

SCHEDULE OF QUANTITIES**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK**SANS 1200 A - GENERAL****SECTION 1200 A**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200	1	<u>GENERAL</u>				
8.3	1,1	Scheduled fixed-charge and value-related items:				
PSA 8.3.1	1.1.1	Contractual Requirements	sum	1		
PSA 8.3.2	1.1.2	Establishment of Facilities on Site				
8.3.2.1	1.1.2.1	a) Telephone	sum	1		
		b) Nameboards (2)	sum	1		
		c) Survey assistants and equipment (profiling of chainages)	sum	1		
8.3.2.2	1.1.2.2	Facilities for Contractor				
		a) Offices and storage sheds	sum	1		
		b) laboratory (testing of existing layer and stabilization design of C3)	sum	1		
		c) Tools and equipment	sum	1		
		d) Ablution and latrine facilities	sum	1		
		e) temporary road sign and flags	sum	1		
8.3.3	1.1.3	Other fixed charge obligations: Contractor to submit details:				
		a)	sum	1		Rate Only
1200 A	Carried forward					

SANS 1200 A - GENERAL

SECTION 1200 A

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
8.3.4	1.1.4	Removal of Site Establishment and camp on completion	sum	1		
8,4	1,2	Scheduled time-related items:				
PSA 8.4.1	1.2.1	Contractual requirements	Months	4		
8.4.2	1.2.2	Operation and maintanance of facilities on site, for duration of construction, except where otherwise stated				
1200 A	Carried forward					

SANS 1200 A - GENERAL

SECTION 1200 A

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
	1.4.5	Community Liaison Officer remuneration	month	4	4500	R 18 000,00
	1.4.6	Charge required by Contractor on subitem 1.4.5 above	%	4500	%	
	1.4.7	PLC team remuneration	PC Sum	1	5600	
	1.4.8	Charge required by Contractor on subitem 1.4.7 above	%	5600	%	
PSA 8.7	1,5	Dayworks (Provisional)	hr	1		Rate only
PSA 8.8	1,6	Temporary Works				
PSA 8.8.2	1.6.1	Accommodation of traffic				
	1.6.1.1	Provide and maintain access roads and adjacent streets including reinstatement of roads on completion	km	1,5		
1200 A	Carried forward					

SANS 1200 A - GENERAL

SECTION 1200 A

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
PSA 8.8.4	1.6.2	Location and protection of existing services:				
	1.6.2.1	Provision of detecting devices for:				
	1.6.2.1.1	Electrical poles and other cables	sum	1		
	1.6.2.2	Hand excavation necessary for locating and exposing existing services in all materials:				
	1.6.2.2.1	In roadways	m ³	5		
	1.6.2.2.2	In all other areas	m ³	50		
PSA 8.9	1,7	Compensation in terms of subsubclause 57(4)(b)(ii) for delays due to the circumstances described in Subclauses 57(1) and (2) of the General Conditions of Contract, as amended	days	5		
PSA 8.10	1,8	Compliance with OHS Act and Regulations (including the Construction Regulations, 2003)	sum	1		
	1,9	Training of unskilled and semi-skilled workers by accredited institutions				
	1.9.1	Accredited Training	PC Sum	1	15000	
	1.9.2	Charge required by Contractor on subitem 1.9.1 above	%	15000	%	
	TOTAL SECTION 1200 A CARRIED TO SUMMARY					

SANS 1200 C - SITE CLEARANCE

SECTION 1200 C

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200	2	<u>SITE CLEARANCE</u>				
PSC 8.2.1	2,1	Clear and grub:				
	2.1.1	Road 1 and road 1A Areas	m ²	202		
	2.1.2	Existing stormwater kerb inlets area	m ²	350		
8.2.2	2,2	Remove and grub small trees and tree stumps of girth:				
	2.2.1	Over 1,0 m and up to and including 2,0m	No.	1		Rate only
8.2.5	2,3	Take down existing fences	km	1		Rate only
8.2.9	2,4	Transport materials and debris to unspecified Site and dump up to 5km	m ³ .km	2100		
PSC 8.2.7	2,5	Dismantle and remove:				
	2.5.1	Remove existing concrete channel				
	2.5.1.1	up to 150mm thick	m	180		
	2,6	Movement of services	sum	1		
	2A	STORMWATER FROM EXISTING KERB INLETS				
PSC 8.2.4	2A.1	Clean up the existing blocked inlets	sum	1		
PSC 8.2.7	2A.2	Remove the existing concrete pipes	sum	1		
	TOTAL SECTION 1200 C CARRIED TO SUMMARY					

