

C2.2 BILLS OF QUANTITIES

ITEM NO	PAYMENT	DESCRIPTION	UNIT	SCHED QTY	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 :				
		Facilities for Engineer				
1.1.2	PSAB 1.1	One name board	Sum	1.0		-
1.1.3	PSAB 2.1	Survey Equipment	Sum	1.0		-
		Facilities for Contractor				
1.1.4		Offices and storage sheds	Sum	1.0		-
1.1.5		Workshops	Sum	1.0		-
1.1.6	PS 8.2	Ablution and latrine facilities	Sum	1.0		-
1.1.7		Tools and equipment	Sum	1.0		-
1.1.8	PS 7	Water supplies, electric power and communications	Sum	1.0		-
1.1.9	PSA 4	Dealing with water (Sub clause 5.5)	Sum	1.0		-
1.1.10	PS 8.4 PSA 8	Access (Sub clause 5.8)	Sum	0.5		-
1.2		GENERAL				
		Geotechnical tests				
1.2.1		All additional commercial tests ordered by engineer	PC Sum	1.0	30 000	30 000
1.2.2		Percentage markup for to item 1.2.1	%	30 000		
1.2.3	8.3.4	Remove Contractor's Site establishment on completion	Sum	1.0		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
1.3	8.4 PSAB 4.2	TIME-RELATED ITEMS				
1.3.1	8.4.1	Contractual Requirements	Month	5.0		-
	8.4.2	Operate and maintain facilities on the Site:				
1.3.2		Survey assistants and material	Month	5.0		Rate Only
	8.4.2.2	b) Facilities for Contractor for duration of construction, except where otherwise stated				
1.3.3		Offices and storage sheds	Month	5.0		
1.3.4		Workshops	Month	5.0		
1.3.5		Ablution and latrine facilities	Month	5.0		
1.3.6		Tools and equipment	Month	5.0		
1.3.7		Water supplies, electric power and communications	Month	5.0		
1.3.10	8.4.3	Supervision	Month	5.0		
1.3.11	8.4.4	Company and head office overhead costs	Month	5.0		
1.3.12	PA	All work to ensure compliance with the provisions of the OSH Act 85 of 1993 and Regulations R1010 as published in Government Gazette on 18 July 2003. This item shall include all costs to provide a safety plan including the mentoring thereof, Auditing thereof and reporting to the Engineer, on a regular basis.	Month	5.0		
1.3.13		All work to ensure compliance with the provisions of the Environmental management plan and appointment of environmental control officer and monthly audit reports	Month	5.0		
1.3.14		Plant	Month	5.0		
1.3.15	8.4.5	Other fixed-charge obligations	Month	5.0		
1.2.4		Renumeration of CLO	PC Sum	1	32 500	32 500
1.2.5		Percentage markup for to item 1.2.4	%	32 500		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
1.4	8.7 PSA 6	DAYWORK				
1.4.1		Labor (Provisional)	PC Sum	1.0	1 000.00	10 000.00
1.4.2		Percentage adjustment to item 1.4.1 for labor	%	10 000		
1.4.3		Materials (Provisional)	PC Sum	1.0	1 000.00	10 000.00
1.4.4		Percentage adjustment to item 1.4.3 for materials	%	10 000		
1.4.5		Plant (Provisional)	PC Sum	1.0	1 000.00	10 000.00
1.4.6		Percentage adjustment to item 1.4.5 for plant	%	10 000		
TOTAL CARRIED FORWARD TO SUMMARY						-

BROUGHT FORWARD						-
	SABS 1200 A	ACCOMMODATION OF TRAFFIC				
1.5		Accommodation of traffic and maintaining temporary deviations				
1.5.1		During pretreatment or repair of road surface	km	1.0		
1.5.2		During resealing of road surface	km	1.0		
1.5.3		During surface milling	km	-		Rate Only
1.5.4		During re-gravelling	km	-		Rate Only
1.5.5		Accommodation of traffic where the road is constructed in half widths	km	1.0		
1.6		Traffic Control				
1.6.1		Delineators (TW401/1) 1000mm x 250mm plus sandbags: Single	Sum	1.0		
		Delineators (TW401/1) 1000mm x 250mm plus sandbags: Mounted back to bac	Sum			
1.6.3		Movable barricade/road sign combination	Sum			
1.6.4		Traffic cones (750mm)	Sum			
1.6.5		Two-way communication devices	Sum			
1.6.5		Relocation of traffic-control facilities.	Sum			
1.7		Gravelling and repair of temporary deviations And existing gravel shoulders used as temporary deviation.				
1.7.1		Temporary deviation.	km	-		Rate Only
1.7.2		Existing gravel shoulder.	km			
1.7.3		Watering of temporary deviation.	km	-		Rate Only
1.7.4		Existing gravel shoulder used as temporary deviation	km			
1.8		Blading by road grader of:				
1.8.1		Temporary deviation.	km			Rate Only
1.8.2		Existing gravel shoulder used as temporary deviation.	km			Rate Only
1.9		Signs				
1.9.1		Repair of temporary road signs and delineators.	No	22		
1.9.2		Replacement of damaged temporary road signs and delineators	No	22		
TOTAL CARRIED FORWARD TO SUMMARY						-

POTHOLE REPAIR, RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES - CHESTERTON STREET

TENDER No EDM/06/2023-24

CHESTERTON STREET (FROM JUDGE TO BOWNESS)

