

SENQU LOCAL MUNICIPALITY

REPAIRING OF 6KM GRAVEL ROADS AND STORMWATER CHANNELS IN WARD 17: SUNDUZA, BENSONVALE AND JOZANAS NEK

PROVISIONAL SUMS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		SECTION 8: SUM STATED PROVISIONALLY BY THE ENGINEER				
1		Provisional sum for dismantling and re-erection of existing fences including erection of new fences where required	Prov-sum	1.00	R10,000.00	R10,000.00
2		Employment of Community Liason Officer (CLO) for the duration of the contract @ R6,000/person/month	Prov-sum	1.00	R84,000.00	R84,000.00
3		Provisional sum for employment of student @R 8000.00/student /month	Prov-sum	1.00	R48,000.00	R48,000.00
4		Provision for attending steering committee meetings,maximum of 6 members @ R 500.00/member/seating	Prov-sum	1.00	R27,000.00	R27,000.00
5		Provisions for Health and Safety Consultant	Prov-sum	1.00	R250,000.00	R250,000.00
6		Provisions for ECO Consultant	Prov-sum	1.00	R210,000.00	R210,000.00
7		Percentage for the contractors handling fee with respect to items 1 up to item 8 above limited to 15%	%	R 629,000.00		
TOTAL AMOUNT OF PROVISIONAL SUMS CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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1300 : CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
13.01	COLTO 1300	SECTION 1300 : CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
		(a) Fixed obligations	Sum	1.00		
		(b) Value-related obligations	Sum	1.00		
		(c) Time-related obligations	Sum	6.00		
TOTAL AMOUNT OF SECTION 1300 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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1500: ACCOMMODATION OF TRAFFIC

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	COLTO 1500	ACCOMMODATION OF TRAFFIC				
15.01		Accommodating traffic and maintaining temporary deviations	km	6.00		
15.02		<u>Earthworks for temporary deviations:</u>				
		(a) Shaping of temporary deviations	km	6.00		
15.03		<u>Temporary traffic-control facilities:</u>				
		(a) Flagmen	man-day	252.00		
		(b) Portable STOP and GO-RY signs	no.	8.00		
		(c) Temporary traffic-control signals as specified or as shown on drawings	no.	8.00		
		(d) Amber flicker lights	no.	8.00		
		(e) Road signs, R- and TR-series (size indicated)	no.	8.00		
		(f) Road signs, TW-series (size indicated)	no.	8.00		
		(g) Road signs, STW-, DTG-, TGS-, AND TG-series (excluding delineators and barricades)	no.	8.00		
		(h) Delineators (DTG50J) (size indicated):				
		(i) Single	no.	15.00		
		(ii) Mounted back to back	no.	25.00		
		(i) Movable barricade/road sign combination (size indicated)	no.	5.00		
		(j) Traffic cones	no.	20.00		
TOTAL AMOUNT OF SECTION 1500 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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1600: OVERHAUL

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	COLTO 1600	OVERHAUL				
16.01		Overhaul on material hauled in excess of a free-haul distance of 10 km, for haul up to or through 10.0 km (restricted overhaul)	m³	100.00		
16.02		Overhaul on material hauled in excess of 10.0 km	m³-km	1000.00		
TOTAL AMOUNT OF SECTION 1600 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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1700: CLEARING AND GRUBBING

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
17.01	COLTO 1700	CLEARING AND GRUBBING				
		Clearing and grubbing	ha	3.60		
17.02		<u>Removal and grubbing of large trees and tree stumps:</u>				
		(a) Girth exceeding 1 m up to and including 2 m	no.	2		
		(b) Girth exceeding 2 m up to and including 3 m	no.	Rate only		Rate only
B17.09		Demolition, removal and disposal off site of miscellaneous structures consisting of:				
		(a) Unreinforced concrete	m³	10		
		(b) Reinforced concrete	m³	5		
TOTAL AMOUNT OF SECTION 1700 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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REPAIRING OF 6KM GRAVEL ROADS AND STORMWATER CHANNELS IN WARD 17: SUNDUZA, BENSONVALE AND JOZANAS NEK

