



AIRPORTS COMPANY
SOUTH AFRICA

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O.R. TAMBO INTERNATIONAL AIRPORT

TENDER NO.: ORT 5720/2019/RFP

**Bill of Quantities: Contractor Appointment for the Periodic Maintenance
of Bulkwater at O.R. Tambo International Airport**

PAYMENT REFERS TO	ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SABS			GENERAL REQUIREMENTS AND PROVISIONS				
1200 A							
	110.02		Scheduled time-related items:				
PSA		.01	Time-related preliminary and general charges	-	1	Prov sum	
8.2.2			A charge, the amount of which varies in accordance with the attending of meetings, adjusted in accordance with the provisions of the Contract.				
	110.02		Assess condition of existing infrastructure required for works. i.e. bulk water meters, PRV's, key isolation valves etc.				
			Inspections conducted as required by the Service Manager				
		.01	Pipe Fitter (Artisan)	hr	144		
		.02	Semi Skilled	hr	144		
		.03	Welder	hr	144		
PSA	110.04		Prime Cost Sums:				
8.6		.01	Additional tests required by the Service Manager	-	1		Rate only
PSA	110.05		Location and protection of existing services:				
8.9		.01	Hand excavation necessary for locating and exposing existing services in all materials:				
		.01	In all other areas	m ³	39		
PSA	110.07		Compliance with OHS Act and Regulations (including the Construction Regulations, 2014	-	-	sum	
8.10		.01	Provision for direct costs incurred for obtaining all personal and vehicle permits:				
		.01	Airside Induction courses and permits	PC Sum	1		
TOTAL SECTION 1200 A CARRIED TO SUMMARY							

PAYMENT REFERS TO	ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SABS							
1200 A			DAYWORKS				
PSA	110.08		Vehicles, plant and equipment				
8.7							
		.01	Generator and lighting system	hr	144		
		.02	Air compressor with tools, jackhammers etc.	hr	144		
		.03	Dewatering Pumps A, AL AS SS Series	hr	144		
		.04	TLB excavation machine	hr	144		
		.05	Push sweeper	hr	144		
		.06	Wacker Rammer Compactor	hr	144		
		.07	Grooving machine	hr	144		
	110.09		Temporary traffic-control facilities:				
		.01	Flagmen x 2	Man-hr	144		
		.02	Portable STOP and GO-RY signs	No	2		
		.03	Traffic-Control Signs TG-series	No	2		
		.04	Moveable barricade/road sign combination	No	5		
		.05	Traffic Cones TD4	No	10		
		.06	Plastic jersey barriers	No	5		
	110.10		Data Logging				
		.01	Supply / Hire data logging equipment to enable the logging of flow etc. (loggers to meet specifications)	No	9		
		.02	Supply / Hire data logging equipment to enable the logging of pressure including pressure sensor but excluding fittings (loggers to meet specifications)	No	9		
TOTAL SECTION B CARRIED TO SUMMARY							

PAYMENT REFERS TO	ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SABS							
1200 DB	142.00		EARTHWORKS (PIPE TRENCHES)				
			TRENCHES FOR WATER PIPES				
PSDB	142.01		Excavate in all materials for trenches,				
8.3.2			backfill, compact and dispose of surplus				
			material:				
		.01	Pipes over 125 mm dia up to 400 mm dia for depths:				
		.01	Up to 1,0 m	m	150		
		.02	Over 1,0 m up to 2,0 m	m	105		
PSDB	142.02		Extra over item 142 01.01 and 142 01.02 above for:				
8.3.2		.01	Intermediate excavation	m ³	18		
		.02	Hard excavation	m ³	12		
PSDB	142.03		Excavate and dispose of unsuitable				
8.3.2			material from trench bottom	m ³	12		
PSDB	142.04		Excavation ancillaries:				
8.3.3		.01	Make up deficiency in backfill material:				
		.01	From other necessary excavations on site	m ³	140		
		.02	Compaction in road crossings	m ³	70		
		.03	Reinstatement of concrete surface 25 Mpa	m ³	18		
		.04	Asphalt on road crossing	t	5		
		.05	Paving	m ²	50		
		.06	Isolate section of network	No	25		
		.07	Scour section of network	No	20		
TOTAL SECTION 1200 DB CARRIED TO SUMMARY							

