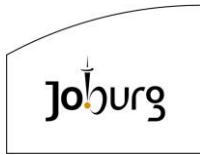


REQUEST FOR INFORMATION

RFI NUMBER:	RFI JW 22/07/2026	CLOSING DATE:	29 July 2026 @ 13:00 PM
DESCRIPTION:	Emergency Repair and Replacement of Sewer and Water Infrastructure		
ISSUE DATE	22 July 2026		
Submit via Email to:	maria.chirrindze@jwater.co.za or upload on the Etender Portal		

ENQUIRIES MAY BE DIRECTED TO:			
Bidding procedure enquiries <u>must</u> be sent to		Technical enquiries must be directed to	
CONTACT PERSON	Maria Chirrindze	CONTACT PERSON	Nosipho Mokoena
TELEPHONE NUMBER	011 688 6610	TELEPHONE NUMBER	011 688 1585
E-MAIL ADDRESS	maria.chirrindze@jwater.co.za	E-MAIL ADDRESS	nosipho.mokoena@jwater.co.za

SUPPLIER INFORMATION			
NAME OF BIDDER			
STREET ADDRESS			
TELEPHONE NUMBER	CODE		NUMBER
CELLPHONE NUMBER			
E-MAIL ADDRESS			
VAT REGISTRATION NUMBER			
CENTRAL SUPPLIER DATABASE No:	MAAA		
MANUFACUTER OR THIRD PARTY(If Applicable)			



EMERGENCY REPAIR AND REPLACEMENT OF SEWER AND WATER INFRASTRUCTURE



1. PURPOSE OF THE REQUEST FOR INFORMATION

To assist the organisation with business decision making purposes for an upcoming 36-month Request for Tender with regards to budget, cost effectiveness, risk assessment, specific goals to include in the tender, award and allocation strategy to incorporate, non-firm prices, pricing schedule and special conditions of tender.

2. BACKGROUND

Johannesburg Water invites service providers to respond to a Request for Information for **Emergency Repair and Replacement of Sewer and Water Infrastructure**. This RFI is strictly to solicit market related information from potential bidder(s) Emergency Repair and Replacement of Sewer and Water Infrastructure. This RFI does not constitute; an offer; or any impression none so ever to do business with Johannesburg Water.

3. SCOPE OF WORK AND SPECIFICATIONS

The scope of works consists of emergency repairs, replacements, reconstruction of existing water and sewer networks throughout the City of Johannesburg. This will include but is not limited to the following areas: Soweto, Roodepoort, Midrand, Randburg, Sandton, Alexandra, JHB CBD, Orange Farm etc.

PRICING

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE
1	SABS 1200 A	SECTION 1: GENERAL			
1,1		Time Related Item			
1,2	8,7	DAYWORKS (as instructed by the Engineer) Note: to be executed on instruction of the Engineer only			
1.2.1		Materials Materials used in the execution of dayworks Overheads, charges and profit on item above	Prov. Sum %	1 1	
1.2.2		Labour			
1.2.2.1		Foreman	hr	1	
1.2.2.2		Skilled	hr	1	
1.2.2.3		Semi-skilled	hr	1	
1.2.2.4		General Labour	hr	1	
1.2.3		Plant and Equipment			
1.2.3.1		Crawler excavator (70 - 80 kW)	hr	1	
1.2.3.2		Backhoe loader (50 - 60 kW)	hr	1	
1.2.3.3		Walk-behind vibrating roller	hr	1	
1.2.3.4		Compressor (175 cfm), including hoses and breakers	hr	1	
1.2.3.5		Concrete Mixer (150 - 250 litre)	hr	1	
1.2.3.6		Tipper trucks (6 m3)	hr	1	
1.2.3.7		1 ton bakkie	hr	1	
1.2.3.8		Pump and plugs for over pumping sewage (110mm to 315mm in diameter)	hr	1	
1.2.3.9		Pump and plugs for pumping water	hr	1	
1.2.3.10		Plate compactor	hr	1	
1,3	8,8	TEMPORARY WORKS			
1.3.1	8.8.4	Existing Services			
1.3.1.1		Excavate by hand in soft material to expose existing services as directed by the Engineer.	m ³	1	

1.3.2	8.8.5	Existing Services that Intersect or Adjoin a Pipe Trench			
1.3.2.2		Services that intersect a trench			
		i) Cables	No	1	
		ii) Water main	No	1	
		iii) Water house connections	No	1	
		iv) Sewer pipes up to 300 mm dia.	No	1	
		v) Stormwater pipes up to 1050 mm dia.	No	1	
		vi) Kerbs and Channels	No	1	
1.3.2.3	8.8.6	Services that adjoin a trench			
		i) Cables	m	1	
		ii) Water main	m	1	
		iii) Water house connections	m	1	
		iv) Sewer pipes	m	1	
		v) Stormwater pipes up to 1050 mm dia.	m	1	
		vi) Kerbs and Channels	m	1	
1,4	8.8.7	Special ground water control			
1.4.1		Allow for dewatering of trenches and other facilities as directed by the Engineer at a rate of at most 5 m ³ /h.	hour	1	
1,5	8.8.8	Cost of Survey in terms of the Land Survey Act			
1.5.1		As and when required: Topographical Survey as per the Engineer's instruction. Rate to include for a CD with AutoCAD drawing/s and co-ordinates data in CSV or text format.	ha	1	
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE
2,0	1200 C	SECTION 2 : SITE CLEARANCE			
2,1	8.2.1	Clear and grub along the pipeline route over a width of 3,0 m where ordered by the Engineer	m	1	
2,2		(a) Upon written instruction of the Engineer remove and grub large trees and tree stumps of girth over 1m and up to and including 2 m	No	1	
		(b) Cut roots of trees not exceeding 0.2m diameter.	No.	1	
2,3	PSC 8.2.5	Take down existing masonry walls and palisade fences			
		i) 110mm masonry wall	m ²	1	
		ii) 220mm wall	m ²	1	
		iii) 330mm wall	m ²	1	
		iv) Steel palisade fences (maximum height = 2.1m)	m	1	
		v) Concrete palisade fences (maximum height = 2.1m)	m	1	
2,4	PSC 8.2.11 (b)	Removal of man-made surfaces Roadways, Footways, driveways and other surfaces			
		i) Asphalt ≤ 50mm thickness (Asphalt must be saw cut neatly)	m ²	1	
		ii) Asphalt > 50 ≤ 100mm thickness (Asphalt must be saw cut neatly)	m ²	1	
		iii) Interlocking concrete segmental paving blocks (all colours)	m ²	1	
		iv) Concrete slabs	m ²	1	
		v) Brick paving	m ²	1	
		vi) Unreinforced concrete ≤ 75mm thick	m ²	1	
		vii) Reinforced concrete ≤ 75mm thick	m ²	1	
		viii) Garden and Lawn	m ²	1	
		ix) Kerbing (all types of kerbing)	m	1	
2,5	PSC 8.2.12	Backfilling and reinstatement of man-made surfaces			
2.5.1	PSC 8.2.12.1	Backfilling and reinstatement of roads			
2.5.1.1		Layer works			
		i) Base (At least G2 material to 102% Mod AASHTO)	m ³	1	
		ii) Subbase (At least G5 material to 95% Mod AASHTO)	m ³	1	
		iii) Selected subgrade (At least G7 material to 93% Mod AASHTO)	m ³	1	
2.5.1.2		Surfacing			

