected granular material	m <sup>3</sup>			Rate Only
		(b) Selected fill blanket material	m <sup>3</sup>			Rate Only
3.3.3	8.2.4	Encasing of Pipes in Concrete	m <sup>3</sup>	3		
3.3.4	PSLB-8.2.6	Screening of selected bedding material	m <sup>3</sup>	148		
TOTAL SCHEDULE A - SECTION 3 CARRIED TO SUMMARY:						

## LEPELLE-NKUMPI LOCAL MUNICIPLAITY

## SCHEDULE OF QUANTITIES

## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 2: WATER RETICULATION

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>3.4</b>	<b>SABS 1200 L</b>	<b><u>SECTION: MEDIUM PRESSURE PIPELINES</u></b>				
3.4.1	8.2.1	Supply, Lay and Bed Pipes Complete with Couplings				
		(a) uPVC pipes with Couplings				
		(i) 50mm dia Class 9	m	220		
		(ii) 75mm dia Class 9	m	710		
		(b) HDPE Pipes with Couplings				
		(i) 20mm HDPE Pipe	m	150		
		(ii) 50mm HDPE Pipe	m	110		
3.4.2	8.2.2	Extra-over 8.2.1 and 8.2.16 for the Supplying, Laying and Bedding of Specials Complete with Couplings				
		(a) uPVC Fittings Class 16				
		(1) 50mm dia				
		(i) 11¼° Bends	No	2		
		(ii) 45° Bends	No	2		
		(2) 75mm dia				
		(i) 11¼° Bends	No	1		
		(ii) 22½° Bends	No	9		
		(ii) 45° Bends	No	2		
		(iii) 90° Bends	No	1		
		(b) HDPE Fittings				
		(1) 50mm dia HDPE				
		(i) 25° Bends	No	2		
		(ii) 45° Bends	No	1		
		(iii) 90° Bends	No	3		
3.4.3	8.2.2	(a) Specials and Fittings - Cast Iron Equal Tees: (Bitumen dipped and LAYING sockets on all sides all to SABS 546 and SABS 966.)				
		63 mm dia.	No.	2		
		75 mm dia.	No.	5		
		(b) Specials and Fittings - Cast Iron Reducers:				
		(i) 75 x 50 mm dia.	No.	3		
TOTAL - SECTION 2 CARRIED TO FORWARD TO THE NEXT PAGE:						

ITEM NUMBER	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL - SECTION 2 BROUGHT FROM THE PREVIOUS PAGE:						
3.4.3	8.2.5	<b>SPECIAL AND FITTINGS -VALVES:</b>  Specials and Fittings - Gate Valve:  AVK RSV Gate Valve  (i) DN50 mm Gate Valve  (ii) DN75 mm Gate Valve	No.   No.	2   2		
3.4.4	8.2.13	Valve Chambers:  Valve chamber - As per detail complete including excavation, materials, plant, labour and incidentals, as per detail drawings.  (i) Gate Valve Chamber	No.	3		
3.4.5	8.2.11	Anchor/Thrust Blocks and Pedestals  (a) Concrete blocks, including shuttering, as detailed on the drawings.  (i) T-Connections & Ends  (ii) Bends  (iii) Slopes steeper than 1:10	m³  m³  m³	7  17  3		
TOTAL - SECTION 3 CARRIED TO SUMMARY:						

## LEPELLE-NKUMPI LOCAL MUNICIPLAITY

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## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 3: SEWER RETICULATION

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4.0		<b>PART 4: SEWER RETICULATION</b>				
4.1	<b>SANS 1200 DB</b>	<b>SECTION: EARTHWORKS (PIPE TRENCHES)</b>				
4.1.1	8.3.1	Site Clearance and removal of topsoil				
		(a) Clear Vegetation and trees of girth up to 1m, strip 3m wide	m	206		
4.1.2	8.3.2	Excavation				
	(PSDB)	(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material (1) Up to 160 mm dia pipes for depths Over and up to (1) 1,0 m 1,5 m	m	180,00		
		(2) 1,5 m 2,0 m	m	35,00		
	(PSDB)	(c) Extra-over item (a) above for : (2) hard rock excavation	m <sup>3</sup>	8		
		(d) Excavate and dispose of unsuitable material from trench bottom (provisional)	m <sup>3</sup>	5		
	(PSDB)	(e) Extra over (d) for Hardcore filling of 35 mm to 75 mm crushed stone to trench bottom.	m <sup>3</sup>			Rate Only
	(PSDB)	(f) Extra over item 8.3.2 for excavation by hand in all materials adjacent to existing services, including backfilling and/or disposal of surplus material (all depths)	m <sup>3</sup>	5		
4.1.3	8.3.3	Excavation ancillaries				
4.1.3.1	8.3.3.3	Compaction in road reserves	m <sup>3</sup>	12		
4.2	<b>SANS 1200 LB</b>	<b>SECTION : BEDDING (PIPES</b>				
4.2.1	8.2.2	Supply only of bedding by importation				
4.2.2	8.2.2.3	From commercial sources (provisional)				
		(a) Selected granular material	m <sup>3</sup>	32		
		(b) Selected fill material	m <sup>3</sup>	95		
4.2.3	8.2.3	Concrete bedding cradle of class 20 MPa/13 mm concrete (provisional)	m <sup>3</sup>	1		
	(PSLB)	Screening of selected bedding material	m <sup>3</sup>	1		
4.3	<b>SANS 1200 LD</b>	<b>SECTION : SEWERS</b>				
4.3.1	8.2.1	Supply, lay, joint, bed and test pipelines				
		(a) Maincore 400 kPa uPvc solid wall sewer pipes on Class B Bedding or approved similar				
		(1) 160 mm diam	m	206		
<b>TOTAL 4 - SECTION 4 CARRIED TO SUMMARY:</b>						