1800: DAYWORKS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
18.01	COLTO 1800	DAYWORKS					
		<u>Personnel during normal working hours</u>					
		a) Unskilled labour	h	7.00		Rate only	
		b) Semi-skilled labour	h	7.00		Rate only	
		c) Skilled labour	h	7.00		Rate only	
		d) Ganger	h	6.00		Rate only	
		e) Flagmen	h	7.00		Rate only	
		18.02	<u>Personnel outside normal working hours</u>				
			a) Outside normal working hours and Saturdays (i) Unskilled labour	h	7.00		Rate only
			b) Sundays and public holidays (i) Unskilled labour	h	7.00		Rate only
		18.03	Plant				
			a) Cat D7H Dozer or equivalent	h	7.00		Rate only
			b) Cat 350 Excavator or equivalent	h	7.00		Rate only
			c) Cat 428 TLB or equivalent	h	7.00		Rate only
			d) Cat 140G or equivalent	h	7.00		Rate only
			e) Cat 930 Loader or equivalent	h	7.00		Rate only
			f) Bomag BW90 Pedestrian roller or equivalent	h	7.00		Rate only
g) Watercart 5 000l	h		7.00		Rate only		
h) 5 m ³ Tippers	h		7.00		Rate only		
i) 10 m ³ Tippers	h		6.00		Rate only		
j) Chainsaw	h		6.00		Rate only		
18.04	<u>Transport</u>						
	a) LDV	Km	40.00		Rate only		
	b) Flatbed truck	Km	40.00		Rate only		
TOTAL AMOUNT OF SECTION 1800 CARRIED FORWARD TO SUMMARY OF SCHEDULES							

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2100: DRAINS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21.01	COLTO 2100	DRAINS				
		<u>Excavation for open drains:</u>				
		(a) Excavating soft material situated within the following depth ranges below the surface level:				
		(i) 0 m up to 1.5 m	m³	120.00		
		(ii) Exceeding 1.5 m and up to 3.0 m	m³	118.00		
		(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m³	65.00		
21.02		Clearing and shaping existing open drains	m³	900.00		
TOTAL AMOUNT OF SECTION 2100 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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2300: CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
23.01	COLTO 2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
		<u>Trimming of excavations for concrete-lined open drains:</u>				
		(a) In soft material	m ²	1000		
		(b) In hard material	m ²	Rate Only		Rate Only
23.02		<u>Concrete lining for open drains:</u>				
		(a) Cast in situ concrete lining (class of concrete 35MPa for the V-drain)	m ³	100.00		
		(b) Cast in situ concrete lining (Class of concrete 35MPa for concrete slab)	m ³	250.00		
		<u>Formwork to cast in situ concrete lining for open drains (class F2 surface finish):</u>				
23.03		(a) To sides with formwork on the internal face only	m	1000.00		
		Sealed joints in concrete linings of open drains and concrete apron	m	416.00		
23.04		<u>Steel reinforcement:</u>				
23.05		(a) Welded Steel fabric	kg	450.00		
		(b) High-tensile steel bars	t	Rate Only		Rate Only
		(b) High-tensile steel bars	t	Rate Only		Rate Only
23.06		<u>Concrete kerbing (Un-mountable kerb):</u>				
		(a) Figure 8C Pre-cast Concrete kerb	m	Rate only		Rate Only
TOTAL AMOUNT OF SECTION 2300 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

SENQU LOCAL MUNICIPALITY**REPAIRING OF 6KM GRAVEL ROADS AND STORMWATER CHANNELS IN WARD 17: SUNDUZA, BENSONVALE AND JOZANAS NEK****3200: SELECTION, STOCKPILING AND BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING PAVEMENT**

ITEM NO:	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
32.06	COLTO 3200	Selection, stockpiling and breaking-down the material from borrow pits, cuttings and existing pavement layers and placing and compacting the gravel layers Stockpiling of material	m ³	9000		
TOTAL AMOUNT OF SECTION 3100 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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REPAIRING OF 6KM GRAVEL ROADS AND STORMWATER CHANNELS IN WARD 17: SUNDUZA, BENSONVALE AND JOZANAS NEK