		i) <50mm Bitumen hot - mix: Fine	m ²	1	
		ii) 50mm< Bitumen hot<100 - mix: BTB	m ²	1	
2.5.2	PSC	Backfilling and reinstatement of footways and other surfaces.			
2.5.2.1	8.2.12.2	Using removed materials:			
		i) Interlocking concrete segmental paving blocks (all colours)	m ²	1	
		ii) Concrete slabs	m ²	1	
		iii) Brick paving	m ²	1	
		iv) Grassing	m ²	1	
		v) Kerbing (all types of kerbing)	m	1	
2.5.2.2		Using new supplied materials:			
		i) 30mm Bitumen hot - mix: Fine	m ²	1	
		ii) Interlocking concrete segmental paving blocks, including a 20mm river sand bedding layer, jointing sand (plaster sand) and mortar infill between edge restraint and blocks	m ²	1	
		iii) Concrete slabs (450 x 450mm) including a 20mm river sand bedding layer, jointing mortar	m ²	1	
		iv) Brick paving including a 20mm river sand bedding layer, jointing sand (plaster sand) and mortar infill between edge restraint and bricks	m ²	1	
		v) Unreinforced concrete ≤ 75mm thick (15MPa)	m ²	1	
		vi) Reinforced concrete ≤ 75mm thick (15MPa)	m ²	1	
		viii) Grassing	m ²	1	
		ix) Kerbing, including a 50mm bedding (cement and river sand), jointing mortar and 15MPa concrete haunching at all joints	m	1	
2.5.3	PSC	Reinstatement of existing masonry walls and palisade fences			
2.5.3.1	8.2.13	Face brick Walls			
		i) 110mm wall	m ²	1	
		ii) 220mm wall	m ²	1	
		iii) 330mm wall	m ²	1	
2.5.3.2		Plastered Walls			
		i) 110mm wall	m ²	1	
		ii) 220mm wall	m ²	1	
		iii) 330mm wall	m ²	1	
2.5.3.3		Steel Palisade fences (2.1m height)	m	1	
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE
3		SECTION 3 : REPLACE, REPAIR AND CONSTRUCT SEWERS			
		The work is for the supply, lay and backfill of various diameter sewer pipes. Also included are all tie ins and fittings as required.			
3,1	SABS 1200 DB	EARTHWORKS (PIPE TRENCHES)			
3,2	8.3.2	Excavation			
3.2.1		Excavate in all materials for trenches, shore (to be approved by the Engineer), backfill, compact, test and dispose of surplus / unsuitable material for the following depth ranges:			
3.2.1.1		0.0 to 1.5m (manual labour may be used for this depth range only)	m ³	1	
3.2.1.2		1.5 > depth ≤ 2.0m	m ³	1	
3.2.1.3		2.0 > depth ≤ 3.0	m ³	1	
3.2.1.4		3.0 > depth ≤ 3.5 m	m ³	1	
3.2.1.5		> 4.0 m	m ³	1	
3.2.2		Excavate for launching and reception shafts/ pits for depths upto 4.0m	m ³	1	
3.2.3		Extra over Items 3.2.1 for:			
3.2.3.1		Intermediate excavation	m ³	1	
3.2.3.2		Hard Rock Excavation (no blasting allowed)	m ³	1	
3.2.3.3		Concrete (both reinforced and unreinforced)	m ³	1	
3.2.4		Excavate and dispose of unsuitable material from trench bottom (Provisional)	m ³	1	
3,3	8.3.3	Excavation ancillaries			
	8.3.3.1	Make up deficiency in backfill material (Prov.)			
3.3.1		By importation from commercial or off-site sources selected by the Contractor within 10km free haul distance.	m ³	1	
3.3.2	8.3.3.2	Backfill in road and road reserves using "soilcrete" as approved by the JRA, 10km free haul distance.	m ³	1	

3,4	SABS 1200 LB	BEDDING (PIPES)			
3.4.1		Provision of bedding from trench excavations (Class C bedding)			
3.4.1.1		Selected granular material	m ³	1	
3.4.1.2		Selected fill material	m ³	1	
3.4.2		Supply of bedding material by importation from commercial sources (Provisional)			
3.4.2.1		Selected granular material	m ³	1	
3.4.2.2		Selected fill material	m ³	1	
3.4.2.3		19mm Stone as directed by the Engineer.	m ³	1	
3.4.2.4		Dump rock (stone size min. 50mm, max. 150mm)	m ³	1	
3,5		Encasing of pipes in 20 Mpa Concrete	m ³	1	
3,6	SABS 1200 LD	SEWERS			
3.6.1(a)		Supply, handle, lay and bed with flexible bedding, joint and test Class 34 uPVC solid wall sewer pipes (SANS 791) with flexible joints for the following diameters			
		110mm dia	m	1	
		160mm dia	m	1	
		200mm dia	m	1	
		250mm dia	m	1	
		315mm dia	m	1	
		355mm dia	m	1	
		400mm dia	m	1	
		450mm dia	m	1	
3.6.1(b)		Supply, handle, lay and bed with Class B bedding, joint and test Class 400 uPVC solid wall sewer pipes (SANS 1601) with flexible joints for the following diameters			
		110mm dia	m		
		160mm dia	m	1	
		200mm dia	m	1	
		250mm dia	m	1	
		315mm dia	m	1	
		355mm dia	m	1	
		400mm dia	m	1	
		450mm dia	m	1	

