

Contract No:

Contract Name: Construction of Platform for Water Demonstration Hub

at Scientia campus, CSIR

ITEM NO	PAYMENT SANS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
1.00	1200A	PRELIMINARY AND GENERAL (limited to 10%)				
1.1	8.30	FIXED - CHARGE ITEMS				
1.1.1	8.3.1	Contractual Requirements	Sum	1		
1.1.2	PSA 4.5	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Sum	1		
		Submission of the Health and Safety File	Sum	1		
		Establish Facilities on the Site :				
		a) Facilities for Engineer (SABS 1200 AB)	Sum	1		
	PSA 8.3.2	b) Facilities for Contractor	Sum	1		
1.1.6	8.3.4	Remove Contractor's Site establishment on completion of construction	Sum	1		
1.2	PSA 8.2.2	TIME-RELATED ITEMS				
1.2.1	8.4.1	Contractual Requirements	Sum	1		
	PSA 8.2.2	Operation and maintenance of facilities on the Site for duration of construction, except where otherwise stated:				
	PSA 8.2.2	a) Facilities for Engineer for duration of construction (SANS 1200 AB)				
1.2.2		(vi) Survey assistants and materials	Sum	1		
1.2.4	PSA 8.13	Compliance with environmental requirements	Sum	1		
	PSA 8.2.2	b) Facilities for Contractor for duration of construction, except where otherwise stated				
1.2.6		(i) Office and storage sheds	Months	3		
1.2.7	PSA 8.8	(iv) Portable latrines- maintenance	Months	3		
1.2.8		(v) Tools and equipment	Months	3		
1.2.9						
1.2.10	PSA 8.4.3	Supervision for duration of construction	Months	3		
1.2.11	8.4.4	Company and Head Office overhead cost	Months	3		
1.2.13	8.4.5	Provision of Security Personnel	Month	3		
1.3	8.5	SUMS STATED PROVISIONALLY BY ENGINEER				
1.3.1	PSG 8.20	a) Acceptance testing of material and workmanship called for by the Engineer at a nominated laboratory	Prov. Sum	1		
1.3.2		b) Overheads, charges and profit on item 1.3.1	%	0		
		Existing Services				
1.3.3		Relocation of existing Services	Sum	1		
TOTAL CARRIED TO SUMMARY						-

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Item Ref	Payment Refers SANS	Description	Unit	Quantity	Rate	Amount
		SECTION C:				
C1.0	1200 C	SITE CLEARANCE				
C1.1	8.2.1	Clear and grub	ha	0.035		
	8.2.2	Remove and grub large trees and tree stumps of girth				
C1.2		1 m 2 m	No.	1.0		
C1.3		2 m 3 m	No.	0.0		
C1.4	8.2.4	Reclear surfaces (provisional) (where ordered by Engineer)	ha	0.05		
C1.5	8.2.5	Take down existing fence	Km	0.1		
C1.6	8.2.8	Demolish and remove structure, buildings and dismantle steelwork etc.	Sum	1.0		
C1.7	8.2.9	Cart materials and debris and dump to the nearest landfill (Provisional)	t.km	10		
C1.8	8.2.10	Remove Topsoil to Nominal Depth 150 mm (or other Stated Depth), Stockpile, and Maintain	m ²	42		
C2.0	1200 D	EARTHWORKS				
	8.3.2	Bulk excavations				
C2.1		a) i) Excavate in all materials, compact formation and use material for embankment or backfill or dispose, as ordered :	m ³	125		
		b) Extra over items 8.3.2a) above for:				
C2.2		i) Intermediate materials	m ³	12		
C2.3		ii) Hard rock materials	m ³	3		
C2.6	8.3.8.2	Dealing with services that are at risk because of the construction of earthworks (Provisional)	P/Sum	1		
	1200 DM	EARTHWORKS (roads, subgrade)				
	8.3.3	Treatment of road bed				
C2.7		a) Treatment of road-bed. Road- bed Preparation (to a depth 150 mm) and compaction of material Minimum of 90% of Mod AASHTO maximum density	m ³	50.00		
C2.8	8.3.5	ii) 150mm G7 or better natural material compacted to 93% Mod AASHTO for laying inside the pond	m ³	50		
	1200 ME	Subbase from commercial sources				
C2.9	8.3.3	i) 150mm G5 natural material compacted to 95% Mod AASHTO for laying inside the pond	m ³	50		
	1200 MF	Base from commercial sources				
C2.10	8.3.3	a) Construct subbase layer, 150 mm thick, C4 material compacted to 100% Mod AASHTO Max Dry Density	m ³	50		
C2.11	8.3.5	Process subbase material by stabilization	m ³	50.00		
	8.3.8	Stabilizing agent				
C2.12		b) Portland cement at 3%	t	3.30		
CARRIED FORWARD						R -

