



**DEPARTMENT OF WATER AND SANITATION**

**DWS20-0226WTE**

**THE MANUFACTURE, SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND SITE SUPERVISION OF MODIFIED DELIVERY PIPEWORK AND INSTALLATION OF SPARE CONTROL VALVES AT DRAKENSTEIN PUMPING STATION, WESTERN CAPE. ONLY RESPONDENTS WITH CIDB GRADING 6ME OR HIGHER ARE ELIGIBLE TO BID**

**C2.2 BILL OF QUANTITIES**

**PRICING SCHEDULE – FIRM PRICES**

**SBD 3.1**

**(PURCHASES)**

**NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED**

**IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT**

Name of Bidder.....	Bid number.....
Closing Time 11:00 .....	Closing date .....

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**1. OFFER TO BE VALID FOR 120 DAYS FROM CLOSING DATE OF BID**

**a.1 Schedule for Manufacturing**

**Refurbishment of Drakenstein Pumping Station – Delivery Pipework**

Item No. *	Description	Drg. No.	Qty	Nominal Size (NB)	Mass (kg) per item	Cost per Item	Total cost
1	EXPANDER PIPE		4	800-900			
2	STRAIGHT PIPE		4	900			
3	SPOOL PIECE		4	900			
4	VALVE SUPPORT		8	N/A			
5	FLANGE ADAPTOR		4	900			
6	SPHERICAL VALVE MODIFICATION (HYDRAULIC EQUIPMENT INCLUDED)		5	900			
7	BALL VALVE		4	25			
8	HEXAGON NIPPLE		4	25			
9	GASKET		8	150			
10	GASKET		8	900			
11	STUD: M52 × 605 c/w 4 NUT & 4 WASHERS		56	N/A			
12	HEX SCREW: M52 × 200 c/w NUT & 2 WASHERS		56	N/A			
13	HEX SCREW: M45 × 220 c/w NUT & 2 WASHERS		224	N/A			
14	HEX SCREW: M24 × 100 c/w NUT & 2 WASHERS		64	N/A			
Carried forward (Manufacturing Cost)							

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Brought forward (Manufacturing Cost)							
15	HEX SCREW: M45 × 260 c/w NUT & 2 WASHERS		112	N/A			
16	HEX SCREW: M52 × 240 c/w NUT & 2 WASHERS		168	N/A			
17	HEX SCREW: M36 × 90 c/w 1 WASHERS		24	N/A			
18	ANCHOR ROD: M30 × 380 c/w 2 NUTS & 2 WASHERS		48	N/A			
19	ADHESIVE FOIL CAPSULE: M30 × 270		48	N/A			
20	PROVISIONAL ITEM: NEW HYDRAULIC CYLINDERS		5	N/A			
21	RAISED FACE MILD STEEL BLANK FLANGE: OD = 1185 WITH 28 HOLES Ø48 DRILLED EQUI-SPACED ON 1090 P.C.D. AND A FLANGE THICKNESS OF 95 mm.		2	900			
22	RAISED FACE MILD STEEL BLANK FLANGE: OD = 1250 WITH 28 HOLES Ø56 DRILLED EQUI-SPACED ON 1140 P.C.D. AND A FLANGE THICKNESS OF 95 mm.		1	900			
23	SUBMERSIBLE WATER DRAINAGE PUMP C/W ONE 15 METER DETACHABLE LAYFLAT HOSE: 230 V, SINGLE PHASE PUMP WITH AN OPPERATING POINT OF 9 METERS WATER HEAD AND 50 m <sup>3</sup> /h FLOW RATE.		1	N/A			
24	PROVISIONAL ITEM: NEW 16 TON CRANE CRAB WITH HOIST.		1	N/A			
SUB-TOTAL (Manufacturing Cost)							

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**a.2 Schedule for Corrosion Protection**

**Refurbishment of Drakenstein Pumping Station – Delivery Pipework**

Item No. *	Description	Drg. No.	Qty	Nominal Size (NB)	Surface Area (m <sup>2</sup> ) per item	Cost per Item	Total cost
1	EXPANDER PIPE		4	800-900	± 7,0		
2	STRAIGHT PIPE		4	900	± 5,5		
3	SPOOL PIECE		4	900	± 3,5		
4	VALVE SUPPORT		8	N/A	± 1,5		
5	PROVISIONAL ITEM: NEW HYDRAULIC CYLINDERS		5	N/A	± 1,6		
6	RAISED FACE MILD STEEL BLANK FLANGE: OD = 1185 WITH 28 HOLES Ø48 DRILLED EQUI-SPACED ON 1090 P.C.D. AND A FLANGE THICKNESS OF 95 mm AND C/W 1 OFFTAKE FOR WATER FILLING AND ONE OFFTAKE FOR AIR RELEASE.		2	900	± 2,8		
7	RAISED FACE MILD STEEL BLANK FLANGE: OD = 1250 WITH 28 HOLES Ø56 DRILLED EQUI-SPACED ON 1140 P.C.D. AND A FLANGE THICKNESS OF 95 mm AND C/W 1 OFFTAKE FOR WATER FILLING AND ONE OFFTAKE FOR AIR RELEASE.		1	900	± 3,0		

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8	PROVISIONAL ITEM: NEW 16 TON CRANE CRAB WITH HOIST.		1	N/A	N/A		
SUB-TOTAL (Corrosion Protection Cost)							

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**a.3 Schedule for Transport cost (Including Packaging Against Damages)**