3	SABS 1200 DM	SECTION 2: ROADS				
3.1		EARTHWORKS Rip the existing surface to a depth of 300mm to the existing subbase. Import 150mm G7 material and compact to 95%-97% MOD subbase. Import and stabilize 150mm G5 with cement to C3 with cement ratio of 1.5% (97%-100% MOD) base. Apply Rubber Bitumen Binder Asphalt to the depth of 30mm as the surface layer.				
3.1.2	8.3.7	Cut to spoil in all material - roads	m³	130		-
	8.3.6	Extra over items 2.1.1 to 2.1.3 for excavation in				
3.1.3		Intermediate excavation	m³	-		Rate Only
3.1.4		Hard excavation	m³	-		Rate Only
3.1.4	8.3.12 PSDM 2	Overhaul (provisional)	m³km	480		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
3.5	SABS 1200 ME	SUBBASE				
3.5.1		Roll and compact existing subgrade layer material to 98% Mod AASHTO	m ²	375		Rate Only
	8.3.2	Construct subbase with material from commercial sources				
3.5.2	8.3.1 PSME 1	Import 150 mm G7 material subbase and compact to 95%-97% Mod. AASHTO max.	m ³	60		
3.6	SABS 1200 MF	BASE				
	8.3.3	Import from commercial source and construct 150mm G5 base, stabilize with cement to C3 and compact to 98%-100% Mod. AASHTO max. density	m ³	60		
		Process material by means of:				
		Stabilizing (extra-over item 8.3.3)	m ³	60		
		Stabilizing Agent:				
		Portland cement CEM II 32.5 A/L	t	2		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
3.7	SABS 1200 MH	ASPHALT SURFACING PRIME COAT				
	8.4.1	Prime coat using:				
3.7.1		MC30 Cut back bitumen	L	207		-
	8.4.2	Surface Treatment:				
3.7.2		30% Stable grade emulsion.	L	124.2		-
		ASPHALT SURFACING				
	8.4.3	30mm Thick medium continuously graded Asphalt surfacing using:				
3.7.3		a) 50/70 Bitumen Binder.	t	24.5		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
	SABS 1200 MK	CONCRETE KERBING AND CHANNELLING				
3.9		ANCILLARIES				
3.9.1		Existing concrete works. Neatly cut break and remove existing concrete for v-drains, channels, driveways etc. Prepare and compact ground, supply and cast concrete including shuttering and finishing of concrete to repair v-drains, channels, driveways etc. to:				
3.9.1.1		Concrete Class 25MPa up to 100mm thick	m ²		-	
3.9.1.2		Concrete Class 25MPa over 100mm up to 200mm thick	m ²		-	
3.9.2		Cleaning of storm water drains				
3.9.2.1		Clean all dirty existing storm water drains along the roads to be rehabilitated				
		Kerbing				
3.9.4		Remove maintain or dispose of existing precast concrete kerbs as required	m		-	
3.9.5		Return and reinstall existing precast concrete kerbing including mortar bedding, concrete haunching and concrete bedding complete	m		-	
3.9.6		Procure supply and install new precast concrete kerbing to match design specification including mortar bedding, concrete haunching and concrete bedding as detailed:				
		a. Fig 3 Kerbs	m		180	
		b. Fig 4 Kerbs	m		15	
		c. Fig 7 Kerbs	m		20	
		d. Fig 8C	m		20	
3.9.8		Insitu kerb repairs by repairing broken kerbs with mortar	m		-	
3.9.8		Edge Beams	m 3		4	
3.9.9		Transition kerbs	Prov Sum		1.0	
TOTAL CARRIED FORWARD						

BROUGHT FORWARD						-
3.10	8.3.1	PERMANENT TRAFFIC SIGNS Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from				
3.10.1	8.3.7	Statutory signs, street names, and the like, supplied and erected complete	No		3.0	-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
3.11	8.4.1	ROAD MARKINGS				
		Non-reflectorized paint applied at nominal rate of 0, 42 l/m2 (or proprietary brand road marking material) in either white, red or yellow colours.				
		a) Broken Lines				
3.11.1		100mm Wide	m	80		Rate Only
3.11.2		150mm Wide	m			
3.11.3		200mm Wide	m			Rate Only
		b) Unbroken lines				
3.11.5		100mm Wide	m	75	-	Rate Only
3.11.6		150mm Wide	m			
3.11.7		200mm Wide	m			
3.11.8		300mm Wide	m			
3.11.9		c) Characters and symbols	m²	15		
3.11.10		e)Traffic island markings (any colour)	m²	-	-	Rate Only
3.11.12		a) White paint	l	-		Rate Only
3.11.13		b) Yellow paint	l	-		Rate Only
3.11.14		c) Red paint	l	-		Rate Only
		8.4.3	Setting out and premarking of lines (excluding traffic island markings, characters, and symbols)			
3.11.15		Setting out lines.	m	160		
3.11.16		Setting out Islands, Characters and Symbols.	No	-		
TOTAL CARRIED FORWARD						

BROUGHT FORWARD	-
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SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
3	ROADS	-
	SUB-TOTAL	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

POTHOLE REPAIR , RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES - GENERAL STREET
TENDER No EDM/06/2023-24GENERAL STREET (BOWNESS AND DE KOK STREET)