3.6.1(c)	PSL 3.4	Supply, handle, lay and bed with Class B bedding, joint (butt welding) and test HDPE PE100 PN10 sewer pipes			
		200mm dia	m	1	
		250mm dia	m	1	
		315mm dia	m	1	
		355mm dia	m	1	
		400mm dia	m	1	
		450mm dia	m	1	
		600 mm dia	m	1	
3.6.1(d)	PSL 3.4	Supply, handle, lay and bed with Class B bedding, joint and test concrete sewer pipes with a minimum of 20 mm thick sacrificial layer for effective corrosion protection.			
		450mm dia	m	1	
		525mm dia	m	1	
		600mm dia	m	1	
		675mm dia	m	1	
		750mm dia	m	1	
		825mm dia	m	1	
		900mm dia	m	1	
		1050mm dia	m	1	
		1200mm dia	m	1	
		600mm dia	m	1	
		1350mm dia	m	1	
		1500mm dia	m	1	
		1650mm dia	m	1	
		1800mm dia	m	1	
		1950mm dia	m	1	
		2250mm dia	m	1	
3.6.2		Extra over item 3.6.1(a) & (b) for supply, handle, lay, joint, bed (Class B) and test specials as follows:			
3.6.2.1		PLAIN JUNCTIONS			
3.6.2.1.1		160mm x 110mm	No	1	
3.6.2.1.2		200mm x 110mm	No	1	
3.6.2.1.3		250mm x 110mm	No	1	
3.6.2.1.4		315mm x 110mm	No	1	
3.6.2.1.5		355mm x 110mm	No	1	
3.6.2.1.6		400mm x 110mm	No	1	

3.6.2.1.7		450mm x 110mm	No	1	
3.6.2.1.8		160mm x 160mm	No	1	
3.6.2.1.9		200mm x 160mm	No	1	
3.6.2.1.10		250mm x 160mm	No	1	
3.6.2.1.11		315mm x 160mm	No	1	
3.6.2.1.12		355mm x 160mm	No	1	
3.6.2.1.13		400mm x 160mm	No	1	
3.6.2.1.14		450mm x 160mm	No	1	
3.6.2.2		BENDS			
3.6.2.2.1		110mm x 22.5 degree bend	No	1	
3.6.2.2.2		110mm X 45 degree bend	No	1	
3.6.2.2.3		160mm x 22.5 degree bend	No	1	
3.6.2.2.4		160mm X 45 degree bend	No	1	
3.6.2.3		OTHER			
3.6.2.3.1		160mm x 110mm saddles	No	1	
3.6.2.3.2		200mm x 110mm saddles	No	1	
3.6.2.3.3		110 mm uPVC to earthen ware adaptor	No	1	
3.6.2.3.4		160 mm uPVC to earthen ware adaptor	No	1	
3.6.2.3.5		200 mm uPVC to earthen ware adaptor	No	1	
3,7		Erf Connections			
		Extra over item 3.6.1 (a) & (b) for tie-in of existing erf connections onto new sewer line			
3.7.1		Erf Connections	No	1	
		Rate to include for all additional fittings not included in item 2.6.2.			
3,8	PSL 3.11	Manholes			
3.8.1		Manholes (1050mm dia) Precast Rings inc cover slabs, benching, approved channeling and sealing of rings and backfilling, heavy duty concrete cover			
3.8.1.1		0.0 > depth ≤ 1.5m	No	1	
3.8.1.2		1.5 > depth ≤ 2.0m	No	1	
3.8.1.3		2.0 < depth ≤ 3.0m	No	1	
3.8.2		Manholes (1250mm dia) Precast Rings inc cover slabs, benching, approved channeling and sealing of rings and backfilling, heavy duty concrete cover			
3.8.2.1		0.0 < depth ≤ 3.5m	No	1	
3.8.2.2		3.5 > depth ≤ 4.0m	No	1	
3.8.2.3		4.0 > depth ≤ 4.5m	No	1	

3.8.3		Manholes (1500mm dia) Precast Rings inc cover slabs, benching, approved channeling and sealing of rings and backfilling, heavy duty concrete cover			
3.8.3.1		Depth > 4.5m	No	1	
3.9	PSL 5.12	Connection to existing sewer			
3.9.1		Tie into existing manhole. Rate to include breaking of manhole and benching, new channel where necessary and make good the manhole.	No.	1	
3.9.2		Tie into existing sewer pipe, cut in and construct junction excluding manhole for pipe diameters $\leq$ 200mm	No.	1	
3.9.3		Saddle connections to existing sewer pipe $\leq$ 200 mm complete.	No.	1	
3.10.		Raising or lowering of existing manholes			
		Raise by 0.0 to 0.5m	No	1	
		Lower by 0.0 to 0.5m	No	1	
		Raise by 0.5 to 1,5m	No	1	
		Lower by 0,5 to 1.5m	No	1	
3,11		Miscellaneous			
3.11.1		Supply, handle, install HDPE PE100 PN 10 sewer pipes in the following diameters for depths not exceeding 5m using Horizontal Directional Drilling (HDD). Excavation for launching and receiving pits measured elsewhere.			
		a) 110mm	m	1	
		b) 160mm	m	1	
		c) 200mm	m	1	
		d) 250mm	m	1	
		e) 315mm	m	1	
		f) 355mm	m	1	
		g) 400mm	m	1	
		h) 450mm	m	1	
3.11.2	PSL5.1.3.2	Supply, handle, install HDPE pipes PN10 PE100 in the following diameters for depths not exceeding 5m using pipe bursting.			
		a) 110mm	m	1	
		b) 160mm	m	1	
		c) 200mm	m	1	
		d) 250mm	m	1	
		e) 315mm	m	1	