**Refurbishment of Drakenstein Pumping Station – Delivery Pipework**

Item No. *	Description	Drg. No.	Qty	Nominal Size (NB)	Mass (kg) per item	Cost per Item	Total cost
1	EXPANDER PIPE		4	800-900	± 517		
2	STRAIGHT PIPE		4	900	± 1039		
3	SPOOL PIECE		4	900	± 760		
4	VALVE SUPPORT		8	N/A	± 55		
5	SPHERICAL VALVE (HYDRAULIC EQUIPMENT INCLUDED) – From Kliphoek PS to workshop & Workshop to Drakenstein PS		5	900	± 12400		
6	MISCELLANEROUS ITEMS (Gaskets, grease, grout, lubricant etc.)		sum	N/A	N/A		
7	PROVISIONAL ITEM: NEW HYDRAULIC CYLINDERS		5	N/A	N/A		
8	RAISED FACE MILD STEEL BLANK FLANGE: OD = 1185 WITH 28 HOLES Ø48 DRILLED EQUI-SPACED ON 1090 P.C.D. AND A FLANGE THICKNESS OF 95 mm AND C/W 1 OFFTAKE FOR WATER FILLING AND ONE OFFTAKE FOR AIR RELEASE.		2	900	± 780		
9	RAISED FACE MILD STEEL BLANK FLANGE: OD = 1250 WITH 28 HOLES Ø56 DRILLED EQUI-SPACED ON 1140 P.C.D. AND A FLANGE THICKNESS		1	900	± 870		

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	OF 95 mm AND C/W 1 OFFTAKE FOR WATER FILLING AND ONE OFFTAKE FOR AIR RELEASE.						
10	SUBMERSIBLE WATER DRAINAGE PUMP		1	N/A	N/A		
11	PROVISIONAL ITEM: NEW 16 TON CRANE CRAB WITH HOIST.		1	N/A	N/A		
SUB-TOTAL (Transport)							

**Preliminaries and General and Site Work**

**Refurbishment of Drakenstein Pumping Station – Delivery Pipework**

Item No. *	Description	Qty	unit	Nominal Size (NB)	R/unit	Total cost
<b>a</b>	<b>Work in Contractors facilities</b>					
a.1	Manufacturing cost	1	sum	N/A	N/A	
a.2	Corrosion protection cost	1	sum	N/A	N/A	
a.3	Transport cost (Including packaging against damages)	1	sum	N/A	N/A	
TOTAL (SECTION A – WORK CONDUCTED IN CONTRACTORS FACILITIES)						
<b>b</b>	<b>Work on Site</b>					
b.1	Compliance to Environmental requirements	1	sum	N/A	N/A	
b.2	Compliance to Health and Safety requirements	1	sum	N/A	N/A	
b.3	Site establishment	1	sum	N/A	N/A	
b.4	Site de-establishment	1	sum	N/A	N/A	
b.5	Transport – (Work execution)	1	sum	N/A	N/A	
b.6	Spool piece Installation	4	off	900		
	Straight pipe Installation	4	off	900		

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b.7						
b.8	Flange adaptor Installation	4	off	900		
b.9	Expander pipe Installation - Include welding to existing pipe - Include installation of existing DN 150 Gate valve and Air valve - Include remedial corrosion protection.	4	off	800-900		
Carried forward (Section B – Work on Site)						
Brought forward (Section B – Work on Site)						
b.10	Spherical Valve Installation - Include installation of Hydraulic cylinder and power pack. - Include adjustment to valve support. - Include remedial corrosion protection.	4	off	900		
b.11	Valve Support Installation - Include adjustment and fitting to spherical valve. - Include drilling and grouting - Include remedial corrosion protection.	4	off	N/A		
b.12	Provisional Item: 16 ton crab and hoist - Include load testing	1	off	N/A		
SUB-TOTAL (SECTION B – WORK CONDUCTED ON SITE)						
<b>c.</b>	<b>Dayworks</b>					
c. 1	Artisan - Welder	100	Hours	N/A		
c. 3	Corrosion protection application	20	m <sup>2</sup>	N/A		
c.5	Skilled labour	100	Hours	N/A		
c.6	Semi-skilled labour	100	Hours	N/A		
SUB-TOTAL (SECTION C – DAYWORKS)						

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## SUMMARY OF COST

### REFURBISHMENT OF DRAKENSTEIN PUMPING STATION – DELIVERY PIPEWORK

ITEM NO	DESCRIPTION	TOTAL COST
<b>A</b>	SUB-TOTAL (Section A – Work Conducted in Contractors Facilities)	
<b>B</b>	SUB-TOTAL (Section B – Work Conducted on Site)	
<b>C</b>	SUB-TOTAL (Section C – Dayworks)	
<b>D</b>	SUB-TOTAL D (Section A + B + C) <b>(To be used as comparative offer)</b>	
<b>E</b>	Contingency of R 2,000,000.00 <b>(To be excluded when determining comparative offer)</b>	R 2 000 000
<b>F</b>	TOTAL (excl. VAT) (D + E)	
	15% VAT	
	TOTAL (Incl. VAT)	

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**SBD 3.1**

**PRICING SCHEDULE – FIRM PRICES  
(PURCHASES)**

**NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED**

**IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT**

Name of bidder.....	Bid number.....
Closing Time 11:00	Closing date.....

OFFER TO BE VALID FOR 120 DAYS FROM THE CLOSING DATE OF BID.

- Required by: .....
- At: .....
- Brand and model .....
- Country of origin .....
- Does the offer comply with the specification(s)? \*YES/NO
- If not to specification, indicate deviation(s) .....
- Period required for delivery .....
- Delivery basis .....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

\*\* "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

\*Delete if not applicable

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