	SABS 1200 DM	SECTION 3 : ROADS				
4.1	1200 C+D	SITE CLEARANCE				
4.1.1		Remove >250mm up to 600mm diameter outgrowing tree roots from site (including excavation of roots and backfilling and compaction of hole in layers of 150mm to 95% mod. (ASSHTO).	No	6		-
4.1.2		Cut and remove tree stumps on road reserves	No	2		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
4.2		EARTHWORKS Rip the existing surface to a depth of 150mm to the existing base. Import and stabilize 150mm G5 with cement to C3 with cement ratio of 1.5% (97%-100% MOD) base. Apply Rubber Bitumen Binder Asphalt to the depth of 30mm as the surface layer. Compact the subbase layer to 98% Mod AASHTO.				
4.2.2	8.3.7	Cut to spoil in all materials - roads	m³	450		-
	8.3.6	Extra over items 2.2.1 to 2.2.3 for excavation in				
4.2.3		Intermediate excavation	m³			Rate Only
4.2.4		Hard excavation	m³			Rate Only
4.2.5	8.3.12 PSDM 2	Overhaul (provisional)	m³km	480		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
4.3	SABS 1200 MF	BASE				
4.3.1		Roll and compact existing subbase layer material to 98% Mod AASHTO	m²	2478		Rate Only
	8.3.3	Import from commercial source and construct 150mm G5 base, stabilize with cement to C3 and compact to 98%-100% Mod. AASHTO max. density	m³	390		
4.3.2	PSMF 1.1	Process material by means of: Stabilizing (extra-over item 8.3.3) Stabilizing Agent: Portland cement CEM II 32.5 A/L	m³	390		Rate Only
			t	13		
4.3.3	PSMF 1.1	extra over - 150mm G5 material	m3			Rate Only
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
4.4	SABS 1200 MH	ASPHALT SURFACING PRIME COAT				
	8.4.1	Prime coat using:				
4.4.1		MC30 Cut back bitumen	L	2478		-
	8.4.2	Surface Treatment:				
4.4.2		30% Stable grade emulsion.	L	1486		-
	8.4.3	ASPHALT SURFACING 30mm Thick medium continuously graded Asphalt surfacing using:				
4.4.3		a) 50/70 Bitumen Binder.	t	168		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
	SABS 1200 MK	CONCRETE KERBING AND CHANNELLING				
4.6		ANCILLARIES				
4.6.1		Existing concrete works. Neatly cut break and remove existing concrete for v-drains, channels, driveways etc. Prepare and compact ground, supply and cast concrete including shuttering and finishing of concrete to repair v-drains, channels, driveways etc to:				
4.6.1.1		Concrete Class 25MPa up to 100mm thick	m ²			
4.6.1.2		Concrete Class 25MPa over 100mm up to 200mm thick	m ²			
4.6.2		Cleaning of storm water drains				
4.6.2.1		Clean all dirty existing storm water drains along the roads to be rehabilitated				
4.6.4		KERBING Remove maintain or dispose of existing precast concrete kerbs as required	m	195		
4.6.5		Return and reinstall existing precast concrete kerbing including mortar bedding, concrete haunching and concrete bedding complete	m	-		
4.6.6		Procure supply and install new precast concrete kerbing to match existing including mortar bedding, concrete haunching and concrete bedding as detailed:	m	195		
		a. Fig 3 Kerbs	m	195		
		b. Fig 4 Kerbs	m	40		
		c. Fig 7 Kerbs	m	25		
		d. Fig 8C Kerbs	m	60		
4.6.7		Insitu kerb repairs by repairing broken kerbs with mortar	m	-		
4.6.8		Edge Beams	m	30		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
4.7	8.3.1	PERMANENT TRAFFIC SIGNS Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from:				
4.7.1	8.3.7	Statutory signs, street names, and the like, supplied and erected complete	No	5		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
4.8	8.4.1	ROAD MARKINGS				
		Non-reflectorized paint applied at nominal rate of 0, 42 l/m2 (or proprietary brand road marking material) in either white, red or yellow colours.				
		a) Broken Lines				
4.8.1		100mm Wide	m	190	-	Rate Only
4.8.2		150mm Wide	m			
4.8.3		200mm Wide	m			Rate Only
		b) Unbroken lines				
4.8.4		100mm Wide	m	177	-	Rate Only
4.8.5		150mm Wide	m			
4.8.6		200mm Wide	m			
4.8.7		300mm Wide	m			
4.8.8		c) Characters and symbols	m²			
4.8.9		e)Traffic island markings (any colour)	m²	-	-	Rate Only
4.8.10		a) White paint	I	-		Rate Only
4.8.11		b) Yellow paint	I	-		Rate Only
4.8.12		c) Red paint	I	-		Rate Only
	8.4.3	Setting out and premarking of lines (excluding traffic island markings, characters, and symbols)				
4.8.13		Setting out lines.	m	380		
4.8.14		Setting out Islands, Characters and Symbols.	No	-		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
4.9	SABS 1200 LE	STORMWATER DRAINAGE				
4.9.1	PSC 4 8.3.1(a)	Clear and grub pipe trenches to 2m over trench widths outside road reserves.	m	-		Rate Only
4.9.2	1200 DB 8.3.2(a)	Opening and Cleaning of Existing catch pits and manholes	No	5		-
BALANCE CARRIED FOWARD						-

BROUGHT FORWARD	-
TOTAL CARRIED FORWARD TO SUMMARY	-

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
4	ROADS	-
4.9	STORMWATER	-
	SUB-TOTAL	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

POTHOLE REPAIR , RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES – PILGRI
PRESIDENT STREET INTERSECTION
TENDER No EDM/06/2023-24

