

SECTION 1: PRELIMINARY & GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT
1	SABS 1200 A	SECTION 1 : PRELIMINARY AND GENERAL				
1.1	8.3	FIXED-CHARGE ITEMS				
1.1.1	8.3.1	Contractual Requirements	Sum	1.0		-
	8.3.2	Establish Facilities on the Site:				
		a) Facilities for Engineer (SABS 1200 AB)				
1.1.2	PSAB 3.2	Office and equipment	Sum	1.0		-
1.1.3	PSA 8.4.2.1	Name boards	Sum	1		-
1.1.4		Two car ports for the sole use of the Engineer	No.	2.0		-
1.1.5	PSAB 5.5	Survey Assistance & Equipment	Sum	1		-
1.1.6		Conference Room	Sum	1		-
1.1.7		Ablutions	Sum	1.0		-
		b) Facilities for Contractor				
1.1.8		Offices and storage sheds	Sum	1.0		-
1.1.9		Workshops	Sum	1.0		-
1.1.10		Living accommodation	Sum	1.0		-
1.1.11		Ablution and latrine facilities	Sum	1.0		-
1.1.12		Tools and equipment	Sum	1.0		-
1.1.13		Water supplies, electric power and telecom	Sum	1.0		-
1.1.14		Dealing with water	Sum	1.0		-
1.1.15		Access	Sum	1.0		-
1.1.16		Plant	Sum	1.0		-
1.1.17		Security of Works	Sum	1.0		-
1.1.18	8.3.3	Other fixed-charge obligations	Sum	1.0		-
1.1.19	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	1.0		-
1.2	PSA 9.4	OCCUPATIONAL HEALTH AND SAFETY				
1.2.1		Preparation of Health and Safety Plan	Sum	1.0		-
1.2.2		Health and Safety Training	Sum	1.0		-
1.2.3		Personal Protective Clothing and Equipment	Sum	1.0		-
1.2.4		Fences, Signs and Barricades	Sum	1.0		-
1.2.5		Implement and maintain Health & Safety Plan	Sum	1.0		-
1.3	PSA 8.5.3	COMMUNITY LIASON OFFICER				
1.3.1		3 x Salary (based on R8000 per month)	Prov Sum	1	240000	240 000.00
1.3.2		3 x cell phone allowance (based on R500 per month)	Prov Sum	1	15 000.00	15 000.00
1.3.3		Overheads, charges and profit on items 1.3.1 & 1.3.2	%			-
1.4		ENVIRONMENTAL				
1.4.1		Environmental Inspector	Sum	1.0		-
1.4.2		Implement and maintain EMP	Sum	1.0		-
1.4.3		Overheads, charges and profit on item 1.4.1; 1.4.2	%			-
1.5	8.4	TIME-RELATED ITEMS				
1.5.1	8.4.1	Contractual Requirements	Sum	1.0		-
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Engineer for duration of construction (SABS 1200 AB)				
TOTAL CARRIED FORWARD						255 000.00

SECTION 1: PRELIMINARY & GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITIES	RATE	TENDERED AMOUNT
BROUGHT FORWARD						255 000.00
1.5.2	PSAB 3.2	Office and equipment	Sum	1.0		
1.5.3		Conference Room	Sum	1.0		
1.5.4		Two car ports for the sole use of the Engineer	Sum	1.0		
1.5.5	PSA 8.4.2.1	Cellular Telephone (R500/month)	month	10.0	500.00	5 000.00
1.5.6		Provision of a 3g modem with 2 gigabytes of data per month for the duration of the project.	Sum	1.0		
1.5.7	PSAB 5.5	Survey Equipment	Sum	1.0		
1.5.8		Ablutions	Sum	1.0		
	8.4.2.2	b) Facilities for Contractor for duration of construction, except where otherwise stated				
1.5.9		Offices and storage sheds	Sum	1.0		
1.5.10		Workshops	Sum	1.0		
1.5.11		Living accommodation	Sum	1.0		
1.5.12		Ablution and latrine facilities	Sum	1.0		
1.5.13		Tools and equipment	Sum	1.0		
1.5.14		Water supplies, electric power and telecom	Sum	1.0		
1.5.15		Dealing with water	Sum	1.0		
1.5.16		Access	Sum	1.0		
1.5.17		Plant	Sum	1.0		
1.5.18		Security of Works	Sum	1.0		
1.5.19	8.4.3	Supervision	Sum	1.0		
1.5.20	8.4.4	Company and head office overhead costs	Sum	1.0		
1.5.21	8.4.5	Other time-related obligations	Sum	1.0		
1.6		QUALITY CONTROL TESTING				
		Fixed charge item	Sum	1.0		
1.6.1	PSA 8.5.4	Use of an independent commercial laboratory for use by the Engineer	Sum	1.0		
1.6.2		Establish compaction control equipment on Site	Sum	1.0		
1.7		TRANSPORTATION ON SITE		1.0		
1.7.1		Provision of mini bus taxi. This is to travel the length of the works during site meetings for the duration of the project.	Sum	1.0		
1.8		AS-BUILT DOCUMENTATION				
1.8.1		Contractor to produce as-built documentation	Sum	1.0		
1.10		WAYLEAVES				
1.10.1		Contractor to apply for wayleaves and obtain all necessary approvals	Sum	1.0		
11.11		ACCOMMODATION OF TRAFFIC				
		Accommodating traffic and maintaining temporary deviations				
1.11.1		Contractor to price all items required for traffic accommodation for the length of the project route	Sum	1.0		
1.12		SERVICES DETECTION				
1.12.1		Contractor to allow for detection of all services on the project route	Sum	1.0		
1.13		RELOCATION OF SERVICES				
1.13.1		Relocation of services encountered on the project route	Sum	1		
TOTAL CARRIED FORWARD						260 000.00

