

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (N\$)
		SECTION 1.1: PRELIMINARY AND GENERAL				
		SABS 1200 A: PRELIMINARY AND GENERAL				
	PSA 8.3	SCHEDULED FIXED-CHARGES AND VALUE RELATED ITEMS				
1.1.1	8.3.1	Contractual Requirements	Sum	1.0		
	8.3.2	Establishment of Facilities on the Site:				
1.1.2	8.3.2.2	Facilities for the Contractor	Sum	1.0		
1.1.3	8.3.3	Other Fixed-charge obligations	Sum	1.0		
1.1.4	8.3.4	Removal of Site Establishment on Completion	Sum	1.0		
1.1.5		Contract Sign Boards	No.	2.0		
	8.4	SCHEDULED TIME-RELATED CHARGES FOR THE DURATION OF THE PROJECT				
1.1.6	8.4.1	Contractual requirements	Sum	1.0		
	8.4.2	Operation and Maintenance of Facilities on Site for the duration of Construction				
1.1.7	8.4.2.2	Facilities for Contractor	Sum	1.0		
1.1.8	8.4.3	Supervision for duration of Construction	Sum	1.0		
1.1.9		Company and Head Office Overhead Cost for the duration of Construction	Sum	1.0		
1.1.10	8.4.5	Other Time-related Obligations	Sum	1.0		
	PSA 8.5	SUMS STATED PROVISIONALLY BY ENGINEER				
1.1.11		Additional tests ordered by the Engineer	PS	1.0	50,000.00	50,000.00
1.1.12		Overheads, Charges and profit on 1.1.11 above	%	50,000.00		
	8.8	TEMPORARY WORKS				
1.1.13	8.8.1	Main access road to works (construct and maintain)	Sum	1.0		
1.1.14	PSA 8.8.2	Dealing and Accommodation of Traffic	Sum	1.0		
	PSA 8.8.4	Existing services				
1.1.15	c)	Excavation by hand in soft material to expose	m ³	100.0		
1.1.16	d)	Temporary protection of services	Sum	1.0		
	PSA 8.8.5	Cost of Survey in Terms of the Land Survey Act (See sections PS13)				
1.1.17		Trigonometrical Survey and Plot Boundary Pegs - Protect and Re-establish	Sum	1.0		
1.1.18		Relocation of existing services	Sum	1.0		
		SABS 1200 AB: ENGINEERS OFFICE				
1.1.19	PSAB 8.11	Provisional Sum for the supply of material, equipment and services for the Engineer's office	Sum	1.0	65,000.00	65,000.00
1.1.20		Percentage charges and profit on item above	%	65,000.00		
Total Carried Forward To Summary						

ORANJEMUND EXT. 4B
DEVELOPMENT OF SERVICES INFRASTRUCTURE

PART 1 : PRELIMINARY AND GENERAL

SUMMARY OF SECTIONS		AMOUNT (N\$)
SECTION	DESCRIPTION	
1	SECTION 1.1: PRELIMINARY AND GENERAL	<hr/>
Total Carried Forward To Summary Of Schedules		<hr/> <hr/>

