

**UPGRADES AT NYLSVLEI NATURE
RESERVE**

CONTRACT NO. RFP023/2024

SCHEDULE OF QUANTITIES



**DEVELOPMENT BANK OF SOUTHERN AFRICA
UPGRADES AT NYLSVLEI NATURE RESERVE
CONTRACT NUMBER :RFP 023/2024**

SUMMARY OF SCHEDULE

TENDERED AMOUNT R

PRELIMINARIES AND GENERALS

CONSTRUCTION OF PAVED ACCESS ROAD AND PAVING OF CARPORTS

STORMWATER MANAGEMENT

CARPORTS

SECURITY AND STREET LIGHTING

SUB-TOTAL 1

CONTIGENCIES

The sum provided hereunder is for the sole control of the Employer and may be deducted in whole or in part. The tenderer shall allow the sum of **R850 000**

SUB-TOTAL 2

VALUE ADDED TAX (VAT) 15% :

TOTAL CARRIED TO FORM OF OFFER AND ACCEPTANCE

DEVELOPMENT BANK OF SOUTHERN AFRICA

UPGRADES AT NYLSVLEI NATURE RESERVE

CONTRACT NUMBER :RFP 023/2024

SCHEDULE OF QUANTITIES SECTION :PRELIMINARIES AND GENERALS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
1	PRELIMINARIES AND GENERALS @ 10%	Sum	1.00	R	-
	Contractual Requirements				
	Site establishment & Destablishment				
	Offices and storage sheds				
	Workshops				
	Living accommodation				
	Ablution and latrine facilities				
	Tools and equipment				
	Transport				
	Project Management & Supervision				
	General responsibilities and other obligations				
2	PROVISIONAL SUMS				
2.1	Allow a provisional amount of thirty six thousand rand (R36000) for remuneration of Community Liason Officer	Prov Sum	1.00		
	Allow for profit and attendance for above	item	1.00		
		Prov Sum	1.00		
2.2	Allow a provisional of one hundred and fifty thousand(R150000) for testing required by the Engineer	item			
	Allow for profit and attendance for above				
3	COMPLIANCE WITH OHS ACT AND CONSTRUCTION REGULATIONS 2014				
	Provision of personal protective equipment (PPE)	Sum	1.00		
	Provision of signages	Sum	1.00		
	Provision of training	Sum	1.00		
	Provision of full time health and safety officer (SACPCMP REGISTERED)	Sum	1.00		
	Provision of medical certificates and medical surveillance including Initial (baseline) medical examinations, periodic examinations, and exit examinations	Sum	1.00		
	Provision of first aid boxes and emergency rescue kit	Sum	1.00		
	Preparation of site specific health and safety plan	Sum	1.00		
	Preparation of health and safety plan	Sum	1.00		
BALANCE BROUGHT FORWARD					

DEVELOPMENT BANK OF SOUTHERN AFRICA

UPGRADES AT NYLSVLEI NATURE RESERVE

CONTRACT NUMBER :RFP 023/2024

SCHEDULE OF QUANTITIES SECTION :PRELIMINARIES AND GENERALS

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
4	DAYWORKS AND TEMPORARY WORKS				
	Note:Dayworks Executed on the Instruction of the Engineer only				
	1. LABOUR				
	a) Unskilled	hr			Rate Only
	b) Semi skilled	hr			Rate Only
	c) Foreman	hr			Rate Only
	d) Artisan	hr			Rate Only
	e) Surveyor	hr			Rate Only
	2. Grader (240kW/min) and operator	hr			Rate Only
	3.Bulldozer (D7 min Cap) and operator	hr			Rate Only
	4.Grid roller with tractor and operator (8T)	hr			Rate Only
	5.Front End Loader (0.9 m3) and operator	hr			Rate Only
	6. Truck (6m3) and driver	hr			Rate Only
	7. Truck (10m3) and driver	hr			Rate Only
	8. Concrete mixer (0.33m3 cap.)	hr			Rate Only
	9. Pneumatic tyred roller and operator	hr			Rate Only
	10.Backactor (600mm bucket) and operator	hr			Rate Only
	11. Compressor c.w drills,jackhammers etc	hr			Rate Only
	12. Vibrating plate compactor	hr			Rate Only
	13. Vibrating roller compactor (600mm)	hr			Rate Only
	14. Watercraft driver and operator	hr			Rate Only
	15. Tractor loader Backhoe (TLB) and operator	hr			Rate Only
	BALANACE CARRIED TO SUMMARY				

