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Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

BILL OF QUANTITIES

SECTION 1 PRELIMINARY AND GENERAL

PART AA PRELIMINARIES

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>GENERAL CONDITIONS OF CONTRACT (GCC2015) READ IN CONJUNCTION WITH CONTRACT DATA</u>				
1	GCC 2015	Fixed Charge obligations	sum	1		
2	GCC 2015	Time Related obligations	sum	1		
		<u>SANS 1921-1: GENERAL ENGINEERING AND CONSTRUCTION WORKS READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS</u>				
3	SANS 1921-1	Fixed Charge Items	sum	1		
4	SANS 1921-1	Time Related Items	sum	1		
5	C1.2.3.1	COMMUNITY LIAISON OFFICER	PC Sum	70000	1.00	70 000.00
6		Allow for CLO to be appointed	%	70000		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

R

PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>FIXED CHARGES</u>				
1	PS.AB.2	Offices for Engineer and Staff	sum	1		
2	PS.AB.4	Contractor's Camp Site / Store Yard	sum	1		
3	PS.15.3	Deductions for re-tests requested when density of a layer is not as per specification as determined by Acceptance Testing (minus R1000 per set)	set	1		
4	PS.AB.7	Initial Supply of all signs, barricades and delineators	sum	1		
5	AB.5	Notice Board as per Annexure C3.6.1	no.	1		
6	PS.11.1	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
7	PS.11.3	Additional Site Survey	PC Sum	2500	1.00	2 500.00
8	PS.11.3	Contractor's markup on item 7	%	2500		
		<u>TIME RELATED CHARGES</u>				
9	PS.AB.2	Offices for Engineer and Staff	sum	1		
10	PS.AB.4	Contractors Camp Site/Store Yard	sum	1		
11	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
12	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
13	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
14	PS.9.3	All work to comply with Environmental Management Plan including all reports, meetings, approvals (etc)	sum	1		
15	PS.11.2	Setting out of works	sum	1		
16	PS.12	Site Security	sum	1		
17	C1.2.3.6/PS.A B.8	Expected Risks: De-establishment costs	sum	1		
18	C1.2.3.6/PS.A B.8	Expected Risks: Re-establishment costs	sum	1		
19	PS.19.1	Penalties for not removing unwanted material by end of work day	day	0		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AH.14.1/ PS.10	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2/ PS.10	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3/ PS.10	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

R

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

SECTION 2 ROADWORKS & FOOTPATHS

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing including trees up to a maximum girth of 1.5m and including the contractor's campsite	m2	2010		
2	B.8.4	Removal of trees of girth exceeding 1,5 m	no.	5		
3	PS.B.8.5	Removal of 1,2 m - 2,4 m high wire mesh fence, stockpile and reinstate. Rate to include all haulage	m	40		
4	B.8.9	Removal of brickwork	m2	26		
5	PS.B.8.13	Removal of reinforced/unreinforced concrete	m3	10		
6	B.8.13	Removal of existing asphalt roadway to tip	m3	5		
7	PS.B.8.24	Removal of informal retaining structures	m2	20		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 20MPa/19mm concrete for Footpaths (Class 3 - Wood Float Surface Finish)	m3	68		
2	C.8.1	Grade 20MPa/19mm concrete for Handrail Post Bases and Bollard Bases	m3	3		
3	C.8.1	Grade 30MPa/28mm concrete for 3m wide Access Road	m3	45		
4	C.8.2	Welded steel reinforcing mesh - Ref 193	t	1.7		
5	C.8.2	Welded fabric reinforcement - Ref Mesh 311	t	0.9		
6	C.8.3	Class 1 Formwork for concrete works	m2	145		
7	PS.C.8.4	Movement Joints for footpaths as per Detail E on Drawing No. 74603 (Sheet 5 of 5)	m	100		
8	PS.C.8.5	Saw cut joints for footpaths as per Detail E on Drawing No. 74603 (Sheet 5 of 5)	m	180		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