PILGRIM STREET AND PRESIDENT STREET (INTERSECTION)

SECTION 4 : ROADS						
EARTHWORKS						
5.1		Rip the existing surface to a depth of 150mm to the existing base. Import and stabilize 150mm G5 with cement to C3 with cement ratio of 1.5% (97%-100% MOD) base. Apply Rubber Bitumen Binder Asphalt to the depth of 30mm as the surface layer. Compact subbase layer to 98% Mod AASHTO.				
5.1.2	8.3.7	Cut to spoil in all materials – roads	m ³	120		-
	8.3.6	Extra over items 4.1.1 to 4.1.2 for excavation in				
5.1.3		Intermediate excavation	m ³			Rate Only
5.1.4		Hard excavation	m ³			Rate Only
5.1.5	8.3.12 PSDM 2	Overhaul (provisional)	m ³ km	480		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
5.2	SABS 1200 ME	BASE				
5.2.1		Roll and compact existing subbase layer material to 98% Mod AASHTO	m ²	560		Rate Only
	8.3.2	Construct base with material from commercial sources				-
5.2.2		Import from commercial source and construct 150mm G5 base, stabilize with cement to C3 and compact to 98%-100% Mod. AASHTO max. density	m3	90		
5.2.3	PSMF 1.1	Process material by means of: Stabilizing (extra-over item 8.3.3) Stabilizing Agent: Portland cement CEM II 32.5 A/L	m3	90		Rate Only
			t	3.5		
5.2.4	PSMF 1.1	extra over - 150mm G5 material	m3			Rate Only
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
5.3	SABS 1200 MH	ASPHALT SURFACING PRIME COAT				
	8.4.1	Prime coat using:				
5.3.1		MC30 Cut back bitumen	L	560		-
	8.4.2	Surface Treatment:				
5.3.2		30% Stable grade emulsion.	L	336		Rate Only
		ASPHALT SURFACING				Rate Only
	8.4.3	30mm Thick medium continuously graded Asphalt surfacing using:				Rate Only
5.3.3		a) 50/70 Bitumen Binder.	t	40.32		Rate Only
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
5.5	SABS 1200 MK	CONCRETE KERBING AND CHANNELLING				
		ANCILLARIES				
5.5.1		Existing concrete works. Neatly cut break and remove existing concrete for v-drains, channels, driveways etc. Prepare and compact ground, supply and cast concrete including shuttering and finishing of concrete to repair v-drains, channels, driveways etc. to:				
5.5.1.1		Concrete Class 25MPa up to 100mm thick	m ²			
5.5.1.2		Concrete Class 25MPa over 100mm up to 200mm thick	m ²			
5.5.2		Cleaning of storm water drains				
5.5.2.1		Clean all dirty existing storm water drains along the roads to be rehabilitated				
		Kerbing				
5.5.4		Remove maintain or dispose of existing precast concrete kerbs as required	m	110		
5.5.5		Return and reinstall existing precast concrete kerbing including mortar bedding, concrete haunching and concrete bedding complete	m	-		
5.5.6		Procure supply and install new precast concrete kerbing to match existing including mortar bedding, concrete haunching and concrete bedding as detailed	m	110		
5.5.7		Insitu kerb repairs by repairing broken kerbs with mortar	m	-		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
5.6		BRICK PAVING AT SIDEWALKS AND INTERSECTIONS Remove and discard 80mm block paving and bedding sand.				
5.6.1		Supply, lay on 25mm sand, 80mm grey 40MPa paving bricks, roll to lock-up condition - interlocking bricks	m ²	-	-	-
5.6.2		Rib and compact 150mm thick layer of the existing material to 95% Mod ASSHTO	m ²	-	-	-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
5.7	8.3.1	PERMANENT TRAFFIC SIGNS Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from				
5.7.1	8.3.7	Statutory signs, street names, and the like, supplied and erected complete.	No	-		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
5.8	8.4.1	ROAD MARKINGS				
		Non-reflectorized paint applied at nominal rate of 0, 42 l/m2 (or proprietary brand road marking material) in either white, red or yellow colours.				
		a) Broken Lines	m	80		Rate Only
5.8.1		100mm Wide	m			Rate Only
5.8.2		150mm Wide	m			
5.8.3		200mm Wide				
		b) Unbroken lines	m	80	-	Rate Only
5.8.4		100mm Wide	m			
5.8.5		150mm Wide	m			
5.8.6		200mm Wide				
5.8.7		300mm Wide	m²			
5.8.8		c) Characters and symbols	m²		-	Rate Only
5.8.9		e)Traffic island markings (any colour)				
		8.4.2	Variation in rate of application from that stated for item 2.11 to 2.11.10			
5.8.10	a)White paint	I			Rate Only	
5.8.11	b)Yellow paint	I			Rate Only	
5.8.12	c)Red paint	I			Rate Only	
	8.4.3	Setting out and pre-marking of lines (excluding traffic island markings, characters, and symbols)				
5.8.13	Setting out lines.	m	160			
5.8.14	Setting out Islands, Characters and Symbols.	No				
TOTAL CARRIED FORWARD						

BROUGHT FORWARD						-
5.9.1	SABS 1200 LE PSC 4 8.3.1(a)	SECTION 3 : STORMWATER DRAINAGE Clear and grub pipe trenches to 2m over trench widths outside road reserves	m	-		Rate Only
5.9.2	1200 DB 8.3.2(a)	Opening and Cleaning of Existing catch pits and manholes	Sum	-		-
5.9.3		Fix replace damaged concrete blocks on existing catch pits/kerb inlets	Sum	-		-
TOTAL CARRIED SUMMARY						-