DEVELOPMENT BANK OF SOUTHERN AFRICA						
UPGRADES AT NYLSVLEI NATURE RESERVE						
CONTRACT NUMBER :RFP 023/2024						
SCHEDULE OF QUANTITIES SECTION :CONSTRUCTION OF PAVED RING ROAD AND PAVING OF CARPORTS						
ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
2.1	SABS 1200DM	EARTHWORKS				
		Treatment of roadbed				
2.1.1		(a) Roadbed treatment preparation and compaction of material to minimum of 90% modified AASHTO maximum density	m³	1,243		
2.4	SABS 1200ME	SUBBASE				
		Construct subbase with material from designated borrowpits or commercial sources				
		G6 material compacted to 98% of MOD AASHTO maximum density in layers not exceeding 150mm	m³	1,188		
2.5	SABS 1200MF	BASE				
		Construct base with material from designated borrowpits or commercial sources				
2.5.1	8.3.3	G5 material compacted to C3 stabilised material to 98% of MOD AASHTO maximum density in 150mm	m³	1,188		
2.5.2	8.3.5	Process base material by stabilisation	m³	1,188		
2.5.3	8.3.8	Stabilising Agent(cement)	t	71		
2.6	SABS 1200MJ	PAVING				
2.6.1		Supply and place a layer of 25mm bedding sand on top of the compacted roadworks	m³	207		
2.6.2		Labour only for laying 80mm interlocking paving blocks on top of the bedding sand	m²	8,287		
2.6.3		Supply Install a fig 3 concrete kerbs around the perimeter of the paved area (rate must include concrete haunching)	m	2,640		
2.6.4		Provision of approved herbicide and ant poison	Sum	1.00		
2.6.5		PROVISIONAL SUM FOR TRANSPORTATION OF PAVERS				
		Allow a provisional sum of Nine Hundred and Forty Five Thousand Rand [R945 000] for transportation of Paving bricks from Lekgalametsi to Nylsvlei Nature Reserve including loading and offloading	item	1.00		
		Allow for profit and attendance for above	item	1.00		
2.7		ROAD SIGNS AND MARKINGS				
		Allow a provisional sum of Twenty Thousand Rand [R20 000] for road signs and markings	Prov Sum	1.00		
		Allow for profit and attendance for above	item	1.00		
BALANCE CARRIED TO SUMMARY						-

DEVELOPMENT BANK OF SOUTHERN AFRICA						
UPGRADES AT NYLSVLEI NATURE RESERVE						
CONTRACT NUMBER :RFP 023/2024						
SCHEDULE OF QUANTITIES SECTION :STORMWATER MANAGEMENT						
ITEM NO	PAYMENT REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
3	SANS-1200DB	STORMWATER DRAINAGE				
		EARTHWORKS (PIPE TRENCHES)				
3.1	8.3.1	SITE CLEARANCE				
		a) Clear vegetation and trees of girth up to 1m (2m wide)	ha	0.22		
		c) Remove topsoil upto 200mm	m³	220.00		
3.2	8.302 (a)	Excavation for drains and stormwater pipes				
		a). Excavating in all materials for trenches, backfill and compact including disposal of surplus unsuitable material within for stormwater pipes up to 450 mm in diameter for depths.				
		i. 0 m to 1.0 m	m³	550.00		
		ii. 1.0 m to 2.0 m	m³	550.00		
		b) Extra over item for excavation in intermediate material	m³	440.00		
		c)Extra over item for excavation in hard material	m³	220.00		
		d)Extra over item for excavation in rock	m³	110.00		
3.3	SABS 1200 MK	Chanelling				
	8.2.7	Trimming of excavations for concrete and grass lined open drains				
		a) In soft material	m²	825.00		
		b) In hard material	m²	83.00		
3.4	SABS 1200 G	Concrete lining and grassing for open drains				
	8.2.7	a)Cast in situ concrete lining (25MPa V-drain and trapezoidal)	m³	165.00		
		b)To sides with formwork on both internal and external faces (each face measured)	m²	1,650.00		
		c) Grass lining for open channels	m²	825.00		
3.5		Culverts				
		600mm culverts 100S	m	43.20		
3.6		Provisional sum				
		Allow a provisional sum of One Hundred and Fifty Thousand Rand [R150 000] for erosion protection measures at the culvert outlet structures	Sum	1.00		
3.6.1		Allow for profit and attendance for above	item	1.00		
BALANCE CARRIED TO SUMMARY						