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
2.1.1	8.2.1	PART 2: ROADS & STORMWATER SECTION 2.1: SITE CLEARANCE SABS 1200 C: SITE CLEARANCE CLEAR AND GRUB Clear and grub road reserve Road Reserve, erven and pipe routes	ha	6.06		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
		SECTION 2.2: BULK EARTHWORKS				
		SABS 1200 DM: EARTHWORKS (ROADS, SUBGRADE)				
	8.3.3	TREATMENT OF ROADBED				
2.2.1		Road-bed preparation and compaction of material to minimum of 90% of modified AASHTO maximum density	m ³	2,060.0		
	PSDM 8.3.4	CUT TO FILL, BORROW TO FILL				
2.2.2		Cut to fill and compaction of material to minimum of 93% of modified AASHTO maximum density in layers not exceeding 300 mm	m ³			Rate Only
2.2.3		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 Borrow pits identified by the Contractor	m ³	2,060.0		
	8.3.5 & PSDM 8.3.5	SELECTED LAYER				
2.2.4	8.3.5	Construct 150 mm G7 Lower Selected Subgrade Layer with material obtained from borrow pits identified by the Contractor and compacted to 93% of modified AASHTO maximum density.	m ³	2,060.0		
2.2.5	8.3.5	Construct 150 mm G7 Upper Selected Subgrade Layer with material obtained from borrow pits identified by the Contractor and compacted to 93% of modified AASHTO maximum density.	m ³	1,850.0		
	8.3.6	BREAKING DOWN MATERIAL				
2.2.6		Extra-over for items 2.2.2 and 2.2.7 for excavating and	m ³	10.0		
	8.3.7	CUT TO SPOIL				
2.2.7	(a)	Cut to spoil or stockpile from soft excavation	m ³			Rate Only
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
2.3.1	PSME 8.3.3 & 8.3.9	<p>SECTION 2.3: SUBBASE</p> <p>SABS 1200 ME: SUBBASE</p> <p>CONSTRUCT THE SUBBASE COURSE, SHOULDERS, GRAVEL WEARING COURSE WITH MATERIAL FROM BORROW PITS</p> <p>Construct 150 mm G5 subbase course from borrow pits identified by the Contractor and compacted to 95% of modified AASHTO Max. Density with a min CBR of 45% @ 95%</p> <p>For Roads</p>	m³	1,640.0		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
2.4.1	PSMF 8.3.3	<p>SECTION 2.4: BASE</p> <p>SABS 1200 MF: BASE</p> <p>CONSTRUCT BASE WITH MATERIAL FROM BORROW</p> <p>Construct 150 mm G4 natural gravel base course with material from borrow pits identified by the Contractor, compacted to 98% of modified AASHTO maximum Density with a min CBR of 80% @ 98%</p>	m ³			Rate Only
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
SECTION 2.5: SURFACING						
2.5.1	8.4.1	SABS 1200 MG: BITUMEN SURFACE TREATMENT PRIME COAT Colprime E	ℓ			Rate Only
2.5.2	8.4.4	BITUMINOUS SURFACE TREATMENT WITH AGGREGATE AND SLURRY SEAL Bitumen surface treatment using 19 mm aggregate and double slurry (19 mm Cape Seal)	m ²			Rate Only
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
2.6.1	8.2.1	<p>SECTION 2.6: SEGMENTED PAVING</p> <p>SABS 1200 MJ: SEGMENTED PAVING</p> <p>EDGE RESTRAINTS</p> <p>300 mm x 230 mm x 25 MPa Concrete Edge Beams cast insitu</p>	m	60.0		
2.6.2	PSMJ 8.2.6	<p>CONSTRUCTION OF PAVING COMPLETE</p> <p>80 mm thick 35 MPa concrete interlocking grey paving on 20 mm (un-compacted thickness) clean river sand packed in a herring bone structure at 45 degrees to the kerb and edge restraint edge.</p>	m ²	10,920.0		
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
		SECTION 2.7: KERBING AND CHANNELING				
		SABS 1200 MK: KERBING AND CHANNELLING				
	PSMK 8.2.1	CONCRETE KERBING AND CHANNELLING COMBINED				
2.7.1		30 MPa Barrier kerbs with 15 MPa foundation and backing.	m			Rate Only
2.7.2		30 MPa Barrier kerbs with 15 MPa foundation and backing combined with 30 MPa in-situ cast concrete SW channel	m			Rate Only
2.7.3		30 MPa Mountable kerbs with 15 MPa foundation and backing.	m	2,300.0		
2.7.4		30 MPa Mountable kerbs with 15 MPa foundation and backing combined with 30 MPa in-situ cast concrete SW channel	m			Rate Only
Total Carried Forward To Summary						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT (N\$)
		SECTION 2.8: ANCILLARY ROADWORKS				
		SABS 1200 MM: ANCILLARY ROADWORKS				
	PSMM 8.3.8	SCHEDULED ITEMS FOR PERMANENT ROAD SIGNS				
		Supply and erect standard chromodeck sheet steel (1.4 mm thick) road sign with retro - reflective material fixed to a 50 mm nominal steel tubing based with a 15 MPa concrete footing for:				
2.8.1		Stop Signs - R1 - 900 mm	No.	10.0		
2.8.2		Double street name board	No.	10.0		
	8.4	SCHEDULED ITEMS FOR ROAD MARKINGS				
	PSMM 8.4.1 & 8.4.4	Non-reflectorized Paint applied at Nominal Rate of 0,42 l/m2 for:				
2.8.3		100mm white lines	m	1,150.0		
2.8.4		100mm yellow lines	m	2,300.0		
2.8.5		300mm white lines	m	110.0		
2.8.6		White figures	m ²	165.0		
2.8.7	PSMM 8.4.5	White and black painting of barrier kerbs at Intersections	m	110.0		
Total Carried Forward To Summary						

