

CONTRACT-1: GROUNDWATER INVESTIGATIONS & BOREHOLE DEVELOPMENT

ITEM NO.	PAYMENT	DESCRIPTION	UNIT	QTY	RATE (Rand)	AMOUNT (Rand)
11	PSPMC	<u>DRILLING AND TESTING OF BOREHOLES AND WELLPOINTS</u>				
		<u>PARTICULAR SPECIFICATION: DRILLING AND TESTING OF ODEX AND CONVENTIONAL BOREHOLES</u>				
		Also refer to drawing no. GEN 6/1				
		Preliminary and General				
11.1		Establishment of all plant, equipment and personnel to site	Sum	1	30000	30000
11.2		Set-up of drilling rig and equipment at each site	No	12	4750	57000
		Drilling Work				
11.3		(a) 273 mm ODEX drilling from 0 to 40 m	m	40	2880	115200
11.4		(b) 203 mm drilling from 25 to 80 m	m	80	640	51200
		Casing				
		Supply, deliver and install steel casing:				
11.5		(a) 254 mm ODEX casing	m	120	880	105600
11.6		(b) ODEX casing shoe	No	12	12500	150000
11.7		(c) 165 mm perforated steel casing	m		650	Rate only
		Miscellaneous				
		Supply, deliver and install the following:				
11.8	Gravel pack & cement plug	No	12	2500	30000	
11.9	Sanitary seal	No	12	1750	21000	
11.10	Temporary casings	Sum				
11.11	Installation of 12 mm dip-tube	No	12	1600	19200	
	Testing (Borehole Yields)					
11.12	Step drawdown	No	12	450	5400	
11.13	Step drawdown recovery	No	12	300	3600	
11.14	Constant discharge	No	12	450	5400	
11.15	Constant recovery	No	12	300	3600	
11.16	Standing time	days	15	4500	67500	
CARRIED FORWARD						

ITEM NO.	PAYMENT	DESCRIPTION	UNIT	QTY	RATE (Rand)	AMOUNT (Rand)
ITEM NO.	PAYMENT	DESCRIPTION	UNIT	QTY	RATE (Rand)	AMOUNT (Rand)
BROUGHT FORWARD						
11	PSPMC	<u>DRILLING AND TESTING OF BOREHOLES AND WELLPOINTS</u>	Each	2	3500	7000
11.17		<u>PARTICULAR SPECIFICATION: DRILLING AND TESTING OF ODEX AND CONVENTIONAL BOREHOLES</u> Testing (Borehole water Quality) For the laboratory testing of borehole water for quality as per RDP specs				
TOTAL CARRIED FORWARD TO THE SUMMARY						

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SCHEDULE 12: BH Pumps & Chambers

NATIONAL RESEARCH FOUNDATION (SARAO)

ITEM NO.	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		PART 12: BOREHOLE INSTALLATION				
	PD 2.0	PARTICULAR SPECIFICATION : PUMPS				
		Supply and Install submersible borehole pumps, complete with riser pipe and submersible cable to supply 1.0+1/s constant yeild				
12.1.1		1)SP17A-17 GRUNDFOS PUMP 380V	No.	-		
12.1.2		2) SP8A-44 GRUNDFOS PUMP 380V	No.	1	R 58 500.00	R 58 500.00
12.1.3		3) SP3A-52 GRUNDFOS PUMP 380V	No.	1	R 46 500.00	R 46 500.00
12.1.4		4) Supply and install a MacAfric Diesel Engine complete width base 90l Diesel tank, guard and concrete base (Size not on Hoffman website, custom build)	No.	1	R 300 000.00	R 300 000.00
		*Exclude transport and delivery			R 35 000.00	
		30KVa - Diesel				
12.2		Supply and install 12mm PVC pipe as dip tube including 12mm threaded GMS compression fitting and cap	No	2	R 900.00	R 1 800.00
12.3		Supply and install Brass identification tag	No	2	R 250.00	R 500.00
	SABS 1200 L	MEDIUM PRESSURE FITTINGS (4 OFF)				
		Refer to drawing no GEN 6/1				
12.4	8.2.5	Supply and place pipe, valves and specials (short pipe runs)				
		Discharge Pipe Work				
12.5.1		(1) 12mm copper compression fitting, male thread with Screw Cap	No	2	R 30.00	R 60.00
12.5.2		(2) 65mm D/F GMS elbow	No	3	R 125.00	R 375.00
12.5.3		(3) 65mm GMS pipe 500mm long TBE	No	3	R 245.00	R 735.00
12.5.4		(4) 65mm GMS Tee with 65X18 srewed reducer	No	2	R 215.00	R 430.00
12.5.5		(5) Pressure Gauge rated to 10 Bars 18mm male thread with isolating ball-cock.	No	2	R 420.00	R 840.00
CARRIED FORWARD						

ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BROUGHT FORWARD						
12.5.6		(6) 50mm Brass Water Meter with two 65x50 reducers	No	2	R 4 750.00	R 9 500.00
12.5.7		(7) 65mm GMS Barrel Nipple	No	3	R 44.00	R 132.00
12.5.8		(8) 65mm Brass Non Return Valve	No	2	R 785.00	R 1 570.00
12.5.9		(9) 65mm D/F Brass Gate valve	No	2	R 945.00	R 1 890.00
12.5.10		(10) Male Compression adaptor 65X 63 hdpe	No	2	R 145.00	R 290.00
12.5.11		(11) 100mm uPVC Drain pipe	No	2	R 150.00	R 300.00
		BOREHOLE PUMP HOUSE TYPE 1 AS PER THE DRAWINGS (require specifics on sizes, steel thickness)	No	2	R 125 000.00	R 250 000.00
		BOREHOLE PUMP HOUSE TYPE 2 AS PER THE DRAWINGS (require specifics on sizes, steel thickness)	No	1	R 125 000.00	R 125 000.00
12.13		Supply and lay underground cable to ESKOM connection point 25mm² 4 core	m	5 000	R 244.00	R 1 220 000.00
		**Installation of cable on site			R 250.00	
		**Transport of cable to site			R 18 500.00	
TOTAL CARRIED FORWARD TO THE SUMMARY FOR PART 12:						

ITEM NO.	DESCRIPTION	AMOUNT (E)
11	Drilling and Testing Boreholes	R671 700.00
12	Install BH Pumps & Chamber	R2 018 422.00
	SUB-TOTAL FOR WATER WORKS	R2 690 122.00
	Allow for 15% VAT	
	TOTAL AMOUNT CARRIED TO TENDER SUMMARY	