PART DA EARTHWORKS : BULK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.2	Remove 100mm topsoil to stockpile and if surplus to requirements, spoil in an approved dump site. Rate to include for stockpile handling.	m3	147		
2	DA.8.3	Excavate in all material, deposit and spread material as fill or stockpile or,if surplus to requirements, spoil in an approved dump site. Rate to include for stockpile handling.	m3	450		
3	DA.8.3	Excavate soft material in the road reserve and place directly into fill	m3	41		
4	DA.8.3	Extra over on item 2 for excavation in hard material	m3	104		
5	DA.8.3	Extra over on item 2 for excavation in rock material	m3	17		
6	DA.8.3	Extra over on item 2 for excavation of boulders greater than 0.15m3 to spoil	m3	10		
7	DA.8.3	Excavation of unsuitable material below embankments or formation and spoil on site	m3	95		
8	DA.8.5	Compact soft material to 93% Mod. AASHTO	m3	166		
9	DA.8.4	Import G5 Material from commercial sources	m3	50		
10	DA.8.4	Import G7 material from commercial sources	m3	126		
11	DA.8.5	Compact imported G5 material to 95% Mod. AASHTO.	m3	50		
12	DA.8.5	Compact imported G7 material to 93% Mod. AASHTO.	m3	126		
13	PS.DA.8.11	Rip and re-compact insitu material to DN 3.7 - 5.7	m3	166		
14	DA.8.6	Trimming of embankments	m2	360		
15	DA.8.9	Formation	m2	1300		
16	DA.8.9	Extra over item 17 above for areas of cut or where the fill layer thickness is less than 150mm	m2	50		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

PART EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	Fig.12 kerb	m	650		
2	EF.8.1	Extra over item 1 for curves of radius less than 25 m	m	20		

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

Part Continued **PART** EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
3	EF.8.1	Type F mountable kerb and cast insitu channel as per drawing 38577	m	200		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.EG.8.7	Precast Concrete Steps (Base steps or similar approved) including Grade 15MPa/13mm base as per Detail A on Drawing No. 74603 (Sheet 5 of 5)	no.	220		
2	PS.EG.8.8	Handrails as per Detail A on Drawing No. 74603 (Sheet 5 of 5)	m	40		
3	PS.EG.8.9	Precast Handrail Posts as per Detail A on Drawing No. 74603 (Sheet 5 of 5)	no.	20		
4	PS.EG.8.10	Precast Concrete Bollards as per Detail D on Drawing No. 74603 (Sheet 5 of 5)	no.	3		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Topsoiling on banks, verges and service lines from stockpile - thickness 100mm	m2	130		
2	PS.F.8.3	Grass planting on banks, verges and service lines. Rate to include for supply and lay of Cynodon 'Dactylon' grass, fertilizer and maintenance etc.	m2	130		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

PART TA ROAD SIGNS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TA.8.1	Supply and erect road sign boards, area not exceeding 2m2 including galvanising	m2	1		
2	TA.8.2	Supply and erect standard 76mm diameter hot dipped galvanised road name sign supports	no.	2		
3	TA.8.3	Excavate and backfill for road sign supports	m3	1		
4	TA.8.4	Concrete grade 20MPa/19mm for road sign footings	m3	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

PART TB ROAD MARKINGS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TB.8.1.1	Road marking for letters, symbols and traffic islands (white). Symbol RTM1 EB4 Road markings for letters, symbols and traffic islands (white). Symbol RTM1	km	0.4		

TOTAL CARRIED TO SECTION 2 SUMMARY: ROADWORKS FOOTPATHS

R

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

SECTION 3 STORMWATER DRAINAGE

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.3	General clearance and grubbing for pipelines within a servitude for a width of 2m	m2	275		

TOTAL CARRIED TO SECTION 3 SUMMARY: STORMWATER DRAINAGE

R

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 20MPa/19mm concrete for 600mm wide x 100mm thick 'trapezoidal' drain.	m3	7.6		
2	C.8.2	Welded steel reinforcing mesh - Ref 193	t	0.25		
3	C.8.3	Class 1 Formwork for concrete drain	m2	19		