SUMMARY OF SECTIONS			
SECTION	DESCRIPTION		AMOUNT (N\$)
1	SECTION 2.1: SITE CLEARANCE		_____
2	SECTION 2.2: BULK EARTHWORKS		_____
3	SECTION 2.3: SUBBASE		_____
4	SECTION 2.4: BASE		_____
5	SECTION 2.5: SURFACING		_____
6	SECTION 2.6: SEGMENTED PAVING		_____
7	SECTION 2.7: KERBING AND CHANNELING		_____
8	SECTION 2.8: ANCILLARY ROADWORKS		_____
Total Carried Forward To Summary Of Schedules			<input type="text"/>

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
		PART 3: ELECTRICAL RETICULATION						
		SECTION 3.1: ELECTRICAL RETICULATION						
		SABS 1200 A: GENERAL						
	8.5	PRELIMINARY AND GENERAL						
3.1.1		Transport	Sum	1				
3.1.2		Site Establishment	Sum	1				
3.1.3		Setting Out	Sum	1				
3.1.4		Progress Meetings	Sum	1				
3.1.5		Attendance for Measurement	Sum	1				
3.1.6		Site Supervision	Sum	1				
3.1.7		Insurance, Warranties	Sum	1				
3.1.8		Telephone, stationery etc.	Sum	1				
3.1.9		Tests and inspection prior to completion	Sum	1				
3.1.10		As built drawings	Sum	1				
3.1.11		Liaison with Local Authority and Supply Authority	Sum	1				
Total Carried Forward To Summary								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
SECTION 3.2: CIVIL WORK - TELECOM								
3.2.1		Trench in pickable material of uPVC 110mm dia Class 6 Telecom Sleeves	m	1,120				
3.2.2		Supply and installation of uPVC 110mm dia Class 6 sleeves. (Telecom Road crossing Sleeves) complete with PVC draw wire	m	1,120				
Total Carried Forward To Summary								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
		SECTION 3.3: CIVIL WORK - ELECTRICAL						
		Trench in pickable material for underground cables including warning tape, backfill and compaction.						
3.3.1		LT cables - 600mm deep	m	2,500				
3.3.2		HT cables - 1000mm deep	m	460				
3.3.3		Construction of minisub plinth as detailed on drawing and Supply Authority requirements	Sum	1				
3.3.4		Excavation, backfilling and compaction for Streetlight Poles	No	22				
3.3.5		Installation of kiosks including excavation, backfill and compaction complete	No	16				
3.3.6		Supply and installation of 110mm dia Class 6 sleeves. (Road crossing Sleeves) complete with PVC draw cable	m	3,360				
3.3.7		Supply, delivery and installation of the 110mm dia Road Crossing Markers on both end of all Road Crossing Sleeves	No	28				
3.3.8		Supply, delivery and installation of Cable Route Markers at the beginning of HT cable to the Miniature Substations	No	13				
Total Carried Forward To Summary								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
SECTION 3.4: MV RETICULATIN								
Supply, delivery and installation of Miniature Substation complete with Lucy RMU, Meter Compartment, MV and LV compartment as specified								
3.4.1		315kVA	No	1				Rate Only
3.4.2		500kVA	No	1				Rate Only
3.4.3		630kVA	No	1				
3.4.4		800kVA	No	1				Rate Only
Supply, delivery and installation of XPLE 33kV cable								
3.4.5		120mm ² x 3C	m	1				Rate Only
3.4.6		95mm ² x 3C	m	1				Rate Only
3.4.7		70mm ² x 3C	m	1				Rate Only
3.4.8		50mm ² x 3C	m	460				
Supply, delivery and installation of terminations for XPLE 33kV cable								
3.4.9		50mm ² x 3C	No	2				
Supply, deliver and complete installation of joint for XPLE 33kV cable								
3.4.10		50mm ² x 3C	No	1				
Total Carried Forward To Summary								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
SECTION 3.5: LV RETICULATIN								
Supply and delivery and installation of 1000V PVC SWA PVC cables (copper).								
3.5.1		120mm ² x 4C	m	1				Rate Only
3.5.2		95mm ² x 4C	m	1				Rate Only
3.5.3		70mm ² x 4C	m	500				
3.5.4		50mm ² x 4C	m	1				Rate Only
3.5.5		35mm ² x 4C	m	1,080				
3.5.6		25mm ² x 4C	m	1				Rate Only
3.5.7		16mm ² x 4C	m	1				Rate Only
3.5.8		16mm ² x 2C (service connections)	m	2,880				
3.5.9		4mm ² x 4C (Streetlight)	m	3,640				
Supply and delivery and installation of insulated copper earth wire.								
3.5.10		95mm ²	m	1				Rate Only
3.5.11		70mm ²	m	1				Rate Only
3.5.12		50mm ²	m	500				
3.5.13		35mm ²	m	1				Rate Only
3.5.14		25mm ²	m	1,080				
3.5.15		16mm ²	m	1				Rate Only
3.5.16		10mm ²	m	2,880				
3.5.17		6mm ²	m	1				Rate Only
3.5.18		4mm ²	m	3,640.00				
Supply and delivery and installation of termination units including mechanical clamps, lugs, corrosion, proof bolts, nuts washers, end caps etc. to terminate the following cables:-								
3.5.19		120mm ² x 4C	No	1				Rate Only
3.5.20		95mm ² x 4C	No	1				Rate Only
3.5.21		70mm ² x 4C	No	8				
3.5.22		50mm ² x 4C	No	1				Rate Only
3.5.23		35mm ² x 4C	No	24				
3.5.24		25mm ² x 4C	No	1				Rate Only
3.5.25		16mm ² x 4C	No	1				Rate Only
3.5.26		16mm ² x 2C	No	89				
3.5.27		10mm ² x 4C	No	1				Rate Only
3.5.28		10mm ² x 2C	No	1				Rate Only
3.5.29		4mm ² x 4C	No	44				
Total Carried Forward								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
Total Brought Forward								
		Supply and delivery and installation of termination units including mechanical clamps, lugs, corrosion, proof bolts, nuts washers etc. to terminate the following ICEW						
3.5.30		70mm ² ICEW	No	1				Rate Only
3.5.31		50mm ² ICEW	No	8				
3.5.32		35mm ² ICEW	No	1				Rate Only
3.5.33		25mm ² ICEW	No	24				
3.5.34		16mm ² ICEW	No	1				Rate Only
3.5.35		10mm ² ICEW	No	89				
3.5.36		6mm ² ICEW	No	1				Rate Only
3.5.37		4mm ² ICEW	No	44				
3.5.38		Supply, delivery and installation of service connection end caps	No	89				
		Supply, deliver and installation of distribution kiosks complete with switchgear as detailed including consumer circuit breakers (orange toggle)						
3.5.39		Polyethelene 12-way kiosk	No	16				
		Supply, deliver and installation of fibre glass streetlights complete with 5A circuit breaker and wiring (excluding luminaire)						
3.5.40		8m mounting height	No	22				
		Supply, deliver and installation of streetlight luminaires (HPS) complete including lamp and control gear to be robustly constructed, weatherproof, hailproof, corrosion proof and shall vandal resitant as specified						
3.5.41		100W Bottom Entry	No	22				
Total Carried Forward To Summary								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
		SECTION 3.6: EARTHING						
3.6.1		Supply, deliver and installation of kiosk earth complete with 3m earth rod and 70mm ² ICEW to earth bar as per supply authority's requirements and as specified Kiosks	No	16				
3.6.2		Supply, deliver and installation of Miniature Substation earth complete with earth mat and 70mm ² ICEW to earth bar as per supply authority's requirements and as Miniature Substation	No	2				
Total Carried Forward To Summary								