SANS 1200 DB - EARTHWORKS (PIPE TRENCHES)

SECTION 1200 DB

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200	3	<u>EARTHWORKS (PIPE TRENCHES)</u>				
	3,1	<u>TRENCHES FOR STORMWATER PIPES</u>				
PSDB 8.3.2	3.1.1	Excavate in all materials for trenches, backfill, compact and dispose of surplus material :				
	3.1.1.2	750mm dia pipes for depths over 1.0m up to 2.0m				
	3.1.1.2.1	Road 1	m ³	158		
	3.1.1.2.2	Road 1A	m ³	50		
	3.1.1.2.3	stormwater kerb inlets	m ³	10		
PSDB 8.3.2	3.1.2	Extra over item 142.11 above for:				
	3.1.2.1	Intermediate excavation				
	3.1.2.1.1	Road 1 for all pipes	m ³	158		
	3.1.2.1.2	Road 1A for all pipes	m ³	45		
	3.1.2.2	Hard Excavations				
	3.1.2.2.1	Road 1 for all pipes	m ³	158		
	3.1.2.2.2	Road 1A for all pipes	m ³	45		
	3.1.2.2.3	stormwater kerb inlets	m ³	105		
1200 DB	Carried forward					

SANS 1200 DB - EARTHWORKS (PIPE TRENCHES)

SECTION 1200 DB

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
PSDB 8.3.3	3.1.2.3	Boulder Excavations				
	3.1.2.3.1	Road 1 for all pipes	m ³	50		
	3.1.2.3.2	Road 1 A for all pipes	m ³	20		
	3.1.2.3.3	stormwater kerb inlets	m ³	45		
	3.1.4	Excavation ancillaries:				
	3.1.4.1	Make up deficiency in backfill material:				
	3.1.4.1.1	By importation from stockpile	m ³	158		
	TOTAL SECTION 1200 DB CARRIED TO SUMMARY					

SANS 1200 LB - BEDDING (PIPES)

SECTION 1200 LB

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200	5	<u>BEDDING (PIPES)</u>				
	5,1	<u>BEDDING FOR STORMWATER</u>				
8.2.1	5.1.1	Provision of bedding from trench excavations backfill with material excavated from trenches:				
	5.1.1.2	750mm dia pipes				
	5.1.1.2.1	Road 1	m ³	250		
	5.1.1.2.2	Road 1 A	m ³	50		
	5.1.1.2.3	stormwater kerb inlets	m ³	10		
PSLB 8.2.2	5.1.2	Supply only of bedding by importation From other necessary excavations Bedding cradle of selected granular material placed and compacted to 90% Mod. AASHTO density:				
	5.1.2.2	750mm dia pipes				
	5.1.2.2.1	Road 1	m ³	250		
	5.1.2.2.2	Road 1 A	m ³	50		
	5.1.2.2.3	Existing stormwater kerb inlets	m ³	25		
1200 LB	Carried forward					

SANS 1200 LB - BEDDING (PIPES)

SECTION 1200 LB

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
	6.1.3	Supply only of bedding by importation From other necessary excavations Selected fill blanket to be compacted to 90% Mod. AASHTO density.				
	6.1.3.2	750mm dia pipes				
	6.1.3.2.1	Road 1	m ³	350		
	6.1.3.2.2	Road 1 A	m ³	155		
	6.1.3.2.3	stormwater kerb inlets	m ³	5		
	TOTAL SECTION 1200 LB CARRIED TO SUMMARY					

SANS 1200 LE - STORMWATER DRAINAGE

SECTION 1200 LE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200 8.2.1	7 7,1	<u>STORMWATER DRAINAGE</u> Supply and lay pipe culverts on class C bedding:	Prov Sum			R 300 000,00
1200 LE	Carried forward					