EMERGENCY REPAIR AND REPLACEMENT OF SEWER AND WATER INFRASTRUCTURE



3,12		f) 355mm	m	1	
		g) 400mm	m	1	
		h) 450mm	m	1	
		Point repairs to sewers 110mm to 400mm dia. Rate to include for concrete work not exceeding 1 m³ and any contingency materials. Excavation measured elsewhere in this bill.			
		0.0-0.3m	No	1	
		0.3-0.5m	No	1	
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE
		<u>SCHEDULE 4 : CCTV CAMERA SURVEY</u>			
4	PSL 7.3.4	SECTION 6: CCTV INSPECTIONS			
4,1		Manhole length isolation			
4.1.1		a) Plugging Conduits:			
		i) 0 ≥ 150mm diameter	No.	1	
		ii) 150 > and ≤ 315mm diameter	No.	1	
		iii) 315 > and ≤ 500mm diameter	No.	1	
		vi) 500 > and ≤ 800mm diameter	No.	1	
		v) 800 > and ≤ 1350mm diameter	No.	1	
		vi) 1350 > and ≤ 1800mm diameter	No.	1	
		vii) >1800 diameter	No.	1	
4.1.2		b) Over-pumping including any plugging required			
		i) 0 ≥ 150mm diameter	hours	1	
		ii) 150 > and ≤ 315mm diameter	hours	1	
		iii) 315 > and ≤ 500mm diameter	hours	1	
		vi) 500 > and ≤ 800mm diameter	hours	1	
		v) 800 > and ≤ 1350mm diameter	hours	1	
		vi) 1350 > and ≤ 1800mm diameter	hours	1	
		vii) >1800 diameter	hours	1	
4.1.3		c) Cleaning of conduits			
		i) sewer conduit ≤ 160mm	m	1	
		ii) sewer conduit > 160mm ≤ 450mm	m	1	
		iii) sewer conduit > 450mm ≤ 800mm	m	1	
		iv) sewer conduit > 800mm ≤ 1200mm	m	1	
		v) sewer conduit > 1200mm ≤ 1600mm	m	1	
		vi) sewer conduit > 1600mm ≤ 2000mm	m	1	
		vii) sewer conduit > 2000mm ≤ 2500mm	m	1	
4.1.4		d) Extra over for un-blocking conduits			
		i) sewer conduit ≤ 160mm	m	1	
		ii) sewer conduit > 160mm ≤ 450mm	m	1	
		iii) sewer conduit > 450mm ≤ 800mm	m	1	

		iv) sewer conduit > 800mm ≤ 1200mm	m	1	
		v) sewer conduit > 1200mm ≤ 1600mm	m	1	
		vi) sewer conduit > 1600mm ≤ 2000mm	m	1	
		vii) sewer conduit > 2000mm ≤ 2500mm	m	1	
4,2	PSL7.3.4	CCTV SURVEY			
4.2.1	PSL7.3.4	CCTV camera surveys of pipelines and after upgrade works, of the following diameter			
		i) sewer conduit ≤ 160mm	m	1	
		ii) sewer conduit > 160mm ≤ 450mm	m	1	
		iii) sewer conduit > 450mm ≤ 800mm	m	1	
		iv) sewer conduit > 800mm ≤ 1200mm	m	1	
		v) sewer conduit > 1200mm ≤ 1600mm	m	1	
		vi) sewer conduit > 1600mm ≤ 2000mm	m	1	
		vii) sewer conduit > 2000mm ≤ 2500mm	m	1	
		CCTV camera surveys for existing pipelines and after cleaning works, of the following diameter			
		i) sewer conduit ≤ 160mm	m	1	
		ii) sewer conduit > 160mm ≤ 450mm	m	1	
		iii) sewer conduit > 450mm ≤ 800mm	m	1	
		iv) sewer conduit > 800mm ≤ 1200mm	m	1	
		v) sewer conduit > 1200mm ≤ 1600mm	m	1	
		vi) sewer conduit > 1600mm ≤ 2000mm	m	1	
		vii) sewer conduit > 2000mm ≤ 2500mm	m	1	
4.2.2		CCTV Reports Compile and submit inspection report at prescribed format	Sum	1	
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE
5		SECTION 5: REPLACE, REPAIR AND CONSTRUCT WATER MAINS			
5,1	SANS 1200 L	MEDIUM PRESSURE PIPELINES			
5.5.1		Supply , lay and bed Modified High Impact PVC pressure pipe to SANS 1283 Class 16 complete with pressed on SG42 shouldered ends and coupling assemblies			
5.5.1.1		105mm diameter	m	1	
5.5.1.2		110mm diameter	m	1	
5.5.1.3		155mm diameter	m	1	
5.5.1.4		160mm diameter	m	1	
5.5.1.5		200mm diameter	m	1	
5.5.1.6		250mm diameter	m	1	
5.5.1.7		315mm diameter	m	1	
5.5.2		Supply , lay and bed mPVC pressure pipe to SANS 966-Part 2 Class 16 complete with spigot and socket joint assembly			
5.5.1.1		110mm diameter	m	1	
5.5.1.2		160mm diameter	m	1	
5.5.1.3		200mm diameter	m	1	
5.5.1.4		250mm diameter	m	1	
5.5.1.5		315mm diameter	m	1	
5.5.3		Supply, lay and bed pipes complete with complete with butt welding, and flange adaptors were necessary HPDE pipes.			
5.5.3.1		110mm diameter Class 16, PE100 SDR11	m	1	
5.5.3.2		160mm diameter Class 16, PE100 SDR11	m	1	
5.5.3.3		200mm diameter Class 16, PE100 SDR11	m	1	
5.5.3.4		250mm diameter Class 16, PE100 SDR11	m	1	
5.5.3.5		315mm diameter Class 16, PE100 SDR11	m	1	
5.5.3.6		355mm diameter Class 16, PE100 SDR17	m	1	
5.5.3.7		400 mm diameter Class 16, PE100 SDR17	m	1	
5.5.3.8		450 mm diameter Class 16, PE100 SDR17	m	1	
5.5.3.9		500 mm diameter Class 16, PE100 SDR17	m	1	
5.5.3.10		560 mm diameter Class 16, PE100 SDR17	m	1	

5.5.3.11		630 mm diameter Class 16, PE100 SDR17	m	1	
5.5.4		Supply, handle, lay, bed Grade 300WA flanged steel pipes, Copon Coated inside and outside, including all gaskets, bolts and nuts.			
5.5.4.1		200mm diameter	m	1	
5.5.4.2		250mm diameter	m	1	
5.5.4.3		300 mm diameter	m	1	
5.5.4.4		315 mm diameter	m	1	
5.5.4.5		400 mm diameter	m	1	
5.5.4.6		450 mm diameter	m	1	
5.5.4.7		600 mm diameter	m	1	
5.5.4.8		650 mm diameter	m	1	
5.5.4.9		700 mm diameter	m	1	
5.5.4.10		750 mm diameter	m	1	
5.5.4.11		800 mm diameter	m	1	
5.5.4.12		900 mm diameter	m	1	
5.5.4.13		1000 mm diameter	m	1	
		Ditto but continuous welded for:			
5.5.4.14		200mm diameter	m	1	
5.5.4.15		250mm diameter	m	1	
5.5.4.16		300 mm diameter	m	1	
5.5.4.17		315 mm diameter	m	1	
5.5.4.18		400 mm diameter	m	1	
5.5.4.19		450 mm diameter	m	1	
5.5.4.20		600 mm diameter	m	1	
5.5.4.21		650 mm diameter	m	1	
5.5.4.22		700 mm diameter	m	1	
5.5.4.23		750 mm diameter	m	1	
5.5.4.24		800 mm diameter	m	1	
5.5.4.25		900 mm diameter	m	1	
5.5.4.26		1000 mm diameter	m	1	
	SANS 1200 L				
5.5.5		Extra Over 5.5.1, Supply, laying, bedding of steel specials complete with clamps for pipes $\leq$ 160 and flanges for pipes $>$ 160 mm.			
5.5.5.1		BENDS			
5.5.5.1.1		110mm dia 90deg bends	No	1	
5.5.5.1.2		110mm dia 45deg bends	No	1	
5.5.5.1.3		110mm dia 22.5deg bends	No	1	
5.5.5.1.4		160mm dia 90deg bends	No	1	
5.5.5.1.5		160mm dia 45deg bends	No	1	
5.5.5.1.6		160mm dia 22.5deg bends	No	1	