3300: MASS EARTHWORKS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
33.01	COLTO 3300	MASS EARTHWORKS				
		<u>Cut and borrow to fill, including free-haul up to 0.5 km:</u>				
		(ii) Compacted to 90% modified AASHTO density	m³	2970		
33.04		<u>Cut to spoil, including free-haul up to 0.5 km. Material obtained from:</u>				
		(a) Soft excavation	m³	3461.00		
		(b) Intermediate excavation	m³	297.00		
		(c) Hard excavation	m³	594.00		
		(d) Boulder excavation class A	m³	148.50		
33.10		<u>Roadbed preparation and the compaction of material:</u>				
		(a) Compaction to 90% of modified AASHTO density	m³	3600.00		
TOTAL AMOUNT OF SECTION 3300 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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3400: PAVEMENT LAYERS OF GRAVEL MATERIAL

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
34.01	COLTO 3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
		<u>Pavement layers constructed from gravel taken from cut or borrow, including free-haul up to 10km:</u>				
		(a) Gravel selected G7 layer compacted to 93 % of modified AASHTO density, using:				
		(i) Non-cemented material (150mm thick layer)	m ³	4500.00		
		(b) Gravel subbase G6 (unstabilized material) compacted to 95 % of modified AASHTO density, using:				
		(i) Non-cemented material (150mm thick layer)	m ³	4500.00		
		(c) Gravel base (chemically stabilized material) compacted to 95 % of modified AASHTO density, using:				
		(i) Non-cemented material (150mm thick layer)	m ³	Rate Only		Rate Only
		<u>Extra over item 34.01 for adding extra material as specified in subclause 3207(b)(iii):</u>				
		(a) Gravel shoulder wearing course	m ³	540.00		
		(b) Dump rock	m ³	Rate Only		Rate Only
TOTAL AMOUNT OF SECTION 3400 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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5100: PITCHING, STONework AND PROTECTION AGAINST EROSION

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT
51.01	COLTO 5100	PITCHING, STONework AND PROTECTION AGAINST EROSION				
		Stone pitching:				
		(a) Grouted stone pitching	m²	20.00		
51.02		Allow for planting of grass	m²	100.00		
TOTAL AMOUNT OF SECTION 5100 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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5200: GABIONS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT
52.01	COLTO 5200	GABIONS				
		Foundation trench excavation and backfilling :				
		(b) In all other classes of material	m³	150.00		
52.02		Surface preparation for bedding the gabions	m²	35.00		
52.03		Gabions				
		(a) Galvanized gabion boxes (2m x 1m x 1m boxes using un-weathered and solid without flaking or weathering rocks with the sizes ranging between 100mm to 200mm)	m³	180.00		
TOTAL AMOUNT OF SECTION 5200 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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5600: ROAD SIGNS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
56.01	COLTO 5600	ROAD SIGNS Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from : (a) Aluminium sheet (2.0 mm thick) : (i) Area not exceeding 2 m ² (ii) Area exceeding 2 m ² but not 10 m ² (iii) Area exceeding 10 m ² (a) Background of retro-reflective material : (i) Class I (b) Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material : (i) Class II (ii) Class III (Village Name boards)				
			m ²	10.00		
			m ²	Rate Only		Rate Only
			m ²	Rate Only		Rate Only
56.03		Road sign supports (overhead road sign structures excluded) : (a) Steel tubing (100mm diameter)				
			m	30.00		
TOTAL AMOUNT OF SECTION 5600 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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5900: FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
59.01	COLTO 5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS Finishing the road and road reserve:	Sum	1.00		
TOTAL AMOUNT OF SECTION 5900 CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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SCHEDULE A- OCCUPATIONAL HEALTH AND SAFETY

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A1		OCCUPATIONAL HEALTH AND SAFETY				
		Occupational Health and Safety				
A1.1		Contractors initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Lump Sum	1.00		
A1.2		Contractors time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Lump Sum	1.00		
A1.3		Submission of the Health and Safety File	Lump Sum	1.00		
A1.4		Project Name Board	No.	2.00		
TOTAL AMOUNT OF SCHEDULE A CARRIED FORWARD TO SUMMARY OF SCHEDULES						R0.00