SECTION 2 : PLANNING & DESIGN

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT
2		SECTION 2: PLANNING AND DESIGN				
2.1		Inception	%	5.0		
2.2		Concept and Viability	%	25		
2.3		Design Development	%	25.0		
TOTAL CARRIED FORWARD						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT
3		SECTION 3: CIVIL WORKS				
3.1		CLEARANCE				
3.1.1		Clearance of path of the civil / fibre infrastructure	m	23 000.0		
3.2		SCHEDULED ITEMS				
3.2.1		<u>Excavate, Fill & Compact</u>				
3.2.1.1		Excavate all types of soil excl rock, fill and ram as per specification (Urban)	m	23 000,00		
3.2.1.2		Excavate hard rock, fill and ram as per specification (Urban)	m ³	4 200,00		
3.2.1.3		Fill trench with trenchcrete to specified depth. Concrete strength - 15MPa (Urban)	m ³	2 500,00		
3.2.1.4		Import backfill material if excavated material is not suitable (Urban)	m ³	4 239,00		
3.2.1.5		Import bedding and padding total 150mm depth if sifted excavated materials is not suitable (Urban)	m ³	1 380,00		
3.2.1.6		Over Excavate in all soil types (engineering difficulties or ROW instructions)	m ³	5 219,00		
3.2.1.7		Excavation of Trial Pits as per instruction	each	920.0		
3.2.2		<u>Breaking & Reinstatement of Surfaces</u>				
3.2.2.1		Breaking of Asphalt up to 100mm deep	m ²	2 363,00		
3.2.2.2		Breaking of Concrete up to 100mm deep	m ²	1 896,00		
3.2.2.3		Removal of interlock paving or concrete tiles	m ²	10 980,00		
3.2.2.4		Removal of plants and grass or landscaping	m ²	624,00		
3.2.2.5		Reinstatement of Asphalt surfaces up to 100mm deep - sidewalks and driveways	m ²	2 363,00		
3.2.2.6		Reinstatement of concrete slabs up to 100mm deep	m ²	1 896,00		
3.2.2.7		Reinstatement of interlock paving or concrete tiles	m ²	10 980,00		
3.2.2.8		Reinstatement of grass and plants	m ²	624,00		
3.2.3		<u>Trenchless Services (Drilling & Boring)</u>				
3.2.3.1		Thrust Boring/Horizontal Directional Drilling - for road, rail crossing - incl. supply and installation of TWO 110mm HDPE pipes (in Normal Soil conditions)	m	2 349,00		
3.2.3.2		Ground Displacement Impact Miling - for drilling underneath driveways and entrances to busy premises - incl supply and installation of TWO 110mm HDPE or PVC sleeve	m	1 536,00		
3.2.4		<u>Manhole & Handhole Construction and Installation</u>				
3.2.4.1		Construction of manhole -rural&urban - Manhole 1.0mx 1.0m x 1.2m (LxBxD in meters) inner dimensions - 20Mpa face bricks - Including accessories as specified	each	31,00		
3.2.4.2		Installation of pre-manufactured Manhole -rural&urban - (Concrete or HDPE) - round manhole(1.2m diameter and 1.2m deep) or square manhole (1.0m x 1.0m x 1.0m)	each	64,00		
3.2.5		3 year Maintenance and Support for the fibre monitoring solution and manhole security system	Sum	1.0		
3.2.6		<u>Protection Pipe and Duct Installation</u>				
3.2.6.1		Place ONE 110mm HDPE or GI pipe in open trench on top of 50mm bedding as per specification	m	23 000,00		
3.2.6.2		Hauling ONE 4way or 7way micro-duct inside 110mm HDPE or Steel Pipe	m	28 085,00		
