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**BILL OF QUANTITIES****SECTION 1 Preliminaries****PART AA PRELIMINARIES**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	GCC 2015	GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA  Fixed Charge obligations	sum	1		
2	GCC 2015	Time Related obligations	sum	1		
3	SANS 1921-1	SANS 1921-1 : GENERAL ENGINEERING AND CONSTRUCTION WORKS READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS  Fixed Charge Items	sum	1		
4	SANS 1921-1	Time Related Items	sum	1		
5	C1.2.3.1	COMMUNITY LIAISON OFFICER (Allows for one CLO per contract at an average of 80 hours per contract)	PC Sum	2700000	1.00	2,700,000.00
6	C1.2.3.2	LOCAL LABOUR  Allow for the weekly submission of proof of employment of local labour	sum	1		
7		CIDB B.U.L.D Programme Fees	PC Sum	160000	1.00	160,000.00

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminaries

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 1 Preliminaries**

PART AA	PRELIMINARIES	
TOTAL CARRIED TO FINAL SUMMARY		

**Managing Contractor for the Implementation of Civil Infrastructure for all Ethekewini regions.**

**SECTION 2 General Specifications**

**PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.2	FIXED CHARGES	sum	1		
		Offices for Managing Contractor and Staff				
2	AB.2	Services Connection Fee (electrical / water / telephone) (Provisional)	PC sum	600000	1.00	600,000.00
3	AB.3	Installation of Telephone / Fax	sum	1		
4	AB.4	Contractor's Camp Site / Store Yard	sum	1		
5	AB.5	Notice Board	no.	1		
6	AB.7	Road Deviations	sum	1		
7	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
8		Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
9		Allow for the following Additional Items which the tenderer requires to be priced separately :-	sum	1		
		a)				
10		b)	sum	1		
11		c)	sum	1		
12	AB.3	Rental of Telephone / Fax for Engineer's Office Including Payment of Telephone / Service Accounts (Provisional Sum)	sum	1		
13	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	PC Sum	1200000	1.00	1,200,000.00
14	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
15	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
16		Survey for, and Preparation of, 'As-Built' Drawings	PC Sum	1200000	1.00	1,200,000.00
17		Allow the following additional items which the tenderer required to be priced separately :-	sum	1		
		a)				
18		b)	sum	1		
19		c)	sum	1		

Managing Contractor for the Implementation of Civil Infrastructure for all Ethekekwini regions.

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Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
20	C1.2.3.6	Time related cost for compliance with the requirements of ETA RETS	months	24		

TOTAL CARRIED TO SECTION 2 SUMMARY: General Specifications

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 2    General Specifications**

PART	AB	GENERAL SPECIFICATIONS	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 3 Occupational Health and Safety****PART AH OCCUPATIONAL HEALTH and SAFETY**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	AH.14.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	months	24		
3	AH.14.3	Submission of the Health and Safety File for each subcontractor	no.	1		

**TOTAL CARRIED TO SECTION 3 SUMMARY: Occupational Health and Safety**

**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 3 Occupational Health and Safety**

PART	AH	OCCUPATIONAL HEALTH and SAFETY	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 4 Site Clearance****PART B SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing in road reserve	m2	15000		
2	B.8.2	General clearance and grubbing within a servitude	m2	4500		
3	B.8.2	General clearance and grubbing in private property	m2	3000		
4	B.8.4	Removal of large trees and stumps	no.	150		
5	B.8.5	Removal of 0 - 1.8m high wire mesh fence and store on site for re-use	m	360		
6	B.8.5	Removal of 0 - 1.8 m high wire mesh fence and spoil at tip Rate to include all haulage	m	450		
7	B.8.5	Removal of 0 - 1.8 m high precast concrete fence and store on site for re-use	m	360		
8	B.8.5	Removal of 0 - 1.8 m high precast concrete fence and spoil at tip Rate to include all haulage	m	360		
9	B.8.6	Removal of guardrail and posts and store on site for re-use	m	1050		
10	B.8.6	Removal of guardrail and posts and spoil at tip Rate to include all haulage	m	1050		
11	B.8.7	Removal of street/traffic signs and posts and store on site for re-use	no.	360		
12	B.8.7	Removal of street/traffic signs and posts and spoil at tip Rate to include all haulage	no.	90		
13	B.8.7	Removal of bollards and spoil at tip Rate to include all haulage	no.	300		
14	B.8.14	Removal of roadways to tip Rate to include haulage	m3	1500		
15	B.8.15	Removal of concrete sidewalks/ median to tip	m3	360		
16	B.8.15	Removal of asphalt to tip	m3	270		
17	B.8.15	Removal of interlocking blocks in paved areas to tip	m3	450		
18	B.8.15	Removal of concrete sidewalks/ median to tip	m3	600		
19	B.8.15	Removal of brick paving to tip	m3	300		
20	B.8.16	Removal of asphalt extruded haunch to tip	m3	300		