TOTAL CARRIED TO SECTION 3 SUMMARY: STORMWATER DRAINAGE

R

PART DB EARTHWORKS FOR PIPE TRENCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.4	Remove Topsoil to stockpile and if surplus to requirement, spoil in approved dump site. Depth 100mm. Rate to include for stockpile handling.	m2	275		
2	DB.8.5	Excavation of unsuitable material from trench bottom	m3	20		
3	DB.8.5	Restricted excavation and backfilling	m3	5		
4	PS.DB.8.5	Excavate and backfill in all material for 450 mm diameter pipe where depth is :- - Over 0,0 m and not exceeding 1,5 m	m3	79		
5	PS.DB.8.5	Excavate and backfill in all material for 450 mm diameter pipe where depth is :- - Over 1.5m and not exceeding 2,0m	m3	110		
6	DB.8.6	Extra over items 5-6 for hard material	m3	30		
7	DB.8.6	Extra over items 5-6 for rock	m3	21		
8	DB.8.9	Provision of selected fill for pipe bedding from scheduled excavation.	m3	10		
9	DB.8.9	Provision of selected fill for pipe bedding from a commercial or off- site source	m3	25		
10	DB.8.9	Provision of clean coarse sand for pipe bedding from commercial or off-site source	m3	25		
11	DB.8.9	Provision of 19 mm stone chippings for trench bottom from commercial or offsite source	m3	55		

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)
Part Continued PART DB EARTHWORKS FOR PIPE TRENCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
12	DB.8.10	Placing and compacting of Class C bedding for 450mm diameter pipe	m3	35		
13	DB.8.15	Disposal of unsuitable or surplus material including material displaced by pipe from trench excavation	m3	32		
14	DB.8.19	Prove existing services by hand excavation (provisional), where depth is: - - Over 0,0 m and not exceeding 1,5 m	m3	5		

TOTAL CARRIED TO SECTION 3 SUMMARY: STORMWATER DRAINAGE
R
PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Topsoiling from stockpile as directed by the Engineer - thickness 100mm	m2	20		
2	PS.F.8.3	Grass planting as directed by the Engineer. Rate to include for supply and lay of Cynodon 'Dactylon' grass, fertilizers, pesticides etc	m2	20		
3	F.8.6	Gabion Mattresses: 300mm thick	m3	3		

TOTAL CARRIED TO SECTION 3 SUMMARY: STORMWATER DRAINAGE
R
PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2	450mm diameter Weholite stormwater pipe with rubber seal joint or similar approved. (Pressure rating = 1.5bar, Ring Stiffness = 4KN/m2)	m	110		
2	PG.8.5	Grade 20MPa/26mm concrete for anchor blocks as per Standard Detail No. 38575	no.	5		
3	PG.8.12.1	Geotextile blanket as surround to subsoil pipe (1.6mm thick, Penetration load = 1.7KN, Porosity = 93%)	m2	83		
4	PG.8.12.2	110mm diameter slotted sub-soil pipe	m	55		

TOTAL CARRIED TO SECTION 3 SUMMARY: STORMWATER DRAINAGE
R
PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.PH.8.2	Standard Single Stormwater manhole. As per standard detail drawing No. 38572. Depth:- Over 0.0m and not exceeding 1.5m	no.	3		

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

Part Continued **PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
2	PS.PH.8.2	Standard Single Stormwater manhole. As per standard detail drawing No. 38572. Depth:- Over 1.5m and not exceeding 2m	no.	3		
3	PS.PH.8.3	Standard inlet manhole type S1. Depth as per standard detail drawing No. 38572. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	1		
4	PS.PH.8.3	Single Splay Stormwater inlet manhole - Right Type S2. As per Drawing : 38572 Depth :- - 1.5m and not exceeding 2.0m	no.	0		
5	PS.PH.8.10	Connect to the existing manhole	no.	1		
6	PH.8.2	Extra over item 1-2 for type B benching	no.	1		
7	PH.8.2	Extra over item 1-2 for type A channel with 450 x 450mm junction including any change in direction.	no.	3		

TOTAL CARRIED TO SECTION 3 SUMMARY: STORMWATER DRAINAGE

R

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

SECTION 4 **RETAINING STRUCTURES - CIVIL WORKS**

PART B **SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General site clearance and grubbing	m2	160		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

PART C **CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 25MPa/19mm concrete for retaining wall bases	m3	10		
2	C.8.2	Welded steel reinforcing mesh - Ref 245	t	0.1		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