5.5.5.1.7	200mm dia 90deg bends	No	1
5.5.5.1.8	200mm dia 45deg bends	No	1
5.5.5.1.9	200mm dia 22.5deg bends	No	1
5.5.5.1.10	250mm dia 90deg bends	No	1
5.5.5.1.11	250mm dia 45deg bends	No	1
5.5.5.1.12	250mm dia 22.5deg bends	No	1
5.5.5.1.13	315mm dia 90deg bends	No	1
5.5.5.1.14	315mm dia 45deg bends	No	1
5.5.5.1.15	315mm dia 22.5deg bends	No	1
5.5.5.2	TEES		
5.5.5.2.1	110mm x 63mm	No	1
5.5.5.2.2	110mm x 110mm	No	1
5.5.5.2.3	160mm x 110mm	No	1
5.5.5.2.4	160mm x 160mm	No	1
5.5.5.2.5	200mm x 110mm	No	1
5.5.5.2.6	200mm x 160mm	No	1
5.5.5.2.7	200mm x 200mm	No	1
5.5.5.2.8	250mm x 110mm	No	1
5.5.5.2.9	250mm x 160mm	No	1
5.5.5.2.10	250mm x 250mm	No	1
5.5.5.2.11	315mm x 110mm	No	1
5.5.5.2.12	315mm x 160mm	No	1
5.5.5.2.13	315mm x 200mm	No	1
5.5.5.2.14	315mm x 250mm	No	1
5.5.5.2.15	315mm x 315mm	No	1
5.5.5.3	FLANGE ADAPTORS		
5.5.5.3.1	110mm diameter	No	1
5.5.5.3.2	160mm diameter	No	1
5.5.5.3.3	200mm diameter	No	1
5.5.5.3.4	250mm diameter	No	1
5.5.5.3.5	315mm diameter	No	1
5.5.5.4	REDUCER		
5.5.5.4.1	110x63mm diameter	No	1
5.5.5.4.2	160x110mm diameter	No	1
5.5.5.4.3	200x110mm diameter	No	1
5.5.5.4.4	200x160mm diameter	No	1
5.5.5.4.5	250x160mm diameter	No	1
5.5.5.4.6	250x200mm diameter	No	1
5.5.5.4.7	315x160mm diameter	No	1
5.5.5.4.8	315x200mm diameter	No	1
5.5.5.4.9	315x250mm diameter	No	1

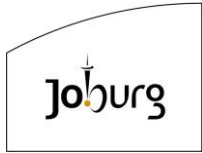
5.5.6	Extra Over 5.5.2, Supply , laying, bedding of specials complete with welding.			
5.5.6.1	BENDS			
5.5.5.6.1	110mm dia 90deg bends	No	1	
5.5.5.6.2	110mm dia 45deg bends	No	1	
5.5.5.6.3	110mm dia 22deg bends	No	1	
5.5.5.6.4	160mm dia 90deg bends	No	1	
5.5.5.6.5	160mm dia 45deg bends	No	1	
5.5.5.6.6	160mm dia 22deg bends	No	1	
5.5.5.6.7	200mm dia 90deg bends	No	1	
5.5.5.6.8	200mm dia 45deg bends	No	1	
5.5.5.6.9	200mm dia 22deg bends	No	1	
5.5.5.6.10	250mm dia 90deg bends	No	1	
5.5.5.6.11	250mm dia 45deg bends	No	1	
5.5.5.6.12	250mm dia 22deg bends	No	1	
5.5.5.6.13	315mm dia 90deg bends	No	1	
5.5.5.6.14	315mm dia 45deg bends	No	1	
5.5.5.6.15	315mm dia 22deg bends	No	1	
5.5.6.2	TEES			
5.5.6.2.1	110mm x 63mm	No	1	
5.5.6.2.2	110mm x 110mm	No	1	
5.5.6.2.3	160mm x 110mm	No	1	
5.5.6.2.4	160mm x 160mm	No	1	
5.5.6.2.5	200mm x 110mm	No	1	
5.5.6.2.6	200mm x 160mm	No	1	
5.5.6.2.7	200mm x 200mm	No	1	
5.5.6.2.8				
5.5.6.2.9	250mm x 110mm	No	1	
5.5.6.2.10	250mm x 160mm	No	1	
5.5.6.2.11	250mm x 250mm	No	1	
5.5.6.2.12	315mm x 110mm	No	1	
5.5.6.2.13	315mm x 160mm	No	1	
5.5.6.2.14	315mm x 200mm	No	1	
5.5.6.2.15	315mm x 250mm	No	1	
5.5.6.2.16	315mm x 315mm	No	1	
5.5.6.3	FLANGES			
5.5.6.3.1	110mm diameter	No	1	
5.5.6.3.2	160mm diameter	No	1	
5.5.6.3.3	200mm diameter	No	1	
5.5.6.3.4	250mm diameter	No	1	
5.5.6.3.5	315mm diameter	No	1	