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SCHEDULE B- ENVIRONMENTAL MANAGEMENT PLAN

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT
B100		ENVIRONMENTAL MANAGEMENT PLAN				
B100.01		Penalty for unnecessary removal or damage to trees for the following diameter sizes:				
		(a) 2 600mm girth or less	No			Rate Only
		(b) Greater than 2 600mm, but less than 6 180mmgirth	No			Rate Only
		(c) Greater than 6 180mm girth	No			Rate Only
B100.02		Penalty for serious violations:				
		(a) Hazardous chemical/oil spill and/or dumping in non-approved sites	No			Rate Only
		(b) General damage to sensitive environments	No			Rate Only
		(c) Damage to cultural and historical sites	No			Rate Only
		(d) Pollution of water sources	No			Rate Only
		(e) Unauthorised blasting activities	No			Rate Only
		(f) Uncontrolled/unmanaged erosion per incident, depending onenvironment impacts, plus rehabilitation at contractor's cost	No			Rate Only
		(g) Damage to sensitive vegetation within "no-go" areas of vegetation damaged, plus rehabilitation thereof at contractors cost	No			Rate Only
B100.03		Penalty for less serious violations:				
		(a) Littering on site	No			Rate Only
		(b) Lighting of illegal fires on site	No			Rate Only
		(c) Persistent or un-repaired fuel and oil leaks	No			Rate Only
		(d) Any person related to the contractor's operations found within the designated "no-go" areas	No			Rate Only
		(e) Any vehicles or equipment related to the Contractor's operations found within the designated "no-go" areas	No			Rate Only
		(f) Excess dust or excess noise emanating from site	No			Rate Only
		(g) Dumping of milled material in side drains or on grassed areas]	No			Rate Only
		(h) Possession or use of intoxicating substances on site	No			Rate Only
		(i) Any vehicles being driven in excess of designated speed limits	No			Rate Only
		(j) Removal and/or damage to flora or cultural or heritage objects on site, and/or killing of wildlife	No			Rate Only
		(k) Illegal hunting	No			Rate Only
		(l) Urination and defecation anywhere except in designated areas	No			Rate Only
TOTAL AMOUNT OF SCHEDULE B CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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SCHEDULE C- PROVISION OF STRUCTURED TRAINING

ITEM NO.	PAYMENT CLAUSE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C1200		Provision of Structured training				
C12.06		Provision for accredited training				
		c) PSC Training	Prov sum	1.00	R170,000.00	R170,000.00
		(c) Handling cost and profit in respect of sub-item C12.05 (a),(b),(c) and (d) above	%	R 170,000.00		
TOTAL AMOUNT OF SCHEDULE C CARRIED FORWARD TO SUMMARY OF SCHEDULES						

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DESCRIPTION	AMOUNT
<u>SUMMARY OF SCHEDULES</u>	
PROVISIONAL SUMS	
SECTION 1300 : CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
SECTION 1500 : ACCOMMODATION OF TRAFFIC	
SECTION 1600 :OVERHAUL	
SECTION 1700 : CLEARING ANG GRUBBING	
SECTION 1800: DAYWORKS	
SECTION 2100 : DRAINS	
SECTION 2200 : PREFABRICATED CULVERTS	
SECTION 2300 : CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LINNINGS FOR OPEN DRAINS	
SECTION 3200: SELECTION, STOCKPILING AND BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING PAVEMENT	
SECTION 3300 : MASS EARTHWORKS	
SECTION 3400: PAVEMENT LAYERS OF GRAVEL MATERIAL	
SECTION 5100 : PITCHING, STONWORK AND PROTECTION AGAINST EROSION	
SECTION 5200 : GABIONS	
SECTION 5600 : ROAD SIGNS	
SECTION 5900 : FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
OCCUPATIONAL HEALTH AND SAFETY - SCHEDULE A	
STRUCTURED TRAINING - SCHEDULE C	
SUB TOTAL 1	
VAT@15%	
Total	