**Managing Contractor for the Implementation of Civil Infrastructure for all Ethekewini regions.**


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**Part Continued PART B SITE CLEARANCE**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
21	B.8.16	Removal of precast kerb to tip	m3	450		
22	B.8.17	Scarify existing hardened areas Depth : 0 to 100 mm	m2	600		
23	B.8.17	Scarify existing hardened areas Depth : 100 to 150 mm	m2	600		
24	B.8.17	Scarify existing hardened areas Depth : exceeding 150 mm	m2	600		
25	B.8.18	Removal of excess scarified material to spoil. Rate to include all haulage	m3	750		

**TOTAL CARRIED TO SECTION 4 SUMMARY: Site Clearance**
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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 4    Site Clearance**

PART B        SITE CLEARANCE	
TOTAL CARRIED TO FINAL SUMMARY	

**SECTION 5 Concrete works****PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1		Supply and lay TB300 Terrace Block (or approved equivalent) inclusive of sand filling as per detail	m2	3500		
2		Supply and lay TB500 Terrace Block (or approved equivalent) inclusive of sand filling as per detail	m2	3500		
3		Base type A including mesh ref.245, excavation and compaction of sub-grade to 95% Mod. A.A.S.H.T.O	m	1400		
4	C.8.1	Grade 15/26 mass concrete in and between top row of blocks	m3	300		
5		1300mm wide geofabric extending into fill laid under 3rd row. (Kaymat U44 or approved equivalent).	m	7000		

TOTAL CARRIED TO SECTION 5 SUMMARY: Concrete works

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 5    Concrete works**

PART C	CONCRETE WORK	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 6 Earthworks:bulk****PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.2	Excavate topsoil and stockpile	m3	2000		
2	DA.8.2	Excavate topsoil and spoil at tip	m3	2000		
3	DA.8.3	Excavate soft material and place directly into fill	m3	1200		
4	DA.8.3	Excavate soft material to spoil	m3	1400		
5	DA.8.3	Extra over above for the excavation of intermediate material to spoil	m3	1200		
6	DA.8.4	Import suitable G6 fill material	m3	1200		
7	DA.8.5	Compact soft material from site to 95% Mod. A.A.S.H.T.O.	m3	10500		
8	DA.8.5	Compact imported fill material to 95% Mod. A.A.S.H.T.O.	m3	10500		
9	DA.8.9	Formation	m2	10500		
10	DA.8.3	Excavate unsuitable material below embankments or formation and spoil at tip	m3	300		
11	DB 8.19	Proving of sevicees	m3	900		
12	DA.8.3	Extra over above for excavation in hard material to fill	m3	300		
13	DA.8.3	Extra over above for excavation of boulders greater than 0,15 m3 to fill	m3	300		
14	DA.8.3	Extra over above for excavation in intermediate material to stockpile	m3	360		
15	DA.8.3	Extra over for excavation in hard material to stockpile	m3	300		
16	DA.8.3	Extra over above for excavation of boulders greater than 0,15 m3 to stockpile	m3	300		

TOTAL CARRIED TO SECTION 6 SUMMARY: Earthworks:bulk

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**PART EB GRADED CRUSHED STONE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EB.8(1) EB123 EB1234	Graded crushed stone, 100 mm thick This is a test line This is another test	m3	240		
2	EB.8(1) EB1234 EB12345 EB123456	Graded crushed stone, 150 mm thick	m3	360		
3	EB.8(2)	Prime coat	m2	2100		

TOTAL CARRIED TO SECTION 6 SUMMARY: Earthworks:bulk

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**Managing Contractor for the Implementation of Civil Infrastructure for all Ethekeini regions.**
**PART      EC      CEMENT TREATED GRADED CRUSHED STONE**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	EC.8(a)	Cement treated C3 layer using graded crushed stone 125 mm thick	m3	6000		
2		Extra over item for working C3 in restrictd areas	m3	600		
3	EC.8(b)	Prime coat	m2	3000		
4	EC.8	Extra over item for cement stabilising agent	m3	15		
5	EC.8.1	Trial section for cement treated graded crushed stone( C3 ) to thickness	m3	30		