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	TOTAL RATE	TOTAL AMOUNT (N\$)
3.7.1		SECTION 3.7: MAINTENANCE Cost required for the 12 month maintenance period	Sum	1				
Total Carried Forward To Summary								

SECTION	SUMMARY OF SECTIONS DESCRIPTION	AMOUNT (N\$)
1	SECTION 3.1: PRELIMINARY AND GENERAL	_____
2	SECTION 3.2: CIVIL WORK - TELECOM	_____
3	SECTION 3.3: CIVIL WORK - ELECTRICAL	_____
4	SECTION 3.4: MV RETICULATION	_____
5	SECTION 3.5: LV RETICULATION	_____
6	SECTION 3.6: EARTHING	_____
7	SECTION 3.7: MAINTENANCE	_____
	SUB-TOTAL	_____
	ADD 10% CONTINGENCIES	_____
	SUB-TOTAL	_____
	ADD 15% VAT	_____
	Total Carried Forward To Summary Of Schedules	_____

ORANJEMUND EXT. 4B

DEVELOPMENT OF SERVICES INFRASTRUCTURE

SUMMARY - TOTAL

SUMMARY OF SCHEDULES		
SCHEDULE	DESCRIPTION	TOTAL AMOUNT (N\$)
1	PART 1 : GENERAL	_____
2	PART 2 : ROADS & STORMWATER	_____
3	PART 3 : ELECTRICAL RETICULATION	_____
	SUB-TOTAL	_____
4	ADD CONTINGENCIES (10%)	_____
	SUB-TOTAL	_____
5	ADD 15% VAT	_____
	TOTAL	=====