PAYMENT REFERS TO	ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SABS	210.00		MEDIUM-PRESSURE PIPELINES				
1200 L							
			Maintenance of Existing Infrastructure				
			Required for Works				
PSL	210.02		Supply, lay flexible pipe complete with				
8.2.1			couplings:				
		.01	SABS 966 rubber-ring coupled uPVC				
			class 16 pressure pipes:				
		.01	450 mm dia	m	50		
		.02	350 mm dia	m	50		
		.03	300 mm dia	m	50		
		.04	200 mm dia	m	207		
		.05	160 mm dia	m	105		
		.06	90 mm dia	m	100		
PSL	210.03		Supply, joint and fix pipes suspended				
8.2.2			from on and including from hangers and brackets				
		.01	Galvanised Steel pipes				
		.01	350 mm dia	m	35		
		.02	200 mm dia	m	147		
		.03	150 mm dia	m	65		
		.04	108 mm dia	m	71		
		.05	90 mm dia	m	89		
PSL	210.04		Supply, joint and fix pipes to walls				
8.2.3		.01	Galvanised Steel pipes				
		.01	350 mm dia	No	8		
		.02	200 mm dia	No	8		
		.03	150 mm dia	No	14		
		.04	90 mm dia	No	21		
CARRIED FORWARD							

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
PSL	210.05	Supplying laying and installation of uPVC				
8.2.4		pressure pipe specials complete with couplings:				
	.01	Bends:				
	.01	160 mm dia x 90°	No	20		
	.02	Tees:				
	.01	160 mm dia x 160 mm dia	No	15		
	.03	End caps				
	.01	160 mm dia	No	8		
	.04	Flange adaptors				
	.01	160 mm dia flanged coupling to	No	19		
PSL	210.06	Supplying and installation of galvanised steel pipes				
8.2.5		specials complete with couplings:				
	.01	Bends:				
	.01	350 mm dia	No	8		
	.02	250 mm dia	No	18		
	.03	160 mm dia	No	20		
	.04	90 mm dia	No	12		
	.05	Tees				
	.01	315 mm dia	No	3		
	.02	250 mm dia	No	12		
	.03	150 mm dia	No	48		
	.04	90 mm dia	No	8		
CARRIED FORWARD						

SECTION 1200 L							
PAYMENT REFERS TO	ITEM NO		DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			Brought forward				
PSL							
8.2.5	210.06	.06	Reducing tees:				
(cont)							
		.01	315 mm dia x 200 mm dia	No	1		
		.02	200 mm dia x 150 mm dia	No	2		
		.03	150 mm dia x 90 mm dia	No	2		
		.04	108 mm dia x 90 mm dia	No	4		
		.07	Isolating/butterfly valves				
		.01	350 mm dia	No	5		
		.02	200 mm dia	No	5		
		.03	150 mm dia	No	5		
		.05	90 mm dia	No	5		
PSL	210.07		Supply and replace, pipework and flanges				
8.2.6			fittings, valves, controls and cabling	No	8		
			in reservoir station and chambers.				
TOTAL SECTION 1200 L CARRIED TO SUMMARY							

SECTION 1200 PSL								
PAYMENT REFERS TO	ITEM NO			DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SABS	PSL			<u>PRESSURE MANAGEMENT</u>				
1200								
PSL				Identify existing pressure zones				
10.1.1								
		.01		Delineate pressure zones	Sum	1		
		.02		Field investigations to confirm pressure zones	Sum	1		
PSL				O&M on Existing Pressure Zones				
10.1.2								
		.01		Clean and maintain chambers	No	30		
				TOTAL SECTION F CARRIED TO SUMMARY				

SUMMARY

DESCRIPTION: **ORTIA PERIODIC BULKWATER LINE MAINTENANCE**

SUMMARY OF SCHEDULES OF QUANTITIES

TOTAL

SECTION 1200A	:	PRELIMINARY AND GENERAL	R	
SECTION 1200A	:	DAYWORKS	R	
SECTION 1200DB	:	EARTHWORKS (PIPE TRENCHES)	R	
SECTION 1200L	:	MEDIUM-PRESSURE PIPELINES	R	
SECTION PSL	:	ACTIVE LEAK DETECTION	R	
SECTION PSL	:	PRESSURE MANAGEMENT	R	
TOTAL OF SCHEDULES OF QUANTITIES			R	
<u>CALCULATION OF TENDER SUM</u>				
CONTINGENCIES (ADD 10% OF TOTAL OF SCHEDULES OF QUANTITIES)			R	
SUBTOTAL			R	
VALUE-ADDED TAX (VAT) The tenderer shall add 15% of the subtotal for value-added tax			R	
TENDER SUM CARRIED TO FINAL SUMMARY			R	