**TOTAL CARRIED TO SECTION 6 SUMMARY: Earthworks:bulk**
**R**
**PART      EL      DUMPROCK SUBGRADE IMPROVEMENT**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	EL.8	Dumprock subgrade improvement, 150 mm thick	m3	1800		
2	EL.8	Dumprock subgrade improvement, 300 mm thick	m3	900		

**TOTAL CARRIED TO SECTION 6 SUMMARY: Earthworks:bulk**
**R**

**BILL OF QUANTITIES SECTION SUMMARY****SECTION 6 Earthworks:bulk**

PART DA	EARTHWORKS : BULK	
PART EB	GRADED CRUSHED STONE	
PART EC	CEMENT TREATED GRADED CRUSHED STONE	
PART EL	DUMPROCK SUBGRADE IMPROVEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 7 Road Asphalt****PART ED ROAD ASPHALT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	ED.8.4	Tack coat, 0.3 l/m <sup>2</sup> shall be sprayed onto road surface	m <sup>2</sup>	22000		
2	PS 17	Saw Cut existing asphalt surface to a depth of 50mm	m	27000		
3	PS 16	Construct Speed Hump at eThekwini Mix "A" asphalt specification with Bitumen of +/-5.7% compacted to 98% MOD ASSHTO, as per drawing no 46352 Rev 001 or 46223 Rev 001	t	4200		
4	ED	Private Plant Asphalt 50mm . Bitumen content % as per mix design entered at time of use.	t	450		
5	ED	Private Plant Asphalt 80mm . Bitumen content % as per mix design entered at time of use.	t	450		
6	ED	Private Plant Asphalt 100mm. Bitumen content % as per mix design entered at time of use.	t	450		

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Asphalt

R

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 7 Road Asphalt**

PART ED	ROAD ASPHALT	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 8 Kerbs and Haunches****PART EF KERBS AND HAUNCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1 PS	Supply and Lay Figure 12 kerb barrier kerb with concrete channel as detailed on drawing No.38577	m	18000		
2	EF.8.1	Supply and Lay Figure.6 Type E Mountable kerb as detailed on Drawing No. 38577	m	18000		
3	EF.8.1	Extra over item 1,2,3 for curves of radius less than 25 m	m	4500		
4	EF.8.1	Scoop kerb and channel (Type A) including transition kerb	m	1500		

TOTAL CARRIED TO SECTION 8 SUMMARY: Kerbs and Haunches

**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 8    Kerbs and Haunches**

PART	EF	KERBS AND HAUNCHES	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 9 Sidewalk, footpaths and Median Areas****PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EG.8.1 EG 5.1 EG187.7 EG1567	Asphalt sidewalk/footpath with 100mm G2 graded crushed stone overlaid by 25mm Mix A Asphalt (Rate to include weedkiller)	m2	33000		
2	EG.8.2 PS	Supply and lay precast concrete steps 1m wide inclusive of all excavations and preparations. Rate to include 75mm grade 20/1 concrete base as per standard Drawing No.38581	m2	300		
3	EG.8.5 EG 5.4	Asphalt vehicular access hardening with 150mm G2 graded crushed stone overlaid by 30mm Mix A asphalt (Rate to include weedkiller)	m2	30000		
4	EG.8.2 PS	Supply and Install handrail posts as per standard Drawing No.38581	m	750		

**TOTAL CARRIED TO SECTION 9 SUMMARY: Sidewalk, footpaths and Median Areas**

**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 9 Sidewalk, footpaths and Median Areas**

PART	EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 10 Guardrails****PART EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
<b><u>STEEL GUARDRAILS</u></b>						
1	EH 8.1 PS 22.1	Supply and install straight steel guard rails as per Drawing No. 38580.	m	7000		
2	EH 8.1 PS 22.1	Supply and install curved steel guardrails. Refer to Annexure for detail.	m	3000		
3	EH.5.1.2 PS 22.2	Single head post as per Drawing No. 38580.	no.	2700		
4	EH 5.1.3	Fish Tail type end. Refer to annexure for detail.	no.	2100		
5	EH 5.1.3	Bull Nose Type end. Refer to Annexure for detail.	no.	900		