ITEM NUMBER	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>TOTAL 4 - SECTION 4 CARRIED TO SUMMARY:</b>						
4.3.2	8.2.3 (PSLD)	Manholes Manholes as per detailed drawings with Type 2A cast iron frame and concrete cover: (a) 1000 mm dia chamber for depths:  Over and up to (i) 1,0 m 2,0 m	No	5		
4.3.3	8.2.7	Encasing of pipes in grade 20 MPa/13 mm concrete (provisional) (a) 110 mm dia pipes	m <sup>3</sup>	1		
4.3.4	8.2.8	Anchor blocks, concrete mix 20 MPa (inclusive of formwork) Permanent Plug stoppers (i) 100mm diameter	m <sup>3</sup>  No	1  1		
<b>TOTAL 4 - SECTION 4 CARRIED TO SUMMARY:</b>						

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## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 5: ANCILLARY WORKS

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6		<b><u>PART 6: ANCILLARY WORKS:</u></b>				
6.1	PSH 8.3.1	<b><u>SECTION 6.1 BOREHOLE</u></b> Drilling, Tesiting ,Equiping of borehole and conecting to the electrical connetion  Contractors handling cost,profit and other chargers in respect to item 1 and 2	Prov Sum  %	1  75 000		75000
6.2	PART SPEC PMB	<b><u>SECTION 6.2: PUMPS</u></b>  Supply, delivery, installation, testing, commissioning and maintenance of clearwater pumps, as specified or similar approved  (1) Howden HMW65/2 pumpset complete with baseplate and motor  Alternative to item 5.5.1 (1) for pumpset complete with baseplate and motor  Make .....Model .....  Size ..... Pump Speed .....	No    No	1		Rate Only
6,3		10 000 Litre polyethylene water tank (Jo Jo make or equivalent). (2980mm high x 2 200mm diameter). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad). (2 Strands/Anchor)  Fabricated steel tank stand with 4,2m long legs, constructed complete, (incl. excavations and concrete footings 500mm length x500mm breath x 700mm deep), inclusive of all inlet, overflow and outlet pipe components and 2 stand taps.  Electrical components and connections for the functionality of the water supply infrastructure	Prov Sum	1	80 000,00	80 000,00
TOTAL 6 - SECTION 6 CARRIED TO SUMMARY:						



## SCHEDULE OF QUANTITIES

## SECTION 6: SOCCERFIELD

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7		<b><u>PART 7: SOCCER FIELD</u></b>				
7.1	SANS 1200 C	<b>SITE CLEARANCE</b>				
7.1.1	8.2.1	Clear and grub (remove material from site.) Rate to include all costs.	m <sup>2</sup>	7900		
7.1.2	8.2.10	Remove topsoil to nominal depth of 150 mm and stockpile	m <sup>3</sup>	790		
7.2	SANS 1200 DM	<b>SECTION: EARTHWORKS (FIELD, SUBGRADE)</b>				
7.2.1	8.3.3	<b>Treatment of Field-bed</b> (a)Field-bed peparation and compaction of material to  (1) 100mm minimum to 93 % of modified AASHTO maximum density	m <sup>3</sup>	1185		
	8.3.4	<b>Cut to fill, borrow to fill</b> (a) Compact to 90% of modified AASHTO maximum density	m <sup>3</sup>	8200		
	8.3.7	<b>Cut to spoil</b> (a) Soft Excavation  (c) Hard Excavation	m <sup>3</sup>  m <sup>3</sup>	5860  293		
7.2.2	SANS3500	<b>3500: STABILIZATION</b>				
	35.01	<b>Chemical stabilisation extra-over unstabilized compacted layers:</b> (a) base layer : 100mm thickness	m <sup>3</sup>	900		
	B35.02	<b>Chemical stabilising agent:</b> (a) CEM II A/L 32.5 cement	t	117		
	35.04	<b>Provision and application of water for curing</b>	kl	844		
7.2.2	8.3.13	<b>Surface finishes</b> (a) Topsoiling 150mm thick layer  (b) Weed Killer  (i) Allow for the manual removal of all weeds, bushes, etc. from the area and treating of the soil with an approved weed killer to total eradicate all weeds before planting of new grass  (c) Grassing Kikuyu grass with weed free sods approximately 500 x 500 x 75mm thick  (d) Fertilizing  (i) Supply, spread and mix natural organic composito into top 150mm topsoil including levelling before planting  (ii) Fertilizing top soil with 8:1:5 fertilizer spread at a rate of 0,05kg/m2 including working evenly into top 150mm depth of soil  (iii) Fertilizing top soil with 8:1:5 fertilizer spread at a rate of 0,03kg/m2 and well irrigated after completion of planting  Supply and installation of CapMaxx vt-32 Synthetic Turf,Enka flex shock-pad, Synthetic Turf glue and joining tape, Geotextile cloth A4 grade (membrane),Silica sand,SBR sized 3,5mm rubber, Line marking and 2 Goal post (painted in white with nets)	m <sup>2</sup>   m <sup>2</sup>  m <sup>2</sup>  m <sup>2</sup>  m <sup>3</sup>  m <sup>2</sup>  m <sup>2</sup>			
7.3			Prov Sum	1	2 300 000,00	2 300 000,00
<b>TOTAL - SECTION 7 CARRIED TO FORWARD TO THE NEXT PAGE:</b>						