5.5.6.4	REDUCER			
5.5.6.4.1	110x63mm diameter			
5.5.6.4.2	160x110mm diameter	No	1	
5.5.6.4.3	200x110mm diameter	No	1	
5.5.6.4.4	200x160mm diameter	No	1	
5.5.6.4.5	250x160mm diameter	No	1	
5.5.6.4.6	250x200mm diameter	No	1	
5.5.6.4.7	315x160mm diameter	No	1	
5.5.6.4.8	315x200mm diameter	No	1	
5.5.6.4.9	315x250mm diameter	No	1	
5.5.7	Extra Over 5.5.3, Supply , laying, bedding of specials complete with flanges.			
5.5.7.1	BENDS			
5.5.7.1.1	110mm dia 90deg bends	No	1	
5.5.7.1.2	110mm dia 45deg bends	No	1	
5.5.7.1.3	110mm dia 22deg bends	No	1	
5.5.7.1.4	160mm dia 90deg bends	No	1	
5.5.7.1.5	160mm dia 45deg bends	No	1	
5.5.7.1.6	160mm dia 22deg bends	No	1	
5.5.7.1.7	200mm dia 90deg bends	No	1	
5.5.7.1.8	200mm dia 45deg bends	No	1	
5.5.7.1.9	200mm dia 22deg bends	No	1	
5.5.7.1.10	250mm dia 90deg bends	No	1	
5.5.7.1.11	250mm dia 45deg bends	No	1	
5.5.7.1.12	250mm dia 22deg bends	No	1	
5.5.7.1.13	315mm dia 90deg bends	No	1	
5.5.7.1.14	315mm dia 45deg bends	No	1	
5.5.7.1.15	315mm dia 22deg bends	No	1	
5.5.7.1.16	355mm dia 90deg bends	No	1	
5.5.7.1.17	355mm dia 45deg bends	No	1	
5.5.7.1.18	355mm dia 22deg bends	No	1	
5.5.7.1.19	400mm dia 22deg bends	No	1	
5.5.7.1.20	400mm dia 22deg bends	No	1	
5.5.7.1.21	400mm dia 22deg bends	No	1	
5.5.7.1.22	450mm dia 22deg bends	No	1	
5.5.7.1.23	450mm dia 22deg bends	No	1	
5.5.7.1.24	450mm dia 22deg bends	No	1	
5.5.7.1.25	500mm dia 22deg bends	No	1	
5.5.7.1.26	500mm dia 22deg bends	No	1	
5.5.7.1.27	500mm dia 22deg bends	No	1	
5.5.7.1.28	560mm dia 22deg bends	No	1	
5.5.7.1.29	560mm dia 22deg bends	No	1	
5.5.7.1.30	560mm dia 22deg bends	No	1	
5.5.7.1.31	630mm dia 22deg bends	No	1	

5.5.7.1.32		630mm dia 22deg bends	No	1	
5.5.7.1.33		630mm dia 22deg bends	No	1	
5.5.7.2		TEES			
5.5.7.2.1		200mm x 150mm	No	1	
5.5.7.2.2		200mm x 200mm	No	1	
5.5.7.2.3		250mm x 150mm	No	1	
5.5.7.2.4		250mm x 200mm	No	1	
5.5.7.2.5		250mm x 250mm	No	1	
5.5.7.2.6		300mm x 200mm	No	1	
5.5.7.2.7		300mm x 250mm	No	1	
5.5.7.2.8		300mm x 300mm	No	1	
5.5.7.3		FLANGES			
5.5.7.3.1		150mm diameter	No	1	
5.5.7.3.2		200mm diameter	No	1	
5.5.7.3.3		250mm diameter	No	1	
5.5.7.3.4		300mm diameter	No	1	
5.5.7.4		REDUCER			
5.5.7.4.1		150x100mm diameter	No	1	
5.5.7.4.2		200x100mm diameter	No	1	
5.5.7.4.3		200x150mm diameter	No	1	
5.5.7.4.4		250x150mm diameter	No	1	
5.5.7.4.5		250x200mm diameter	No	1	
5.5.7.4.6		300x100mm diameter	No	1	
5.5.7.4.7		300x200mm diameter	No	1	
5.5.7.4.8		300x250mm diameter	No	1	
5.5.7		Extra Over items 5.5.1 to 5.5.3 for the supplying and installation of VJ couplings inc galvanised bolts, nuts and rubber gaskets.			
5.5.7.1		100mm	No.	1	
5.5.7.2		150mm	No.	1	
5.5.7.3		165mm	No.	1	
5.5.7.4		212mm	No.	1	
5.5.7.5		262mm	No.	1	
5.5.7.6		324mm	No.	1	
5.5.8	PSL 3.10	Extra-over 5.5.1 to 5.5.3 for the supplying, fixing, bedding of valves inc supply of precast valve chambers and lids and marker.			
5.5.8.1		110mm dia RSV Gate Valve, non-rising spindle,anti-clockwise closing	No.	1	
5.5.8.2		160mm dia RSV Gate Valve, non-rising spindle,anti-clockwise closing	No.	1	

5.5.8.3		200mm dia Wedge Type Gate Valve, non-rising spindle,anti-clockwise closing	No.	1	
5.5.8.4		250mm dia Wedge Type Gate Valve, non-rising spindle,anti-clockwise closing	No.	1	
5.5.8.5		300mm dia Wedge Type Gate Valve, non-rising spindle,anti-clockwise closing	No.	1	
5.5.8.6		600mm dia Wedge Type Gate Valve, non-rising spindle,anti-clockwise closing	No.	1	
5.5.8.7		110mm dia RSV Gate Valve, non-rising spindle,clockwise closing	No.	1	
5.5.8.8		160mm dia RSV Gate Valve, non-rising spindle,clockwise closing	No.	1	
5.5.8.9		200mm dia Wedge Type Gate Valve, non-rising spindle,clockwise closing	No.	1	
5.5.8.10		250mm dia Wedge Type Gate Valve, non-rising spindle,clockwise closing	No.	1	
5.5.8.11		300mm dia Wedge Type Gate Valve, non-rising spindle,clockwise closing	No.	1	
5.5.8.12		600mm dia Wedge Type Gate Valve, non-rising spindle,aclockwise closing	No.	1	
5.5.9		Fire hydrant			
5.5.9.1		Extra-over 5.5.1 to 5.5.3 for the supplying, fixing, bedding of 80mm Woodlands Fire hydrant (above ground) inc Flanged T-piece, 90deg elbow and stand pipe.	No.	1	
5.5.9.2		Ditto below ground hydrant	No.	1	
5.5.10	PSL 5.11	Extra-over 5.5.1 to 5.5.3 for the connection to existing pipe.			
5.5.10.1		Tie new pipe into existing water main 110mm x110mm	No.	1	
5.5.10.2		Tie new pipe into existing water main 160mm x110mm	No.	1	
5.5.10.3		Tie new pipe into existing water main 160mm x160mm	No.	1	
5.5.10.4		Tie new pipe into existing water main 200mm x 110mm	No.	1	
5.5.10.5		Tie new pipe into existing water main 200mm x 160mm	No.	1	
5.5.10.6		Tie new pipe into existing water main 200mm x 200mm	No.	1	
5.5.10.7		Tie new pipe into existing water main 250mm x 110mm	No.	1	
5.5.10.8		Tie new pipe into existing water main 250mm x 160mm	No.	1	
5.5.10.9		Tie new pipe into existing water main 250mm x 200mm	No.	1	