3.2.6.3		Encasement of protection concrete pipe 50mm thick x 15Mpa	m	1 200,00		
TOTAL CARRIED TO SUMMARY						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT
4		SECTION 4: FIBRE WORKS				
4.1		FIBRE OPTIC CABLE INSTALLATION				
4.1.1		Installing fibre cable into micro-duct by means of blowing method	m	28 000,00		
4.2		FIBRE OPTIC SPLICING AND ODF & PATCHPANEL WORKS				
4.2.1		Splice Fibre Optic Cable (24-72 fibres)	per fibre	1 368,00		
4.2.2		Splice pigtail in fibre patch panel	per fibre	864,00		
4.2.3		ODF Rack / Cabinet installation	pc	6,00		
4.2.4		Patch Panel Installation incl. fitting of mid-couplers & marking	pc	12,00		
4.3		FIBRE OPTIC TESTING				
4.3.1		Pre-Installation Test (OTDR at 1550nm) - on fibre drum	fiber	504,00		
4.3.2		Post-Installation Test (OTDR at 1550nm)	fiber	504,00		
4.3.3		End to End OTDR Link Test - Bi Directional (patch panel to patch panel) as per specification	per fibre per link	864,00		
4.3.4		End-to-end Power meter Link Test - Bi Directional (patch panel to patch panel) as per specification	per fibre per link	864,00		
4.4		OPTIC FIBRE CABLE				
4.4.1		72 fiber (G.655D) Microduct Fibre for Duct Installation	m	29 000		
4.5		OPTIC FIBRE SPLICE ENCLOSURES AND ACCESSORIES				
4.5.1		Round Joint with Gel Seal Kit Up to 96fibre	pc	7,0		
4.5.2		Mounting bars for wall/manhole	pc	7,0		
4.5.3		splice protecting sleeve fiber, L=90 mm, (order multiple 100 pieces)	pc	504,0		
4.5.4		Installation Kit for 10 Closures	pc	1,0		
4.6		OPTICAL DISTRIBUTION FRAMES AND ACCESSORIES				
4.6.1		patch panel for installation at site, up to 70 fiber connections (600 ports)	pc	12,0		
4.6.2		Horizontal Cable Guide	pc	12,0		
4.6.3		Pigtail 0,9 mm LC, P5 2 meter	pc	864,0		
4.6.4		Patch cord Simplex 2mm LC-LC, P5 3meter	pc	864,0		
4.6.5		splice protecting sleeve fiber, L=90 mm, (order multiple 100 pieces)	pc	864,0		
4.6.6		Adapter LC, Duplex	pc	432,0		
4.7		MICRONET DUCT AND ACCESSORIES				
4.7.1		7-way heavy duty Duct Assembly for 12000 Data Transmission (12/10mm)	pc	25 898		
4.7.2		Micro Duct Straight Connectors 12/10mm (100pcs per pack)	pc	665,0		
4.7.3		Micro Duct Endstop Connectors 12/10mm (100pcs per pack)	pc	333,0		
4.7.4		Micro Duct Gas Block Connectors 12/10mm	pc	12,0		
4.8		MANHOLES & ACCESSORIES				
4.8.1		manhole precast circular - 1100mm x 1,2m deep complete with 1 sealable cover	PC	64,0		
4.8.2		polymer heavy duty circular daynight opening (HCO) locking mechanism for 1100mm x 1,2m	pc	31,0		
4.9		PROTECTION PIPES & ACCESSORIES				
4.9.1		110mm flexiduct (6m lengths)	pc	3 833		
4.10		MISCELLANEOUS MATERIALS & TEST				
4.10.1		Trench Marker Tape - 200mm x 200micron - black on blue	pc	92,0		
4.10.2		Sealing foam for manhole entries	pc	32,0		
4.10.3		ODF Rack 19U x 600mm x 600mm	pc	6,0		

SECTION	SUMMARY OF SECTIONS	AMOUNT
1	PRELIMINARY AND GENERAL	260 000.00
2	PLANNING AND DESIGN	-
3	CIVIL WORKS	-
4	FIBRE WORKS	-
SUB - TOTAL 1		-
	10% CONTINGENCY	-
SUB - TOTAL 2		-
	15% VAT	-
SUB - TOTAL 3		-
GRAND TOTAL		-