BROUGHT FORWARD	-
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SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
5	ROADS	-
5.9	STORMWATER	-
	SUB-TOTAL	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

POTHOLE REPAIR, RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES - PILGRIM STREET
TENDER No EDM/06/2023-24

PILGRIM STREET- ROADSIDE PARKINGS (FROM GENERAL TO ROAD 1 (UNNAMED))

6	SABS 1200 DM	SECTION 5: ROADS				
		EARTHWORKS				
6.1		Side road parking on both sides of the road: Remove the existing surface to a depth of 150mm to the existing base. Compact the existing subbase layer to 98% Mod AASHTO. Import and stabilize 150mm G5 with cement to C3 with cement ratio of 1.5% (97%-100% MOD) base. Apply Rubber Bitumen Binder Asphalt to the depth of 30mm as the surface layer.				
6.1.2	8.3.7	Cut to spoil 150mm of base material - roads	m3	395		-
	8.3.6	Extra over items 5.1.1 to 5.1.3 for excavation in				
6.1.3		Intermediate excavation	m3			Rate Only
6.1.4		Hard excavation	m3			Rate Only
6.1.5	8.3.12 PSDM 2	Overhaul (provisional)	m3km	480		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
6.2	SABS 1200 ME	BASE				
6.2.1		Roll and compact existing subbase layer material to 98% Mod AASHTO	m3	2191		Rate Only
	8.3.2	Construct base with G5 material from commercial sources				
6.2.2		Import from commercial source and construct 150mm G5 base, stabilize with cement to C3 and compact to 98%-100% Mod. AASHTO max. density	m3	395		
6.2.3	PSMF 1.1	Process material by means of: Stabilizing (extra-over item 5.2.2) Stabilizing Agent: Portland cement CEM II 32.5 A/L	m3	395		Rate Only
			t	14		
6.2.4	PSMF 1.1	extra over - 150mm G5 material	m3	-		Rate Only
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
6.3	SABS 1200 MH	ASPHALT SURFACING PRIME COAT				
	8.4.1	Prime coat using:				
6.3.1		MC30 Cut back bitumen	L	2191		-
	8.4.2	Surface Treatment:				
6.3.2		30% Stable grade emulsion.	L	1314		Rate Only
		ASPHALT SURFACING				Rate Only
	8.4.3	30mm Thick medium continuously graded Asphalt surfacing using:				Rate Only
6.3.3		a) Rubber Binder Bitumen.	t	144		Rate Only
						-
TOTAL CARRIED FORWARD						

BROUGHT FORWARD						-
6	SABS 1200 MK	CONCRETE KERBING AND CHANNELLING				
6.5		ANCILLARIES				
6.5.1		Existing concrete works. Neatly cut break and remove existing concrete for v-drains, channels, driveways etc. Prepare and compact ground, supply and cast concrete including shuttering and finishing of concrete to repair v-drains, channels, driveways etc. to:				
6.5.1.1		Concrete Class 25MPa up to 100mm thick	m²			
6.5.1.2		Concrete Class 25MPa over 100mm up to 200mm thick	m²			
6.5.2		Cleaning of storm water drains				
6.5.2.1		Clean all dirty existing storm water drains along the roads to be rehabilitated				
		KERBING				
6.5.4		Remove maintain or dispose of existing precast concrete kerbs as required	m		350	
6.5.5		Return and reinstall existing precast concrete kerbing including mortar bedding, concrete haunching and concrete bedding complete	m		-	
6.5.6		Procure supply and install new precast concrete kerbing to match design specification including mortar bedding, concrete haunching and concrete bedding as detailed:	m		350	
		a. Fig 3 Kerb	m		350	
		b. Fig 4 Kerb	m		35	
		c. Fig 7 Kerb	m		30	
		d. Fig 8C Kerb	m		50	
6.5.7		Edge Beams	m		60	
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
6.6		BRICK PAVING AT SIDEWALKS AND INTERSECTIONS				
6.1.1		Remove and discard damaged existing 80mm block paving and bedding sand.	m ²		626	
6.6.2		Supply, lay on 25mm sand, 80mm grey 40MPa paving bricks, roll to lock-up condition - interlocking bricks	m ²		626	
6.6.3		Rib and compact 150mm thick layer of existing material to 95% Mod AASHTO.	m ²		626	
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
6.7	8.3.1	PERMANENT TRAFFIC SIGNS Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from				
6.7.1	8.3.7	Statutory signs, street names, and the like, supplied and erected complete	No	6.0		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
6.8	8.4.1	ROAD MARKINGS				
		Non-reflectorized paint applied at nominal rate of 0, 42 l/m2 (or proprietary brand road marking material) in either white, red or yellow colours.				
		a) Broken Lines				
6.8.1		100mm Wide	m	350		Rate Only
6.8.2		150mm Wide	m			
6.8.3		200mm Wide	m			Rate Only
		b) Unbroken lines				
6.8.4		100mm Wide	m	350	-	Rate Only
6.8.5		150mm Wide	m			
6.8.6		200mm Wide	m			
6.8.7		300mm Wide	m			
6.8.8		c) Characters and symbols	m²			
6.8.9		e)Traffic island markings (any colour)	m²		-	Rate Only
		8.4.2	Variation in rate of application from that stated for item 2.11 to 2.11.10			
6.8.10		a) White paint	I	-		Rate Only
6.8.11	b) Yellow paint	I	-		Rate Only	
6.8.12	c) Red paint	I	-		Rate Only	
	8.4.3	Setting out and premarking of lines (excluding traffic island markings, characters, and symbols)				
6.8.13		Setting out lines.	m	350		
6.8.14		Setting out Islands, Characters and Symbols.	No	-		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						
6.9	SABS 1200 LE	SECTION 5.9 : STORMWATER DRAINAGE				
6.9.1	PSC 4 8.3.1(a)	Clear and grub pipe trenches to 2m over trench widths outside road reserves.	m	-		Rate Only
6.9.2	1200 DB 8.3.2(a)	Open and Clean Existing catch pits and manholes	Sum	5		-
6.9.2		Repair and replace damaged catch-pits and manholes	Sum	5		
TOTAL CARRIED FOWARD TO SUMMARY						-