	SABS 1200 L				
5.5.11		Extra-over 5.5.1 for protecting joints			
5.5.11.1		Denso tape wrap all joints (Provisional amount)	No.	1	
5.5.12		Extra over 5.5.1 to 5.5.2 reconnect house connections including 110mm saddles, 20mm HDPE Class 16 lead and all fittings necessary to tie into existing house connection and meter box			
5.5.12.1		20mm house connections	No.	1	
5.5.12.2		32mm lead road crossing 6m long inclusive of drilling under road	No.	1	
5.5.13		Supply, handle, install HDPE pipes PE100 in the following diameters for depths not exceeding 2m using Horizontal Directional Drilling (HDD).			
5.5.13.1		a) 20 mm dia PN 12.5	m	1	
5.5.13.2		b) 25 mm dia PN 12.5	m	1	
5.5.13.3		c) 32 mm dia PN 12.5	m	1	
5.5.13.4		d) 50 mm dia PN 12.5	m	1	
5.5.13.5		e) 63 mm dia PN 16	m	1	
5.5.13.6		f) 110mm dia PN 16	m	1	
5.5.13.7		g) 160mm dia PN 16	m	1	
5.5.13.8		h) 200mm dia PN 16	m	1	
5.5.13.9		i) 250mm dia PN 16	m	1	
5.5.13.10		j) 315mm dia PN 16	m	1	
5.5.13.11		i) 355mm dia PN 16	m	1	
5.5.13.12		j) 375mm dia PN 16	m	1	
5.5.13.13		i) 400mm dia PN 16	m	1	
5.5.13.14		j) 450 mm dia PN 16	m	1	
5.5.13.14		Extra over for item 5.5.13 in hard rocks	m	1	
5.5.5.15		Supply and install PRV complete with all fittings, including PRV Chamber as per Standard Drawing JW100-Det10.1-W01			
5.5.5.15.1		a) 110mm diameter	No	1	
5.5.5.15.2		b)160 mm diameter	No	1	
5.5.5.15.3		c) 200mm diameter	No	1	
5.5.5.15.4		d)250mm diameter	No	1	
5.5.5.15.5		e)300mm diameter	No	1	

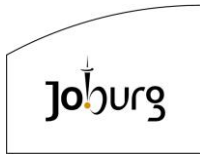


**EMERGENCY REPAIR AND REPLACEMENT OF SEWER
AND WATER INFRASTRUCTURE**



TOTAL CARRIED FORWARD TO SUMMARY					

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE
6		SECTION 6: EROSION PROTECTION The work includes the repair and erosion protection of sewer and water mains where crossing streams. All excavation measured elsewhere.			
6,1	SABS 1200 DK	GABIONS			
6.1.1	8.2.1	Surface Preparation Cavities filled with approved excavated material	m ²	1	
		Cavities filled with grade 15Mpa concrete(provisional)	m ³	1	
6.1.2	8.2.2	Gabions Supply and install Gabions GABIONS - SANS 1200DK:1995 (Double twist hexagonal wire mesh to SANS 1580:2005) Mesh Type 80 with 2,7/3,7mm Class A Galvanised and PVC coated wire			
6.1.2.1		Installation of Gabion units (Including unfolding, placing, filling, lacing and bracing)			
6.1.2.2		Gabions Boxes 1.0m x1.0m x1.0m (uPVC coated wire)	No	1	
6.1.2.3		Gabion mattresses 2.0m x 2.0m x 0.3m (uPVC coated wire)	No	1	
6.1.3		Supply and pack rock filling	m ³	1	
6.1.4		Supply and install Geotextile membrane			
6.1.4.1		AG150 - Minimum Energy Absorption - 4,0kN/m	m ²	1	
6,2	8.2.5	Pitching			
6.2.1		Medium pitching - plain	m ²	1	
		Retaining Walls			
6.2.2		Supply and install interlocking concrete retaining wall blocks			



**EMERGENCY REPAIR AND REPLACEMENT OF SEWER
AND WATER INFRASTRUCTURE**



		220 x 150 x 300 mm square block	m ²	1	
		150 x 200 mm semi-circle block	m ²	1	
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE ONLY
7	SABS 1200DB	SCHEDULE 7: EARTHWORKS (PIPE TRENCHES)			
7.1	8.3.2	Excavation			
7.1.1	PSDB 8.3.2(a)	Excavate in all material for trenches, shore and dispose of surplus material using labour intensive construction methods for the depths of:			
		a) Over 0,0m and up to 1,5m	m ³	1	
		b) Over 1,5m and up to 2,5m	m ³	1	
		c) Over 2,5m	m ³	1	
7.1.2	PSDB 8.3.2(3)	Excavate by hand in all material for tie-ins, house connections, backfill and compact including disposal of surplus unsuitable material for depth:			
		a) Over 0,0m and up to 1,0m	m ³	1	
		b) Over 1,0m and up to 1,5m	m ³	1	
		c) Over 1,5m	m ³	1	
7.1.3	8.3.2(b)	Extra over Item 3.1.1 above for : Please refer to PSD 3.1.3 for Classification of materials for hand excavations			
		a) Intermediate excavation.	m ³	1	
		b) Hard excavation.	m ³	1	
		c) Rock excavation	m ³	1	
7.2	8.3.3	Excavation Ancillaries			
7.2.1	8.3.3.1	Make up deficiency in backfill material (Provisional)			
		a) from other necessary excavations on site	m ³	1	
		b) by importation from designated borrow pits	m ³	1	
		c) by importation from commercial or off-site sources selected by the Contractor	m ³	1	