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UPGRADES AT NYLSVLEI NATURE RESERVE

CONTRACT NUMBER :RFP 023/2024

SCHEDULE OF QUANTITIES SECTION :STEEL CARPORTS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
4.10	<u>EXCAVATIONS</u>				
	Excavation in earth not exceeding 2m deep				
4.1.1	Remove topsoil up to 200mm	m ³	55.00		
4.1.2	Excavation for bases	m ³	18.00		
4.20	<u>CONCRETE, FORM WORK AND REINFORCEMENT</u>				
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	25MPa/19mm concrete				
4.2.1	Base	m ³	12.00		
4.30	<u>REINFORCEMENT</u>				
	Steel reinforcement to structural concrete work				
4.3.1	All reinforcement in varying diameters	t	1.00		
4.40	<u>CARPORT STRUCTURE</u>				
4.4.1	Rectangular 120 x 120 x 5 SHS	t	5.50		
4.4.2	Rectangular 200 x 120 x 8 RHS	t	30.60		
4.4.3	PFC 100 X 50 X10	t	0.40		
4.4.4	0.3mm (0.686m width) IBR Galvanised	m ²	367.00		
4.4.5	Fabrication of steelwork on site complete with all necessary cleats, brackets, gussets, packs, flashing etc as follows, with bolts in commercial grade (4.8) and steel to EN10025-2-S355JR Grade S355J, jointing by bolting and welding	t	37.70		
4.4.6	Steel Paintwork to structural steel elements	t	36.90		
	BALANCE CARRIED TO SUMMARY				

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CONTRACT NUMBER :RFP 023/2024

SCHEDULE OF QUANTITIES SECTION :SECURITY AND STREET LIGHTING

ITEM NO	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	AMOUNT R
SECTION 1: SECURITY LIGHTING							
5.1	EXCAVATION						
a	Excavate a trench 450 mm wide x 700 mm deep to lay cable, marker tape, backfill, compaction and reinstatement of surface	M3	157.5				-
b	Excavate a trench 450 mm wide x 700 mm deep to lay cable, marker tape, backfill, compaction and reinstatement of surface. Excavation of 600 mm deep holes for planting of poles. Note: All other contreatate works by civils contractor.	M3	3.67				-
5.2	LIGHTING SUPPORTS						
All street lighting supports to be supplied complete with poles, switchgear compartment & cover plates, base plates where applicable etc.							
a	Supply & install 76 mm top diameter hot dipped galvanised steel mast of mineral grey paint finish with overall length of 7.0 m for direct embedment in ground and complete with accessories including 2,5 mm ² internal wiring, BCEW, pole earthing and access cover as per specifications	No	17				-
b	Supply & install 76 mm top diameter hot dipped galavanised double steel spigot of mineral grey paint finish with overall height 300 mm as per specifications	No	17				-
5.3	LUMINAIRES						
All luminaires to be supplied complete with control gear.							
a	Supply, install and connect up SANS approved outdoor solar streetlight luminaire mounted on a 7m pole. The luminaire shall consist of a high- pressure die cast (black outside and white inside) Aluminium base, and trim ring with an impact resistant, UV stabilised, translucent polycarbonate diffuser and shall be designed to operate a 22W LED and have a minimum efficacy of 208 lm/w and IP65 rated with a 5-year warranty as per Standard Quality Specification for General Electrical Installations	No.	34				-
b	SANS approved outdoor back bending LED strip ,ade of silicone and FPC 24V luminaire. The luminaire shall consist of a high-pressure die cast (black outside and white inside) Aluminium base, and trim ring with an impact resistant, UV stabilised, translucent polycarbonate diffuser and shall be designed to operate a 50w LED and have a minimum efficacy of 105 lm/w and IP65 rated with a 5-year warranty as per Standard Quality Specification for General Electrical Installations	m	0				-
5.4	MISCELLANEOUS						
a	Any additional work which the tenderer deem necessary specific to this equipment to successfully complete this section.	Sum	1				-
1.5	SUNDRIES						
a	Removal and storage of existing light fittings including cabling, switchgear and masonry work.	Sum	1				-
Total Carried Forward To Summary							