TOTAL CARRIED TO SECTION 10 SUMMARY: Guardrails

R

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 10 Guardrails**

PART	EH	STEEL GUARDRAILS & CONC. MEDIAN BARRIERS	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 11 Protection Works****PART F PROTECTION WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Topsoiling from stockpile	m2	750		
2	PS.21	Supply and erect concrete bollard as per standard drawing No. 38580. Rate to include for backfill and compaction in all material	no.	1500		
3		Re-erect 0-1.8m high wire mesh fence using materials stored on site	m	300		
4		Re-erect 0-1,8 m high precast concrete fence using materials stored on site	m	300		
5	AA.F.[.]	Supply and lay 2,4m high clear view fence	m	1800		
6	F.8.6	Gabion boxes : 1000 mm depth : Supply and lay	m3	600		

**TOTAL CARRIED TO SECTION 11 SUMMARY: Protection Works****R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 11 Protection Works**

PART F	PROTECTION WORKS	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 12 Manholes and Appurtenant Drainage Works****PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PH.8.7	Raise/lower cast iron valve cover in paved area by :- - 0 to 250 mm	no.	60		
2	PH.8.7	Raise/lower cast iron valve cover paved area by :- - 250 to 500 mm	no.	60		
3	PH.8.7	Raise/lower existing manhole with concrete cover and frame in paved area by :- - 0 to 250 mm	no.	60		
4	PH 8.7	Raise/lower existing manhole with concrete cover and frame in paved area by :- - 250 to 500 mm	no.	60		
5	PH.8.3	Standard inlet type S1. Depth :- - Over 0,0 m and not exceeding 1,5 m. Refer to eThekwini Standard Drawing No. 38572.	no.	12		
6	PH.8.3	Standard inlet type S2. Depth :- - Over 0,0 m and not exceeding 1,5 m. Refer to eThekwini Standard Drawing No. 38572.	no.	12		
7	PH.8.3	Standard inlet type D3. Depth :- - Over 0,0 m and not exceeding 1,5 m. Refer to eThekwini Standard Drawing No. 38572.	no.	12		
8	PH.8.3	Standard inlet type S3. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	12		
9	PH.8.2	Standard precast concrete ring manhole. Heavy duty cast iron cover and frame - Over 0 m and not exceeding 1,5 m	no.	30		

**TOTAL CARRIED TO SECTION 12 SUMMARY: Manholes and Appurtenant Drainage Works****R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 12 Manholes and Appurtenant Drainage Works**

PART	PH	MANHOLES and APPURTENANT DRAINAGE WORKS	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 13 Road Signs****PART TA ROAD SIGNS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TA.1 PS 18.1	Supply and erect W332 road sign on class 4 and 5 roads as per Drawing No. 4262A Rev 001. Rate to include for W332 road sign as per specification, clamps, bolts, nuts and assembly	no.	2100		
2	TA 8.2 PS 18.2	Supply and erect 76mm x 2mm square hot dipped galvanised post with soilcrete base (350mm x 350mm x 800mm deep), excavation, backfill, compaction and removal of any excess material to tip as per Drawing No. 4262A Rev 001. Rate to include for haulage	no.	4200		
3	TA.1 PS 18.3	Supply and install road sign W401 and W402 on bollard. The four corners of the sign is to be bolted. The bolt shaft is to be epoxied	no.	1500		
4	TA 3.4 PS 22.3	Supply and Install Reflective Plates on guard rails	no.	1400		

TOTAL CARRIED TO SECTION 13 SUMMARY: Road Signs

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 13 Road Signs**

PART	TA	ROAD SIGNS	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 14 Road Marking****PART TB ROAD MARKINGS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TB.8.1.1 PS.20	Painted road lines 100-150mm wide (White), with retro reflective paint in the road centre line, including setting out and premarking. Rate to include for two coats of paint as per manufacturers specification. Paint must be SABS approved.	m	9000		
2	TB.8.1.1 PS.20	Painted road lines 200m wide (White), with retro reflective paint on speed hump, rate to include setting out and premarking of speed hump (WM10). Rate to include for two coats of painting as per manufacturers specification. Paint must be SABS approved. Refer to Drawing 46352 Rev 001 or 46223 Rev 001	m	5400		
3	TB.8.3 PS.19	Supply and install double-sided red/red 43 Alluminium Lynx Studs with anchor shanks. Rate to include for cleaning road surface, drilling the anchor hole and supply of epoxy. Refer to Drawing 43924A/1	no.	3600		
4	TB.8.1.1 PS.20	Supply and Install double-sided yellow/yellow 43 Alluminium Lynx Studs with anchor shanks. Rate to include for cleaning road surface, drilling the anchor hole and supply of epoxy. Refer to Drawing 43924A/1	m	3600		
5	TB.8.1.1 PS.20	Painted road lines 300mm wide (White) RTM 1 Stop Line, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	450		
6	TB.8.1.1 PS.20	Painted road lines 300mm wide (White) RTM 2 Yield, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	450		
7	TB.8.1.1 PS.20	Painted road lines 100mm wide (White) RM 3 Pedestrian crossing line, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	1500		
8	TB.8.1.1 PS.20	Painted road lines 100mm wide (White) RM 1 No Overtaking line including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	1050		