SANS 1200 LE - STORMWATER DRAINAGE

SECTION 1200 LE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
8.2.8	7,3	Supply and install catchpits:				
	7.3.1	Kerb inlets:				
	7.3.1.1	Length 5 m				
	7.3.1.1.1	Road 1	No.	1		
	7.3.1.2	Length 5 m				
	7.3.1.2.1	Road 1 A	No.	1		
SANS 1200	7,4	STORMWATER FROM EXISTING KERB INLETS				
8,2	7.4.1	Scheduled formwork items:				
8.2.1	7.4.1.1	Smooth	m ²	40		
8.3	7.4.2	Scheduled reinforcement items:				
8.3.1	7.4.2.1	Mild steel	t	1		Rate Only
	7.4.2.2	High-tensile steel	t	1		Rate Only
8.3.2	7.4.2.3	High-tensile welded mesh, ref no 395	m ²	25		
8.4	7.4.3	Scheduled concrete items:				
8.4.2	7.4.3.1	Blinding layer in:				
	7.4.3.1.1	Grade 10 concrete, minimum thickness 75 mm For inlet and outlet slabs with wingwall and headwalls	m ²	3		
8.4.3	7.4.3.2	Strength concrete:				
	7.4.3.2.1	Class 25MPa/19mm concrete for Headwalls, Wingwalls with inlet and outlet structures.	m ³	3		
8.4.4	7.4.3.3	Unformed surface finishes:				
	7.4.3.3.1	Wood-floated finish	m ²	4,5		
	TOTAL SECTION 1200 LE CARRIED TO SUMMARY					

SANS 1200 ME - SUBBASE		SECTION 1200 ME

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200	8	<u>SUBBASE & BASE</u>				
8.3.1	8,1	Construct the subbase course with material excavated in all materials or from borrow pits				
	8.1.1	Recycling of surfaced road together will Base and subbase (200mm) layer with 3% of 32.5N Lafarge Road Cement to achieve a C3, COMPACTED TO 98 MOD AASHTO				
	8.1.1.1	Road 1	m ³	98		
	8.1.1.2	Road 2	m ³	792		
	8.1.1.3	Road 3	m ³	290		
8.3.8	8,2	Stabilizing agent:				
	8.2.1	Lafarge road cement				
	8.2.1.1	Road 1	t	5		
	8.2.1.2	Road 2	t	60		
	8.2.1.3	Road 3	t	23		
PSME 8.3.9	8,3	Overhaul (haul exceeding 2 km):				
	8.3.1	Limited overhaul	m ³	1		Rate Only
	TOTAL SECTION 1200 ME CARRIED TO SUMMARY					

SANS 1200 MH - ASPHALT BASE AND SURFACING

SECTION 1200 MH

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200	10	<u>ASPHALT BASE AND SURFACING</u>				
8.5.1	10,1	Prime coat:				
	10.1.1	Prime coat of tar prime grade RTH 3/12P at the nominal rate of 0.8l/m ²				
	10.1.1.1	Road 1	m ²	462		
	10.1.1.2	Road 2	m ²	5280		
	10.1.1.3	Road 3	m ²	1980		
8.5.3	10,2	Tack coat:				
	10.2.1	30% stable-grade emulsion				
	10.2.1.1	Road 1	m ²	462		
	10.2.1.2	Road 2	m ²	52580		
	10.2.1.3	Road 3	m ²	1980		
	10.2.1.4	Road 4	m ²	3200		
8.5.4	10,2,1,5	Road 5	m ²	1320		
	10,3	Asphalt surfacing:				
	10.3.1	30mm thick Continuously graded medium asphalt 80/100 bitumen binder				
	10.3.1.1	Road 1	t	126		
	10.3.1.2	Road 2	t	110		
	10.3.1.3	Road 3	t	126		
	10.3.1.4	Road 4	t	110		
	10.3,1,5	Road 5	t	83		
8.5.5	10,4	Variations in quantities of prime, curing and tack coats, and bituminous binders:		1		
	10.4.1	RTH 3/12P or RTL 3/12P tar prime	litre			Rate Only
TOTAL SECTION 1200 MH CARRIED TO SUMMARY						