TOTAL BROUGHT FOWARD TO SUMMARY	-
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SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
6	ROADS	-
6.9	STORMWATER	-
	Sub-total	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

POTHOLE REPAIR , RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES - ROAD 1 (UNAMED)

TENDER No EDM/06/2023-24

ROAD 1(UNNAMED) – (FROM JUDGE TO PILGRIM STREET)

7	SABS 1200 DM	SECTION 5: ROADS				
		EARTHWORKS				
7.1		Entire road and side road parking on one side of the road: Rip the existing surface to a depth of 150mm to the existing base. Compact the existing subbase material to 98% Mod AASHTO. Import and stabilize 150mm G5 with cement to C3 with cement ratio of 1.5% (97%-100% MOD) base. Apply Rubber Bitumen Binder Asphalt to the depth of 30mm as the surface layer.				
7.1.2	8.3.7	Cut to spoil in all materials – roads	m3	95		
	8.3.6	Extra over items 2.4.2 to 2.4.3 for excavation in				
7.1.4		Intermediate excavation	m3			Rate Only
7.1.5		Hard excavation	m3			Rate Only
7.1.6	8.3.12 PSDM 2	Overhaul (provisional)	m3km	480.0		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
7.2	SABS 1200 ME	BASE				
7.2.1	8.3.2	Roll and compact existing subbase layer material to 98% Mod AASHTO	m2	480		Rate Only
7.2.1	8.3.1 PSME 1	Construct base with material from commercial sources				
7.2.1	8.3.1 PSME 1	Import from commercial source and construct 150mm G5 base, stabilize with cement to C3 and compact to 98%-100% Mod. AASHTO max. Density	m3	75		
7.2.2		Import 150 mm G5 base and compact to 97% -100% Mod. AASHTO max. density (C3 after stabilization)				-
7.2.2		Process material by means of:				-
7.2.2		Stabilizing (extra-over items 8.3.1)	m3	75		-
7.2.2		Stabilizing agent				
7.2.2		Portland cement CEM II 32.5 A/L	t	3		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
7	SABS 1200 MH	ASPHALT SURFACING PRIME COAT				
	8.4.1	Prime coat using:				
7.3.1		MC30 Cut back bitumen	L	480		-
	8.4.2	Surface Treatment:				
7.3.2		30% Stable grade emulsion.	L	288		Rate Only
		ASPHALT SURFACING				Rate Only
	8.4.3	30mm Thick medium continuously graded Asphalt surfacing using:				Rate Only
7.3.3		a) 50/70 Bitumen Binder.	t	34		Rate Only
TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-

7	SABS 1200 MK	CONCRETE KERBING AND CHANNELLING				
7.5		ANCILLARIES				
7.5.1		Existing concrete works. Neatly cut break and remove existing concrete for v-drains, channels, driveways etc. Prepare and compact ground, supply and cast concrete including shuttering and finishing of concrete to repair v-drains, channels, driveways etc. to:				
7.5.2.1		Concrete Class 25MPa up to 100mm thick	m²			
7.5.2.2		Concrete Class 25MPa over 100mm up to 200mm thick	m²			
		KERBING				
7.5.4		Remove and discard the existing precast concrete kerbs as required	m	60		
7.5.5		Return and reinstall existing precast concrete kerbing including mortar bedding, concrete haunching and concrete bedding complete	m	-		
7.5.6		Procure supply and install new precast concrete kerbing to match design specification including mortar bedding, concrete haunching and concrete bedding as detailed	m	60		
TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-

7.6		BRICK PAVING AT SIDEWALKS AND INTERSECTIONS				
7.6.1		Remove and discard existing 80mm block paving and bedding sand	m ²		210	
7.6.2		Rib and compact 150mm thick layer of existing material to 95% Mod AASHTO.	m ²		210	
7.6.3		Supply, lay on 25mm sand, 80mm grey 40MPa paving bricks, roll to lock-up condition - interlocking bricks	m ²		210	Rate Only
TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-

