

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
<b>A1</b>		<b>SECTION A: PRELIMINARY AND GENERAL Fixed-charge items</b>				
A1.1	SANS 1200A 8.3.1	Contractual requirements	Sum	1		
A1.2	SANS 1200A 8.3.2.3	Establish facilities on the Site	Sum	1		
A1.2.1		Facilities for the Contractor including offices, storage sheds, ablution and latrine facilities, tools and equipment, water supplies, electric power, communications, setting out of Works, and access	Sum	1		
A1.2.2		Facilities for the Engineer including furnished offices, computers, carport, nameboards.	Sum	1		
A1.3	SPEC AO	<b>Health and Safety:</b>				
A1.3.1		General safety obligations	Sum	1		
A1.3.2		Risk assessment	Sum	1		
A1.3.3		Preparation of health and safety plan	Sum	1		
A1.3.4		Health and safety specialist	Sum	1		
A1.3.5		Training	Sum	1		100 000,00
<b>A2</b>		<b>Time-related items:</b>				
A2.1	SANS 1200A 8.4.1	Contractual requirements	Sum	1		
A2.2	SANS 1200A 8.4.2.3	Maintenance of facilities on site for:				
A2.2.1		Contractor	Sum	1		
	SANS 1200A 8.4.2.3	Existing Services (Temporary Works) - Dealing with Sewer	Sum	1		
A2.3	SANS 1200A 8.4.3	Supervision for duration of contract	Sum	1		
A2.4	SANS 1200A	Company and head office overhead costs	Sum	1		
<b>A3</b>		<b>Sums stated provisionally by Engineer</b>				
	PSA8-4					
A3.1		Removal of unknown existing services not indicated on drawings	Provisional Sum			250 000
A3.2		Relocation of existing services not indicated on drawings	Provisional Sum			300 000
A3.3		Provision for minor alterations to existing structures	Provisional Sum			150 000,00
A3.4		Electrical supply connection	Provisional Sum			200 000
A3.5		Provision for a Community Liaison Officer (CLO) throughout the duration of the Contract	Provisional Sum			60 000
<b>A4</b>	PSA8-6	<b>Daywork</b>				

## Section A: Preliminary and General

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount	
						R	c
A4.1		Labour:					
A4.1.1		Skilled labour	h	80			
A4.1.2		Semi skilled labour	h	120			
A4.1.3		Unskilled labour	h	200			
A4.2		Materials:					
A4.2.1		Allow for net cost of goods or materials actually used		Provisional Sum			50 000
A4.2.2		Percentage mark up on Item A4.2.1 (State % and extend as an amount)	%	50 000			
A4.3		Contractors own plant		Provisional Sum			
A4.4		Hired plant		Provisional Sum			
A4.4.1		Percentage mark up on Item A4.4 (State % and extend as an amount)	%	75 000,00			
<b>A5</b>	PSA8-8	<b>Dealing with existing services:</b>					
A5.1		Locate, and excavate by hand in soft material to expose existing services	m <sup>3</sup>	10			
<b>A6</b>	PSA8-10	<b>Dealing with water</b>					
A6.1		Dealing with subsurface water	Sum	1			
<b>TOTAL SECTION A: Carried to Summary</b>							

## Section B: Site Clearance and Earthworks

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
<b>B1</b>		<b>SECTION B: SITE CLEARANCE AND EARTHWORKS</b>				
		<b>Site clearance</b>				
B1.1	SANS 1200 C 8.2.1	Clear and grub	m <sup>2</sup>	200		
B1.2	SANS 1200 C 8.2.10	Remove topsoil to nominal depth of 150 mm and stockpile	m <sup>2</sup>	200		
<b>B2</b>		<b>Excavation</b>				
B2.1	SANS 1200D 8.3.3	Restricted excavation:  Excavate in all materials and use for backfill around structures or stockpile or dispose as ordered on site				
B2.1.1		RAS/WAS pump station	m <sup>3</sup>	53		
B2.1.2		Secondary Settling Tank	m <sup>3</sup>	150		
B2.1.3		Chlorine Contact Tank	m <sup>3</sup>	25		
B2.1.4		Miscellaneous Structures		53		
B2.2		Extra over Items B2.1.				
B2.4	SANS 1200D 8.3.5	Extra excavation in all materials to provide working space around structures	m <sup>3</sup>	330		
B2.5	PSD8-7	Extra over for importation of approved granular material (cohesionless material) for backfill against structures	m <sup>3</sup>	300		
<b>B4</b>		<b>Finishing</b>				
B4.1	PSD8-8	Topsoiling to a thickness of 150 mm	m <sup>2</sup>	2 020		
<b>TOTAL SECTION B: Carried to Summary</b>						

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
<b>C1</b>		<b>SECTION C: HEAD OF WORKS</b>				
C1.1		Supply and installation of 100mm x 100mm HDPE sluice gate	No	4		
C1.2		Supply and installation of 1000mm x 800mm HDPE sluice gate	No	4		
C1.3		Supply and installation or refurbishment, testing of Mechanical screen as per the on-site specific screen	Sum	1		
C1.4		Supply, installation or new 500KVA transformer at the head of works with full metering unit	sum	1		
C1.5		Supply, Installation and commissioning of new grit pump and motor as per the on-site specific meter	Sum	2		
C1.6		Supply and installation of grit removal pump				
C1.7		Supply, install and commission new ultrasonic flowmeter	Sum	1		
C2		Refurbish and make good the existing Head of works, desludging and re-calibrating the parshall flume	Sum	1		
C2.1		Concrete cutting and making provision for installation of 1000mm x 8000mm sluice gate for secondary grit motor	Sum	1		
C2.2		Supply and install secondary grit removal pump and associated electrical pump (Site Specification)	Sum	1		
<b>TOTAL SECTION C: Carried to Summary</b>						