SECTION 1200 MK

SANS 1200 MK - KERBING AND CHANNELLING

PAYMENT REFERS TO						
	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200 MK PSMK 8.2.1	11	<u>KERBING AND CHANNELLING</u>				
	11,1	Precast concrete kerbing:				
	11.1.1	Lay precast kerbs of type SABS 927				
	11.1.1.1	Radius over 4 m up to 20 m				
	11.1.1.1.1	Road 1	m	30		
	11.1.1.1.1	Road 2	m	190		
	11,1,1,1.1	Road 3	m	150		
	11,1,1,1.1	Road 5	m	150		
	11.1.1.2	Radius over 20 m and straight sections				
	11.1.1.2.1	Road 1	m	70		
	11.1.1.2.1	Road 2	m	70		
	11.1.1.2.1	Road 3	m	150		
	11.1.1.2.1	Road 5	m	180		
	11.1.2	200mm wide x 150mm deed edge beams				
	11.1.2.1	Road 1 & 2	m	30		
	11.1.2.2	Road 3&5	m	25		
	11.1.3	Continuous 15 Mpa insitu concrete backing				
	11.1.3.1	Road 1& 2	m ³	4		
	11.1.3.2	Road 3& 5	m ³	7		
		removal of the existing kerbs and disposal within 5 km	m-km	500		
TOTAL SECTION 1200 MK CARRIED TO SUMMARY						

SANS 1200 MM - ANCILLARY ROADWORKS

PAYMENT REFERS TO						
	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
SANS 1200 MM	12	<u>ANCILLARY ROADWORKS</u>				
8,3	12,2	<u>PERMANENT ROAD SIGNS</u>				
8.3.1	12.2.1	Sign faces with galvanized background, painted symbols, characters, legends and borders with signboard constructed from:		8		
8.3.3	12.2.1.1	Sheet steel, (1,6 mm thick), of area Up to 2 m²	m²			Rate Only
	12.2.2	Sign supports:		1		
	12.2.2.1	Timber, 100mm dia and 2,7m lengths treated poles, complying with 3.2.10	No.	16		
8.3.4	12.2.2.2	Steel tubing, 75mm dia and 3,6m length galvanised pole	No.	1		
	12.2.3	Excavation and backfilling and concreting for sign supports:				
	12.2.3.1	Compacted backfilling in layers of 100mm with 1:12 cement soil mixture	m³	5		
1200 MM	Carried forward					

SECTION 1200 MM

SANS 1200 MM - ANCILLARY ROADWORKS

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
		Brought forward				
8,4	12,3	<u>ROAD MARKINGS</u>				
8.4.1	12.3.1	Proprietary brand road marking material applied at nominal rate of 0,42 litre/m²:				
	12.3.1.	White lines (broken or unbroken):				
	12.3.1. 2	100 mm wide	km	1.5		
	12.3.1. 3	White characters and symbols	m²	75		
8.4.2	12.3.2	Variation in rate of application from that stated in items 12.3.1:		25		
	12.3.2. 1	White paint	litre			
8.4.4	12.3.3	Setting out and premarking		1.5		
	12.3.3. 1	Lines (excluding traffic island markings, charecters and symbols)	km			
	12,4	Construct speed humps at the indicated chainages according to detail provided in drawings, The construction must include all labour, materials, signs and paint markings complete to detail.				
	12.4.1	Speed humps	No.	3		
	TOTAL SECTION 1200 MM CARRIED TO SUMMARY					

SUMMARY OF SCHEDULES OF QUANTITIES

SANS 1200 A		
:	GENERAL	
SANS 1200 C		R
:	SITE CLEARANCE	
SANS 1200 DB		R
:	EARTHWORKS (PIPE TRENCHES)	
SANS 1200 LB		R
:	BEDDING (PIPES)	
SANS 1200 LE		R
:	STORMWATER DRAINAGE	
SANS 1200 ME		R
:	SUBBASE .. & BASE	
SANS 1200 MH		R
:	ASPHALT BASE AND SURFACING	
SANS 1200 MK		R
:	KERBING AND CHANNELING	
SANS 1200 MM		
:	ANCILLARY ROAD WORKS	R

TOTAL OF SCHEDULES OF QUANTITIES

DATE :

SIGNED ON BEHALF OF TENDERER :

CALCULATION OF TENDER SUM

TOTAL OF SCHEDULES OF QUANTITIES R

CONTINGENCIES (ADD 10% OF TOTAL OF SCHEDULES OF QUANTITIES) R

SUBTOTAL R

VALUE-ADDED TAX (VAT)

The tenderer shall add 15% of the subtotal for value-added tax R

TENDER SUM CARRIED TO FORM OF TENDER

DATE :

SIGNED ON BEHALF OF TENDERER :