7.7		PERMANENT TRAFFIC SIGNS				
	8.3.1	Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from				
7.7.1	8.3.7	Statutory signs, street names, and the like, supplied and erected complete	No		2	
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
7.8		ROAD MARKINGS				
	8.4.1	Non-reflectorized paint applied at nominal rate of 0, 42 l/m2 (or proprietary brand road marking material) in either white, red or yellow colours.				
		a) Broken Lines				
7.8.1		100mm Wide	m	115		Rate Only
7.8.2		150mm Wide	m			
7.8.3		200mm Wide	m			Rate Only
		b) Unbroken lines				
7.8.4		100mm Wide	m	80	-	Rate Only
7.8.5		150mm Wide	m			
7.8.6		200mm Wide	m			
7.8.7		300mm Wide	m			
7.8.8		c) Characters and symbols	m ²			
7.8.9		e)Traffic island markings (any colour)	m ²		-	Rate Only
	8.4.2	Variation in rate of application from that stated for item 2.11 to 2.11.10				
7.8.10		a) White paint	I	-		Rate Only
7.8.11		b) Yellow paint	I	-		Rate Only
7.8.12		c) Red paint	I	-		Rate Only
	8.4.3	Setting out and premarking of lines (excluding traffic island markings, characters, and symbols)				
7.8.13		Setting out lines.	m	180		
7.8.14		Setting out Islands, Characters and Symbols.	No	-		
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
7.9	SABS 1200 LE	SECTION 5.9 : STORMWATER DRAINAGE				
7.9.1	PSC 4 8.3.1(a)	Clear and grub pipe trenches to 2m over trench widths outside road reserves.	m			Rate Only
	1200 DB 8.3.2(a)	Opening and Cleaning of Existing catch pits and manholes	Sum	4		-
7.9.2		Repair and replace damaged catch-pits and manholes		3		
TOTAL CARRIED SUMMARY						-

BROUGHT FORWARD	-
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SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
7	ROADS	-
7.9	STORMWATER	-
	SUB-TOTAL	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

POTHOLE REPAIR , RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES - WHITE STREET
TENDER No EDM/06/2023-24

WHITE STREET (FROM JUDGE TO BOWNESS)

8	SABS 1200 DM	SECTION 7 : ROADS				
		EARTHWORKS				
8.1		Entire road and side road parking on one side of the road: Rip the existing surface to a depth of 150mm to the existing base. Import and stabilize 150mm G5 with cement to C3 with cement ratio of 1.5% (97%-100% MOD) base. Apply Rubber Bitumen Binder Asphalt to the depth of 30mm as the surface layer.				
8.1.2	8.3.7	Cut to spoil in all materials	m3	170		Rate Only
	8.3.6	Extra over items 7.1.1 to 7.1.2 for excavation in				
8.1.3		Intermediate excavation	m3			Rate Only
8.1.4		Hard excavation	m3			Rate Only
8.1.5	8.3.12 PSDM 2	Overhaul (provisional)	m3km	480		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
8.2	SABS 1200 ME	BASE				
8.2.1		Roll and compact existing subbase layer material to 98% Mod AASHTO.	m2	936		Rate Only
	8.3.2	Construct subbase with material from commercial sources				
8.2.1	8.3.1 PSME 1	Import from commercial source and construct 150mm G5 base, stabilize with cement to C3 and compact to 98%-100% Mod. AASHTO max. density	m3	170		-
8.2.2		Process material by means of:				
		Stabilizing (extra-over items 8.3.1)	m3	170		-
		Stabilizing agent				
		Portland cement CEM II 32.5 A/L	t	6		-
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
8.3	SABS 1200 MH	ASPHALT SURFACING PRIME COAT				
	8.4.1	Prime coat using:				
8.3.1		MC30 Cut back bitumen	L	936		-
	8.4.2	Surface Treatment:				
8.3.2		30% Stable grade emulsion.	L	561		Rate Only
		ASPHALT SURFACING				Rate Only
	8.4.3	30mm Thick medium continuously graded Asphalt surfacing using:				Rate Only
8.3.3		a) 50/70 Bitumen Binder.	t	65		Rate Only

TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-
8.5	SABS 1200 MK	CONCRETE KERBING AND CHANNELLING				
8.5		ANCILLARIES				
8.5.1		Existing concrete works. Neatly cut break and remove existing concrete for v-drains, channels, driveways etc. Prepare and compact ground, supply and cast concrete including shuttering and finishing of concrete to repair v-drains, channels, driveways etc. to:				
8.5.2.1		Concrete Class 25MPa up to 100mm thick	m ²		50	
8.5.2.2		Concrete Class 25MPa over 100mm up to 200mm thick	m ²			
		KERBING				
8.5.3		Remove maintain or dispose of existing precast concrete kerbs as required	m		85	
8.5.4		Return and reinstall existing precast concrete kerbing including mortar bedding, concrete haunching and concrete bedding complete	m		-	
8.5.5		Procure supply and install new precast concrete kerbing to match design specification including mortar bedding, concrete haunching and concrete bedding as detailed:	m		85	
		a. Fig 3 Kerb	m		85	
		b. Fig 4 Kerb	m		40	
		c. Fig 7 Kerb	m		40	
		d. Fig 8C Kerb	m		20	
8.5.6		Edge Beams	m		15	

TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-
8.6		PERMANENT TRAFFIC SIGNS				
	8.3.1	Sign faces with painted or galvanized (as stated) background. Symbols, characters, legend, and borders in engineering grade retroreflective material with signboards constructed from				
8.6.1	8.3.7	Statutory signs, street names, and the like, supplied and erected complete	No		3.0	-

TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-
8.8		ROAD MARKINGS				
	8.4.1	Non-reflectORIZED paint applied at nominal rate of 0, 42 l/m ² (or proprietary brand road marking material) in either white, red or yellow colours.				
		a) Broken Lines				
8.8.1		100mm Wide	m	95		Rate Only
8.8.2		150mm Wide	m			
8.8.3		200mm Wide	m			Rate Only
		b) Unbroken lines				
8.8.4		100mm Wide	m	75	-	Rate Only
8.8.5		150mm Wide	m			
8.8.6		200mm Wide	m			
8.8.7		300mm Wide	m			
8.8.8		c) Characters and symbols	m ²			
8.8.9		e)Traffic island markings (any colour)	m ²		-	Rate Only
	8.4.2	Variation in rate of application from that stated for item 2.11 to 2.11.10				
8.8.10		a) White paint	I	-		Rate Only
8.8.11		b) Yellow paint	I	-		Rate Only
8.8.12		c) Red paint	I	-		Rate Only
	8.4.3	Setting out and pre-marking of lines (excluding traffic island markings, characters, and symbols)				
8.8.13		Setting out lines.	m	250		
8.8.14		Setting out Islands, Characters and Symbols.	No	-		

TOTAL CARRIED FORWARD						-
BROUGHT FORWARD						-
8.9	SABS 1200 LE	STORMWATER DRAINAGE				
8.9.1	PSC 4 8.3.1(a)	Clear and grub pipe trenches to 2m over trench widths outside road reserves.	m			Rate Only
	1200 DB 8.3.2(a)	Opening and Cleaning of Existing catch pits and manholes	Sum	-		-

TOTAL CARRIED SUMMARY	-
BROUGHT FORWARD	-

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
8	ROADS	-
8.9	STORMWATER	-
	SUB-TOTAL	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

POTHOLE REPAIR , RESEALING AND GENERAL MAINTENANCE ON BARBERTON TOURISM ROUTES - PRESIDENT STREET
TENDER No EDM/06/2023-24

PRESIDENT STREET (POTHOLE REPAIRS) –(PILGRIM TO JUDGE STREET)

9		SECTION 9: POTHOLE REPAIR				
	SABS 1200 DM 8.3.7	Repair potholes complete by identifying, marking potholes, cutting a rectangular hole in surface around the pothole, excavate to required depth in all material and dispose of unsuitable materials, re-compact sub-base. Cut back the asphalt around the pothole to create a stable edge. If the pothole is deeper than 50mm of the asphalt layer, fill the pothole by importing from commercial sources				
	SABS 1200 MF 8.3.3 8.3.5 8.3.8	place, stabilize with cement and compacting G5 type material to 98% Mod AASTHO. Fill the hole with hot-mix asphalt to a depth of up to 30mm or more. Apply a sticky tack coat and overlay with HMA. The material should be approx. 10 to 15 mm proud of the surrounding area. Use a pedestrian roller, rammer or hand stamper to compact the asphalt down to the level of the surrounding road. Supply and apply approved prime and tack coat to base and sides and supply place and compact up to 30mm thick medium continuously graded asphalt surfacing. (LI)				
	SABS 1200 MH 8.5.1 8.5.3	Seal the edges where the patch meets the old asphalt				
9.1	SABS 1200 DM	REPAIR OF POTHOLES Pothole repair using 30mm hot mix continuously graded asphalt	m ²	395		
		REPAIR OF POTHOLES Repair of edge breaks using hot mix continuously graded asphalt	m	70		
9.1.2		REPAIR OF POTHOLES Repair of surface failures hot mix continuously graded asphalt	m ²	250		
9.1.3		TEMPORARY REPAIR Temporary repair of potholes, edge breaks and surface failures using cold mix asphalt surfacing from the following sources: (a) Commercial sources (i) Pothole repair (<0.5m ²)	No	15		
9.2		PATCHING AND REPAIRING ROAD AREAS OVER 10m² Saw cutting longitudinal section Bituminous surface to an average depth:				
9.2.1		Not exceeding 50mm. (LI)		13		
9.2.2		Exceeding 100mm but not exceeding 200mm deep. (LI)		6		
9.2.3						
TOTAL CARRIED FORWARD						-

BROUGHT FORWARD						-
9.3	SABS1200 LE	STORMWATER DRAINAGE				
9.3.1	PSC 4 8.3.1(a)	Clear and grub pipe trenches to 2m over trench widths outside road reserves.	m			Rate Only
	1200 DB 8.3.2(a)	Opening and Cleaning of Existing catch pits and manholes	Sum	3.0		-
BALANCE CARRIED FORWARD SUMMARY						

BROUGHT FORWARD	-
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SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT
9	ROADS	-
9.3	STORMWATER	-
	SUB-TOTAL	-
	TOTAL CARRIED FORWARD TO SUMMARY OF SCHEDULE	-

SUMMARY OF SCHEDULE

SECTION	DESCRIPTION / STREET NAME / SCOPE OF WORKS		FROM BOQ
1	PRELIMINARY & GENERAL		R
3	CHESTERTON STREET	RECONSTRUCTION	R
4	GENERAL STREET	RECONSTRUCTION	R
5	PILGRIM & PRESIDENT (INTERSECTION)	RECONSTRUCTION	R
6	PILGRIM STREET(PARKING)	RECONSTRUCTION	R
7	ROAD 1(UNNAMED)	RECONSTRUCTION	R
8	WHITE STREET	RECONSTRUCTION	R
9	PRESIDENT STREET	POTHOLEN REPAIRS	R
A	NET TOTAL OF TENDER		R
B	ADD CONTINGENCIES 10.0% OF NETT TOTAL		R
C	AMOUNT		R
D	ALLOWANCE FOR VAT AT 15.0%		R
E	TOTAL TENDER SUM		R

Carry all total forward to Form of Offer and Acceptance