## Section E: RAS/WAST Pump Station

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
D1		<b>SECTION D: RAS/WAS PUMP STATION</b>				
D1.1		Refurbishment of existing machanical screw pump mechanism	No	2		
D1.2		Supply, install and testing and commissioning of new screw pump and motor as per the pump on-site specification	No	2		
D1.3		Refurbishment of pump house, masonry, painting, installation of new ceiling, floor and doors (Supply and instal)	Provisional Sum			380 000,00
D1.4		Supply and Installation of new 1 200mm x 800mm HDPE sluice gate.	No	3		
<b>TOTAL SECTION D: Carried to Summary</b>						
		<b>SECTION E: AEROBIC AND ANAEROBIC BASIN</b>				
E1		Supply, installation, testing and commisioning of new aeration and Motor as per the on-site specification	No	2		
E1,1		Refurbishment of on-site specified Aerator Motor and Pumps	No	2		
E1.2		re-construction and development of new overflow weir as per site instruction	No	1		
E1.3		Supply and installation of new ultrasonic flowmeter	No	1		
E1.4		Desludging of aged sludge and de-vegetation of the existing aerobic and anaerobic basin.	SUM	1		
E1.5		Supply and installation of new 1000mm x 1000mm HDPE sluice gates.	No	4		
<b>TOTAL SECTION E: Carried to Summary</b>						

## Section C: Secondary Settling Tank

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
<b>SECTION F: SECONDARY SETTLING TANK</b>						
F1		Refurbishment of Sides of circular bridge platform	No	2		
F1.1		Refurbishment of scum-overflow component	No	2		
F1.2		Supply and installation of new v-notch weir.	No	2		
F1.3		Supply, installation and commissioning of rotatory motor	No	2		
F1.4		Refurbishment and upgrading of the WAS pump as per the onsite pump specification	Provisional sum			500 000,00
F1.5		Desludging and making good the aged sludge in the sludge in the settling tank.	m <sup>3</sup>	29		
<b>TOTAL SECTION F: Carried to Summary</b>						
<b>SECTION G: DISINFECTION ROOM AND CONTACT CHANNELS</b>						
G1		Supply and Installation of new ultrasonic flowmeter	No	1		
G1.1		Supply and install of new chlorine gas pump as per the pump specified on site	No	1		
G1.2		Refurbishment of pump house, masonry, painting, installation of new ceiling, floor and doors	Provisional Sum			
G1.3		Desludging and clearing of aged sludge in the chlorine contact channels	m <sup>3</sup>	15		
<b>TOTAL SECTION G: Carried to Summary</b>						

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
<b>SECTION H: APPURTENANCE, FENCING AND NEW GENERATOR</b>						
H1		Supply and Installation of new Generator 500KVA	No	1		
H2		Supply and Installation of new clear view fence	m	850		
H3		Refurbishment of process controller house, masonry, painting, installation of new ceiling, floor and doors and making Good including Showers and sanitary systems	Provisional Sum			500 000,00
H4		Designed and Construction of overhead structure at the head of works	Provisional Sum			600 000,00
H5		Electrical instrumentation of ALL mechanical components and installation of electrical pannels at the WWTW	Provisional Sum			
<b>TOTAL SECTION H: Carried to Summary</b>						
<b>SECTION I: REFURBISHMENT OF PUMP STATION</b>						
I1		Supply, installation and Testing of new submersible pumps at the pump station as per the pump specification on site	No	2		
I1.2		Supply and installation of new 250KVA Transformer will associated electrical pannels	No	1		
I1.3		Construction of robust housing with steel doors for housing of electrical pannels	Provisional Sum			800 000,00
I1.4		Cleaning and desludging of suldge trying	m <sup>3</sup>	120		
<b>TOTAL SECTION I: Carried to Summary</b>						
<b>SECTION J: PROFESSIONAL DUTIES</b>						
J1		Development of sludge management Plan and Wastewater Risk Abatement Plan (W <sup>2</sup> RAP)	No	1		
J2		Survey and develop process as-built drawings	No	1		
J3		Development of Operational and Maintenance Manuals	No	1		
J4		Design of overhead structure at the head of works to be constructed in item H4 & I1,3	No	1		
<b>TOTAL SECTION J: Carried to Summary</b>						

<b>SUMMARY OF SECTIONS</b> <b>Refurbishment of Theunissen WWTW</b>		
SECTION A:	PRELIMINARY AND GENERAL	R
SECTION B:	SITE CLEARANCE AND EARTHWORKS	R
SECTION C:	HEAD OF WORKS	R
SECTION D:	RAS/WAS PUMP STATION	R
SECTION E:	AEROBIC AND ANAEROBIC BASIN	R
SECTION F:	SECONDARY SETTLING TANK	R
SECTION G:	DISINFECTION ROOM AND CONTACT CHANNELS	R
SECTION H:	APPURTENANCE, FENCING AND NEW GENERATOR	R
SECTION I:	REFURBISHMENT OF PUMP STATION	R
SECTION J:	PROFESSIONAL DUTIES	R
	TOTAL OF PRICED ITEMS	R
	Allow 10% contingencies (This amount to be expended as directed by the Client and to be deducted in whole or in part if not required)	R
	Allow 8% (Supervision and closeout )	R
	NET TOTAL OF TENDER	R
	Add 15% for Value Added Tax	R
	GROSS TOTAL OF TENDER Carried to Tender Form	R
Signed on behalf of Tenderer: .....		