PART DA **EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.4	Import G7/G9 material from commercial sources	m3	10		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

PART DB **EARTHWORKS FOR PIPE TRENCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.9	Provision of 19 mm single size stone chippings for subsoil drain from commercial or off-site source	m3	20		
2	DB.8.9	Provision of clean coarse sand for pipe trench bedding from commercial or offsite source	m3	4		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

PART DD **EARTHWORKS FOR STRUCTURES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2	Excavate in all material, load, haul, deposit, stockpile or if surplus to requirements or unsuitable spoil in an approved dump site. Rate to include for stockpile handling	m3	48		
2	DD.8.2	Extra over item 1 for hard material	m3	14		
3	DD.8.2	Extra over item 1 for rock	m3	6		
4	DD.8.3	Backfill G7/G9 material and compact to 93% MOD AASHTO	m3	20		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Supply and construct the following blocks:</u>				
1	PS.F.8.9	Supply and construct dry stack retaining wall using Geolok - G400 or similar approved	m2	95		
2	PS.F.8.11	50mm dia. uPVC Pipe for retaining wall	no.	20		
3	PS.F.8.10	Soilcrete or stabilised fill material	m3	38		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.12.1	Geotextile blanket for gabion baskets(2.3mm thick, Penetration load = 2.5KN, Porosity = 93%)	m2	145		
2	PG.8.12.1	Geotextile blanket as surround to Subsoil Drains (1.6mm thick, Penetration load = 1.7KN, Porosity = 93%)	m2	130		
3	PG.8.12.2	110 mm diameter pitch fibre sub-soil pipes	m	110		
4	PS.PG.8.14	Sub-soil drains and outlets	no.	2		

TOTAL CARRIED TO SECTION 4 SUMMARY: RETAINING STRUCTURES - CIVIL WORKS

R

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 PRELIMINARY AND GENERAL

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BILL OF QUANTITIES SECTION SUMMARY**SECTION 3 STORMWATER DRAINAGE**

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TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY**SECTION 4 **RETAINING STRUCTURES - CIVIL WORKS****

PART B	SITE CLEARANCE	
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TOTAL CARRIED TO FINAL SUMMARY		

Provision of Incremental Services to Informal Settlements within the Western Region: Asinamali: Access Roads, Footpaths and Associated Stormwater Control (Ward 63)

SUMMARY OF BILL OF QUANTITIES

1	PRELIMINARY AND GENERAL		R	_____
	AA PRELIMINARIES	R		_____
	AB GENERAL SPECIFICATIONS	R		_____
	AH OCCUPATIONAL HEALTH and SAFETY	R		_____
2	ROADWORKS & FOOTPATHS		R	_____
	B SITE CLEARANCE	R		_____
	C CONCRETE WORK	R		_____
	DA EARTHWORKS : BULK	R		_____
	EF KERBS AND HAUNCHES	R		_____
	EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R		_____
	F PROTECTION WORKS	R		_____
	TA ROAD SIGNS	R		_____
	TB ROAD MARKINGS	R		_____
3	STORMWATER DRAINAGE		R	_____
	B SITE CLEARANCE	R		_____
	C CONCRETE WORK	R		_____
	DB EARTHWORKS FOR PIPE TRENCHES	R		_____
	F PROTECTION WORKS	R		_____
	PG NON PRESSURE PIPELINES and PC CULVERTS	R		_____
	PH MANHOLES and APPURTENANT DRAINAGE WORKS	R		_____
4	RETAINING STRUCTURES - CIVIL WORKS		R	_____
	B SITE CLEARANCE	R		_____
	C CONCRETE WORK	R		_____
	DA EARTHWORKS : BULK	R		_____
	DB EARTHWORKS FOR PIPE TRENCHES	R		_____
	DD EARTHWORKS FOR STRUCTURES	R		_____
	F PROTECTION WORKS	R		_____
	PG NON PRESSURE PIPELINES and PC CULVERTS	R		_____
SUB TOTAL			R	_____
ADD VAT (15%) - (only if a registered VAT Vendor)			R	_____
TOTAL CARRIED TO FORM OF TENDER			R	_____