BROUGHT FORWARD						R	-
C3.0	1200 G	CONCRETE (STRUCTURAL)					
	8.2	Formwork					
	8.2.2	Smooth vertical formwork Walls					
C3.1		Slab	m ²	18.0			
C3.2		Sump	m ²	12.0			
C3.3		Apron	m ²	0.0			
C3.4		Ramp	m ²	18.0			
C3.5		Retaining Wall	m ²	40.0			
	8.3	Reinforcement					
C3.6	8.3.1	High tensile Steel with diameters ranging from 8mm up to 32 mm	t	4.20			
C3.7		a) High-tensile welded mesh reinforcement REF 617 in Concrete Pond lining and access ramp	m ²	544.0			
	PSG 8.4	CONCRETE					
	8.4.1	a) Strength Concrete Grade 35 MPa/19mm to:					
C3.8		Slab	m ³	74.0			
C3.9		Sump	m ³	2.5			
C3.10		Apron	m ³	0.0			
C3.11		Ramp	m ³	16.0			
C3.12		Retaining Wall	m ³	3.0			
	8.4.4	Unformed Surface Finishes					
		a) Wood-floated finish to:					
C3.13		Slab	m ²	260.0			
C3.14		Sump	m ²	2.0			
C3.15		Apron	m ²	0.0			
C3.16		Ramp	m ²	55.0			
C3.17		Retaining Wall	m ²	10.0			
	8.5	Joints					
C3.18		Formed construction Joint sealed with SIKAFLEX PRO-3 WF polyurethane sealant or similarly approved with 8mm dia polycord backing strip as per detail	m	128.0			
C3.19	PSG 8.9.1	Supply and Install 0,25 mm thick HDPE lining for all the ponds.	m ²	275			
CARRIED FORWARD						R	-

BROUGHT FORWARD					R	-
C4.0	1200 DB	PIPELINES LAYING				
	8.3.2.a	Excavation Excavate in all materials for trenches, backfill and compact to 93% Mod AASHTO Density, including disposal of surplus and unsuitable material as directed for :				
		Pipes up to 200mm dia for the following depths: Exceeding but Not Exceeding				
C4.1		.01) 0.0m 1.0 m	m³	15.00		
C4.2		.02) 1.0 m 2.0 m	m³	5.00		
	8.3.2.b	Extra-over item above for:				
C4.3		.01) Intermediate excavation	m³	5.00		
C4.4		.02) Hard rock excavation	m³	2.00		
C4.5	8.3.2 c	Excavate and dispose of unsuitable material from trench bottom (Provisional)	m³	1.00		
	8.3.3	Excavation ancillaries				
	8.3.3.1	Make up deficiency in backfill material (Provisional)				
C4.6		.01) From other necessary excavations on site	m³	10.00		
C4.7		.02) by importation from commercial	m³	0.00		
C4.8	8.3.4	a) Shore trench opposite structures or services	m	2.00		
C4.9		b) Temporarily works	Sum	1.00		
C4.10	8.3.5	Existing services that intersect or adjoin a pipe trench	m	5.00		
	1200 LB	Bedding				
	8.2.2.3	Supply only of bedding by Importation from Commercial Source				
C4.11		.01) Selected granular material	m³	20.00		
C4.12		.02) Selected fill material	m³	60.00		
C5.0	1200LD	SEWER RETICULATION SEWERS				
	8.2.1	Supply, handle, lay and bed pipes on flexible pipe bedding complete with testing of Class 34 Solid wall uPVC pipeline.				
C5.1		.01) 110mm diameter pipe	m	65.00		
C5.2		.02) 160mm diameter pipe	m	5.00		
	8.2.2	Pipe specials Extra-over Items 8.2.2.3 above for supplying, laying and bedding of specials complete with couplings for: PVC-u bends Class 16 45°				
C5.3		110 mm dia	No	3.00		
C5.4		90° 110 mm dia	No	4.00		
C5.5		PVC-u 45° Y- Junctions (Class 16) 160 mm dia	No	1.00		
	8.2.3	MANHOLES Supply, construct manholes 1250mm diameter complete with HDPE step irons and medium duty concrete cover and frames for following depths as per the engineer's design				
		Exceeding but Not Exceeding				
C5.5		.01) Up to 1.5 m	No.	3		
C5.6		.02) 1.50 to 2.5 m	No.	1		
C5.7		Breaking up existing sewer and Connection to existing sewer	Sum	1		
CARRIED FORWARD					R	-

BROUGHT FORWARD						R	-
C5.8	1200 L	MEDIUM- PRESSURE PIPELINES Supply handle, lay and bed pipes on flexible pipe bedding complete with coupling, testing and disinfecting .01) 110mm uPVC Class 12 Pipe specials Extra-over Items for supplying, laying and bedding of specials complete with couplings for: PVC-u bends Class 16 45° 110 mm dia 90° 110 mm dia Valves Extra-over Items C5.9 for supplying, laying and bedding of valves: 110ND handwheel cast iron (non-rising stem) resilient seal gate valve flanged on both ends. Grating 38x38mm square mesh pattern, 38mm Deep open grid anti-slip grey coloured fibre glass grating, complete with angle iron frame and the fixing components a) Cable trench b) Grid inlets frame	m	50.00			
	8.2.1						
	8.2.2						
C5.9			No	2.00			
C5.10			No	4.00			
C5.11			No	1			
C5.12			m²	5			
C5.13			m²	0.75			
TOTAL CARRIED TO SUMMARY						R	-

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SUMMARY		
SECTION	DESCRIPTION	AMOUNT
SECTION 1	PRELIMINARY AND GENERAL	R -
SECTION 2	CIVIL WORKS	R -
NETT TOTAL OF TENDER		R -
ALLOWANCE FOR VAT 15.0%		R -
TOTAL TENDER SUM		R -