

**UPGRADING OF GRAVEL ROADS TO INTERLOCKED PAVED ROADS AT
NDIYONA SETTLEMENT– KAVANGO EAST REGION -PHASE 2**

SUMMARY OF SCHEDULE OF QUANTITIES

PART 1: GENERAL	N\$: _____
PART 2: ROAD WORKS	N\$: _____
<u>SUB - TOTAL EXCLUDING CONTINGENCIES</u>	N\$: _____
ADD 10% CONTINGENCIES	N\$: _____
<u>SUB - TOTAL INCLUDING CONTINGENCIES</u>	N\$: _____
ADD 15% VAT	N\$: _____
<u>TOTAL CONTRACT AMOUNT(INCL. VAT)</u>	N\$: _____

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART 1: GENERAL						
SANS 1200 A: GENERAL						
8.3 SCHEDULED FIXED-CHARGES AND VALUE RELATED ITEMS						
1.1	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	Establishment of Facilities on the Site:				
1.2	8.3.2.2	Facilities for the Contractor	Sum	1		
1.3	8.3.3	Other Fixed-charge obligations	Sum	1		
1.4	8.3.4	Removal of Site Establishment on Completion	Sum	1		
		Project Health and Safety as specified in Section 5 of Tender Document	Sum	1		
1.5	8.3.5	Contract Sign Boards	Sum	1		
8.4 SCHEDULED TIME-RELATED CHARGES FOR THE DURATION OF THE PROJECT						
1.6	8.4.1	Contractual Requirements	Sum	1		
	8.4.2	Operation and Maintenance of Facilities on Site for the duration of Construction:				
1.7	8.4.2.2	Facilities for Contractor	Sum	1		
1.8	8.4.3	Supervision for Duration of Construction	Sum	1		
1.9		Company and Head Office Overhead Cost for the duration of Construction	Sum	1		
1.10	8.4.5	Other Time-Related Obligations	Sum	1		
1.11		Project Health and Safety as specified in Section 5 of Tender Document	Sum	1		
8.5 SUMS STATED PROVISIONALLY BY ENGINEER						
1.12		Additional Control Tests ordered by the Engineer	PS	1	25 000,00	25 000,00
1.13		Overheads, Charges and Profit on 1.10 above	%	25 000,00		
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
	8.8	TEMPORARY WORKS				
1.14	8.8.2	Dealing and Accommodation of Traffic	Sum	1		
	8.8.4	Existing services				
1.15	c)	Excavate by hand in soft material to expose existing services	m ³	10		
1.16	d)	Temporary protection of existing services	Sum	1		
1.17		Clearing of Site of all concrete and other foreign material including loading, transport and disposing material at a municipal dump site	m ³	10		
1.18		Keeping Excavations free of water	Sum	1		
PART 1: GENERAL : CARRIED FORWARD TO SUMMARY						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ROADS AT NDIYONA SETTLEMENT– KAVANGO EAST REGION -PHASE 2						
PART 2: ROAD WORKS						
SECTION 2.1: SITE CLEARANCE						
SANS 1200 C: SITE CLEARANCE						
8.2.1 CLEAR AND GRUB						
2.1.1		Clear site of grass and vegetation	m2	220		
8.2.2 REMOVE AND GRUB LARGE TREE STRUMPS OF GIRTH						
2.1.2		Over 1m and up to and including 2m	No.	1		
SECTION 2.2: EARTHWORKS						
SANS 1200 DM: EARTHWORKS						
8.3.3 TREATMENT OF ROADBED						
2.2.1	(a)(2)	Rip and re-compaction of in-situ material to a minimum of 95% of modified AASHTO maximum density	m³	116		
8.3.4 BORROW TO FILL						
2.2.2		Borrow to fill and compaction of material to minimum of 93% of modified AASHTO maximum density in layers not exceeding 300 mm with material obtained from site	m³	20		
8.3.7 CUT-TO-SPOIL						
2.2.3		Cut to spoil or stockpile from excavation	m³	10		
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		SECTION 2.3: SUBBASE				
		SANS 1200 ME: SUBBASE				
2.3.1		Construct 150 mm G5 gravel material sub-base course with material from commercial source compacted to 95% of modified AASHTO maximum density with a min CBR of 45% @ 95%				
		For Roads	m ³	111		
2.3.2		Construct 150mm C4 sub-base layer Cement stabilised layer compacted to 98% MOD AASHTO MAX Density	m ³	111		Rate Only
2.3.3		Construct 150 mm G6 gravel material sub-base course with material from commercial source compacted to 95% of modified AASHTO maximum density with a min CBR of 25% @ 95%				
		For Sidewalks	m ³	0		Rate Only
		SECTION 2.4: SEGMENTED PAVING				
		SANS 1200 MJ: SEGMENTED PAVING				
	8.2.2	CONSTRUCTION OF PAVING COMPLETE				
2.4.1		80mm thick Class 35 Mpa grey concrete interlocking pavers on 20mm (uncompacted thickness) on clean river sand for driveways and parking areas	m ²	766		
2.4.2		60mm thick Class 35 Mpa grey concrete interlocking pavers on 20mm (uncompacted thickness) on clean river sand for driveways and parking areas	m ²	0		Rate Only
2.4.3		Termite and weed poisoning on sand bedding	m ²	704		
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
		WATERPROOFING				
		One layer of 250 micron Consol Plastics Gunplas Black waterproof sheeting sealed at laps with Gunplas pressure sensitive Tape:				
2.4.4		Under paving	m ²	704		
SECTION 2.5: KERBING AND CHANNELING						
SANS 1200 MK: KERBING AND CHANNELING						
2.5.1		Construct [200 x 300]mm RC edge beam complete with joints at 2m intervals	m	13		
2.5.2		30 MPa Mountable kerbs with 15 MPa foundation and backing	m	210		
2.5.3		30 MPa Barrier kerbs with 15 MPa foundation and backing and SW Channel	m	44		
CARRIED FORWARD						

ITEM	REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
SECTION 2.6: ANCILLARY ROADWORKS						
8.4 SCHEDULED ITEMS FOR PERMANENT ROAD SIGNS						
8.4.1 Non-reflectorized Paint applied at Nominal						
Rate of 0,42 l/m2 for:						
2.6.1		100mm white lines	m	220		
2.6.2		100mm yellow lines	m	440		
2.6.3		White figures	m ²	12		
SECTION 2.7: STORMWATER DRAINAGE						
SANS 1200 LE: STORMWATER DRAINAGE						
2.7.1		Storm water Chutes complete as per drawing no. 2105900-02-CP-LP-TD-02	Sum	1		
2.7.2		Stormwater Concrete Drift Provisions complete as per drawing no. 2105900-02-CP-LP-TD-02	Sum	1		
PART 2: ROAD WORKS : CARRIED FORWARD TO SUMMARY						