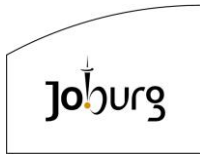
7.3	8.3.3.3	Additional compaction to 95% mod AASHTO density in road crossings	m ³	1	
7.4	8.3.4 (a)	Shore trench opposite structure or service (Provisional)	m	1	
7.5	PSDB 8.3.5(a)	a) Services that intersect a trench			
		i) Water house connections.	No.	1	
		ii) Sewer pipes up to 300mm Dia.	No.	1	
		iii) Cables.	No.	1	
		iv) Stormwater pipes up to 1050mm dia.	No.	1	
		v) Kerbs and Channels	No.	1	
		vi) Water pipes of any diameter	No.	1	
		vii) Irrigation pipes	No.	1	
7.6	8.3.5(b)	b) Services that adjoin a trench			
		i) Water house connections	m	1	
		ii) Sewer pipes up to 600mm Dia.	m	1	
		iii) Cables.	m	1	
		iv) Stormwater pipes up to 1050mm dia.	m	1	
		v) Kerbs and Channels	m	1	
		vi) Water pipes of any diameter	m	1	
		vii) Irrigation pipes	m	1	
7.7	PSDB 8.3.5(c)	Services that require special care	No.	1	
7.8		Trimming of tree roots on pipe alignment (This item will be measured as number of trees)	No.	1	
TOTAL CARRIED FORWARD TO SUMMARY					



EMERGENCY REPAIR AND REPLACEMENT OF SEWER AND WATER INFRASTRUCTURE



ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE ONLY
8	SABS 1200 GA	SCHEDULE 8: CONCRETE (SMALL WORKS)			
8,1	8,3	SCHEDULED REINFORCEMENT ITEMS			
8.1.1	8.3.1	<u>Mild steel reinforcement</u>			
		R 6	kg	1	
		R 8	kg	1	
8.1.2	8.3.1	<u>Mild steel reinforcement</u>			
		Y8	kg	1	
		Y10	kg	1	
		Y12	kg	1	
		Y16	kg	1	
		Y20	kg	1	
8.1.3	8.3.2	<u>High-tensile Welded Mesh:</u>			
		a) Ref. 245 welded mesh to sidewalks	m ²	1	
		a) Ref. 617 welded mesh to sidewalks	m ²	1	
8,2	8,4	SCHEDULED CONCRETE ITEMS			
8.2.1	8.4.3	<u>Cast-in-situ concrete including formwork</u>			
		a) Grade 10MPa/19mm	m ³	1	
		b) Grade 15MPa/19mm	m ³	1	
		c) Grade 20MPa/19mm	m ³	1	
		d) Grade 25MPa/19mm	m ³	1	
		e) Grade 30MPa/19mm	m ³	1	
TOTAL CARRIED FORWARD TO SUMMARY					



EMERGENCY REPAIR AND REPLACEMENT OF SEWER AND WATER INFRASTRUCTURE



SUMMARY OF BILL OF QUANTITIES		TENDER AMOUNT
DESCRIPTION		
Schedule 1	General	R
Schedule 2	Site Clearance	R
Schedule 3	Replace, repair and construct sewers	R
Schedule 4	CCTV camera survey	R
Schedule 5	Replace, repair and construct water mains	R
Schedule 6	Erosion protection	R
Schedule 7	Earthworks (pipe trenches)	R
Schedule 8	Concrete (small works)	R
Total Excluding VAT		R
VAT Amount		R
Total Including VAT		R

Prices Firm / Non-Firm?

Suppliers to complete the below according to their company details.

INFORMATION FOR SPECIFIC GOALS ANALYSIS	
BUSINESS OWNED BY 51% OR MORE -BLACK PEOPLE	
1. Percentage (%) of Black Ownership)	
2. Is Black Ownership 51% or more? (Yes or No)	
BUSINESS OWNED BY 51% OR MORE – BLACK YOUTH	
1. Percentage (%) of Ownership by Black Youth	
2. Is the percentage of Black Youth Ownership 51 % or more? (Yes or No)	
BUSINESS OWNED BY 51% OR MORE-WOMEN	
1. Percentage (%) of Ownership by People who are Women	
2. Is the percentage of People who are Women 51 % or more? (Yes or No)	
BUSINESSES LOCATED WITHIN THE BOUNDARIES OF A REGION IN COJ, COJ MUNICIPALITY OR IN GAUTENG PROVINCE	
1. Is your business located in the Gauteng Province? (Yes or No)	
2. Is your business located in the COJ Municipality? (Yes or No)	
3. Is your business located within the region of the COJ? (Yes or No)	
BUSINESS OWNED BY 51% OR MORE - BLACK PEOPLE WHO ARE MILITARY VETERANS	
1. Percentage (%) of Ownership by Black People Who Are Military Veterans	
2. Is the percentage of Ownership by Black People Who Are Military Veterans 51% or more? (Yes or No)	
BUSINESS OWNED BY 51% OR MORE-BLACK PEOPLE WITH DISABILITIES	
1. Percentage (%) of Ownership by Black People With Disabilities	
2. Is the percentage of Ownership by Black People with Disabilities 51% or more? (Yes or No)	
SMME (AN EME OR QSE) OWNED BY 51% OR MORE - BLACK PEOPLE	
1. What is the Enterprise Type? EME – turnover is less than R10m QSE – Turnover between R10m and R50m Generic – Turnover is R50M of more	
JOINT VENTURE (JV), CONSORTIUM OR EQUIVALENT	
1. What is the percentage (%) of ownership for each party?	
SUBCONTRACTING WITH COMPANIES AT LEAST 51% OWNED BY HISTORICALLY DISADVANTAGED INDIVIDUAL (HDI) GROUPS MENTIONED ABOVE	

1. What is the percentage (%) that will be sub-contracted to companies that are at least 51% owned by Historically Disadvantaged Individual (HDI) groups mentioned above?	
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INFORMATION PRICE BREAKDOWN			
DESCRIPTION	BREAKDOWN IN PERCENTAGE	APPLICABLE INDEX	IMPACTED BY ROE (YES/NO)
Raw materials			
Direct Labour			
Direct Overheads			
Transport			
Indirect Labour			
Indirect Overheads			
Total	100%		

provide the following information (if Applicable)

TYPICAL PRICE ADJUSTMENT FORMULA INCLUDING INTERVALS

SUBMITTED DOCUMENTATION IN SUPPORT OF A REQUEST FOR A PRICE ADJUSTMENT

SOURCE OF RAW MATERIAL	
DESCRIPTION	COUNTRY OF ORIGIN
Raw materials	

ASSOCIATED RISKS	
RISK CATEGORY	RISK MITIGATION
Economic:	
Security of Supply	
Supply and Demand	
Rate of Exchange	
Operational:	
Capacity	
Logistics	