TOTAL - SECTION 6 BROUGHT FROM THE PREVIOUS PAGE:						
7.4		<b>Maintanance</b>  (i) Allow for a 1 year period to maintain the Astro Turf leaving all areas level and free from water	Prov Sum	1	60 000,00	60 000,00
TOTAL - SECTION 7 CARRIED TO SUMMARY:						

LEPELLE-NKUMPI LOCAL MUNICIPLAITY  
SCHEDULE OF QUANTITIES  
CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

SECTION 8: OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8		<b><u>PART B: OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS</u></b>				
		<b>Provision for accredited training</b>				
8.1		Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Lump Sum	1		
8.2		Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Month	5		
8.3		Submission of the Health and Safety File	Lump Sum	1		
TOTAL - SECTION 7 CARRIED TO SUMMARY:						

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SECTION 9: TRAINING

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9		<b>PART 9: STRUCTURED TRAINING</b>				
		<b>Provision for accredited training</b>				
		(a) Generic Skills	Prov Sum	1		30 000,00
		(b) Entrepreneural Skills	Prov Sum	1		30 000,00
		(c) Handling cost and profit in respect of sub-item C2.1(a) and (b) above	%	60 000,00		
		(d) Training venue (Only if required)	Lump Sum			
TOTAL - SECTION 7 CARRIED TO SUMMARY:						60 000,00

LEPELLE-NKUMPI LOCAL MUNICIPLAITY  
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SECTION 7: PROVISIONAL SUMS

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10		<b><u>PART 10: PROVISIONAL SUMS</u></b>				
10.1		Provision for the Construction of the Ablusion Blocks & Septic Tank	Prov Sum			175 000,00
10.2		Eskom Power Connections	Prov Sum			200 000,00
10.3		Provision for Soccerfield Lighting	Prov Sum			100 000,00
10.4		All weathered surface combi court for Netball, Basketball and Tennis	Prov Sum			300 000,00
TOTAL 8 - SECTION 8 CARRIED TO SUMMARY:						775 000,00

## LEPELLE-NKUMPI LOCAL MUNICIPALITY

## SCHEDULE OF QUANTITIES

## CONSTRUCTION OF LEKURUNG RECREATIONAL FACILITIES

## SECTION 11: DAYWORKS

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11		<b><u>PART 11: DAYWORKS</u></b>				
11.1	<b>SABS 1200A</b>	<b><u>SECTION: DAYWORKS</u></b>				
		Site Agent	hour	1		Rate only
		Forman	hour	1		Rate only
		Gang Supervisor	hour	1		Rate only
		Pipe Fitter	hour	1		Rate only
		Labourer	hour	1		Rate only
		Back-actor/ Excavator	hour	1		Rate only
		10 Ton Truck with Crane	km	1		Rate only
		Light Delivery Van (Bakkie)	km	1		Rate only
		Concrete Core Drilling Machine	hour	1		Rate only
		Pipe cutting machine	hour	1		Rate only
		Other (Specify)				
TOTAL 9 - SECTION 9 CARRIED TO SUMMARY:						

SECTION	SUMMARY SCHEDULE OF QUANTITIES RECREATIONAL FACILITIES LEKURUNG	CONTRACT NO. LNM 011/2020/21
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PART	DESCRIPTION	AMOUNT
1	PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS	
2	SITE CLEARANCE	
3	DB-PIPE WORKS	
3	L-PIPE WORKS	
4	SEWER	
5	ANCILLARY	
6	SOCCER FIELD	
7	OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS	
8	STRUCTURED TRAINING	
9	PROVISIONAL SUMS	
10	DAYWORKS	
TOTAL SCHEDULE OF QUANTITIES AMOUNT:		

CALCULATION OF TENDER SUM	
TOTAL SCHEDULE OF QUANTITIES AMOUNT BROUGHT FORWARD:	
CONTINGENCIES @ 05%:	
SUB-TOTAL:	
ADD 15% VAT:	
TOTAL TENDER AMOUNT:	