Part Continued **PART** TB ROAD MARKINGS

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	TB.8.1.1 PS.20	Painted road lines 100mm wide (White) RM 3 Channelising / Staking line, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	2000		
10	TB.8.1.1 PS.20	Painted road lines 100mm wide (White) RM 3 Dividing line, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	2000		
11	TB.8.1.1 PS.20	Painted road lines 100mm wide (yellow) RM 4.1 Left Edge Line, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m	2000		
12	TB.8.1.2	Painted road lines 100mm wide (white) RM 4.2 Right Edge Line, including setting out and premarking (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m <sup>2</sup>	2000		
13	TB.8.1.2	Road Marking for lettering, symbols and traffic islands (white), including setting out lettering, symbols and traffic island markings. (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m <sup>2</sup>	60		
14	TB.8.1.2	Road Marking for lettering, symbols and traffic islands (yellow), including setting out lettering, symbols and traffic island markings. (refer to SARTSM Traffic Signal Design - VOL 3 Chapter 5.10 - 5.13)	m <sup>2</sup>	60		

TOTAL CARRIED TO SECTION 14 SUMMARY: Road Marking

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 14 Road Marking**

PART	TB	ROAD MARKINGS	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 15 Reinstatement****PART S REINSTATEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	S.8.1	Reinstatement of ground surface to match existing	m2	150		
2	S.8.2	Reinstatement of concrete sidewalk / median	m2	150		
3	S.8.2	Reinstatement of paved sidewalk / median - brick paving	m2	150		
4	S.8.2	Reinstatement of asphalt sidewalk / median 25mm	m2	150		

TOTAL CARRIED TO SECTION 15 SUMMARY: Reinstatement

**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 15 Reinstatement**

PART S	REINSTATEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

**SUMMARY OF BILL OF QUANTITIES**

**Section**

1 Preliminaries		R	_____
AA PRELIMINARIES	R	_____	
2 General Specifications		R	_____
AB GENERAL SPECIFICATIONS	R	_____	
3 Occupational Health and Safety		R	_____
AH OCCUPATIONAL HEALTH and SAFETY	R	_____	
4 Site Clearance		R	_____
B SITE CLEARANCE	R	_____	
5 Concrete works		R	_____
C CONCRETE WORK	R	_____	
6 Earthworks:bulk		R	_____
DA EARTHWORKS : BULK	R	_____	
EB GRADED CRUSHED STONE	R	_____	
EC CEMENT TREATED GRADED CRUSHED STONE	R	_____	
EL DUMPROCK SUBGRADE IMPROVEMENT	R	_____	
7 Road Asphalt		R	_____
ED ROAD ASPHALT	R	_____	
8 Kerbs and Haunches		R	_____
EF KERBS AND HAUNCHES	R	_____	
9 Sidewalk, footpaths and Median Areas		R	_____
EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R	_____	
10 Guardrails		R	_____
EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS	R	_____	
11 Protection Works		R	_____
F PROTECTION WORKS	R	_____	
12 Manholes and Appurtenant Drainage Works		R	_____
PH MANHOLES and APPURTENANT DRAINAGE WORKS	R	_____	
13 Road Signs		R	_____
TA ROAD SIGNS	R	_____	
14 Road Marking		R	_____
TB ROAD MARKINGS	R	_____	
15 Reinstatement		R	_____
S REINSTATEMENT	R	_____	

Section

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SUB TOTAL

R \_\_\_\_\_

ADD VAT (15%) - (only if a registered VAT Vendor)

R \_\_\_\_\_

TOTAL CARRIED TO FORM OF TENDER

R \_\_\_\_\_

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