

ITEM NO	DISCRIPTION	UNIT	QTY	RATE	PRICE
	<b>DRILLING AND TESTING</b>				
1	Allow for the cost of transport all equipment	Item	1		R -
2	Moving of rig and re-establishment on site	No	2		R -
3	Drilling 165mm	m	100		R -
4	Steel Casing 177mm OD, 4mm Steel	m	20		R -
5	PVC casing (147mm OD, 127mm ID, slotted and gravel packed installed	m	100		R -
6	Drilling Log Report for each GPS site, including detailed geology and timing (penetration rate per meter of drilling)	No	1		R -
7	Borehole testing (12 hours step test, drawdown and recovery test SANS 241; chemical and biological laboratory test included)	No	1		R -
8	Borehole SANS 241 test reports and recommendations for production boreholes	No	1		R -
	<b>Sub-Total for Drilling and testing-carried to Summary</b>				R
	<b>PUMP INSTALLATION</b>				
9	Single Phase submersible pump minimum of 0.75Kw-230Volt motor capable of pumping a minimum 1000l/h at a head of 60m	No	1		Rate Only
10	Three Phase submersible pump minimum of 0.75Kw-380Volt motor capable of pumping a minimum 1000l/h at a head of 60m	No	1		Rate Only
11	Single Phase submersible pump minimum of 1.5Kw-230Volt motor capable of pumping a minimum 2000l/h at a head of 90m	No	1		Rate Only
12	Three Phase submersible pump minimum of 1.5Kw-380Volt motor capable of pumping a minimum 2000l/h at a head of 90m	No	1		R -
13	Allow connection to existing Main DB board including 15 Amp isolator, lightning errestors and labelling	No	1		R -
14	Pump control panel complete with circuit breaker, tghtning arrestors, starter, overload protection, low and high level sensor protection for borehole and tank (inter phasing) complete installed in a galvanised steel llokable box	No	1		R -
15	6mm² x 4 core Submersible pump cable in water/borehole	m	120		R -
16	6mm² x 4 core Submersible pump cable in ground including 1000mm excavation, back filling, compaction, ect.	m	200		R -
17	Cable termination of 6mm²x4 core cable	no	3		R -
18	6mm²x3 core in borehole	m	200		Rate Only
19	Cable termination of 6mm²x3 core cable	no	1		Rate Only
20	Allow for level control probes (high/low) complete installed in water tank inter phased with level protector of pump installation including all wiring etc	Item	1		R -
21	Allow for earth installation including earth spike etc.	Item	1		R -
22	Provide certificate of compliance of electrical installation	Item	1		R -
	<b>Sub-Total for Pump Installation -Carried to Summary</b>				R -
	<b>GALVANIZED ELEVATED WATER TANK STAND</b>				
23	Approved hot Dip galvanised steel 3 meters water tank stand, 5000 litre capacity plastick tank, All in accordance with the manufacture for tank to be designed by a registered Engineer, supply foundation designs, concrete tests, engineering certificate for foundations, tank and tank design.	No	1		R -
24	Allow for testing of bank by filling to maximum service leve	Item	1		R -
	<b>Sub-Total for Galvanised elevated tank-Carried to Summary</b>				R -

	<b>PIPE WORK</b>				
	<u>Water connection</u>				
25	Excavation, search for existing water lines, cut in and connect new pipe including turning off and draining the sytem as necessary and making good (all fittings elsewhere).	No	1		R -
	<u>Galvanised steel pipess with screwed and socketed joints</u>				
26	20mm Pipes	m	1		R -
27	32mm Pipes	m	1		R -
28	50mm Pipes	m	1		R -
	<u>Extra over galvanised steel pipes with screwed and socketed joints fittings</u>				
29	32mm Bend	No	4		R -
30	32mm Tee	No	1		R -
31	32mm Bush	No	2		R -
32	32X20mm Reducer	No	3		R -
33	50mm Bend	No	2		R -
34	50mm Bush	No	2		R -
35	50mm Flange adaptor	No	2		R -
36	75x50mm Reducer	No	2		R -
37	80mm Bend	No	4		R -
38	80x50mm Reducer	No	2		R -
	<b><u>High Density Polyethylene Class 10 pressure water pipes with compression fittings with and including excavation bedding material, back filling, compaction, etc</u></b>				
39	50mm Pipes	m	150		R -
40	32mm Pipes	m	300		R -
	<b><u>Extra over Class 10HPPe type IV pipes for "Plasson"</u></b>				
41	50mm Bend	No	4		R -
42	32x50mm Threaded adaptor	No	4		R -
43	50x50mm Threathed adaptor	No	2		R -
	<b><u>Brass Taps, valves, etc</u></b>				
44	20mm Fullway gate valve	No	1		R -
45	20mm non-return valve	No	1		R -

46	32mm Fullway gate valve	No	2		R	-
47	32mm Non-return valve	No	2		R	-
	<b>Sandries</b>					
48	5mm borehole sleeve cap with 32mm diameter long barrel BSP socket welded in the centre of the cap	No	1		R	-
	<b>PRECAST CONCRETE</b>					
49	1000mm Diameter standard pre-cast concrete manhole 1000mm high with concrete precast lid and lockable manhole cover including opening through side for 30mm pipe including all excavation, back filling, compaction, 19mm crushed stone bedding 100mm thick, etc	No	1		R	-
	<b>PAVING</b>					
50	Carefully lift up and remove paving and store on site including preparation of area and relaying of paving in original position after construction completion	m2	5		R	-
51	Provide all the necessary equipment, water, etc, for and test pipe system	Item	1		R	-
	<b>FENCING</b>					
52	Security fencing of at least 1.8m high security fence with galvanised poles cast in concrete and with a lockable vehicle and security gate around each installation	Item	1		R	-
					R	-
	<b>WATER PURIFICATION</b>					
53	Provide the sum of R150,000.00 nett for Water Purification Treatment.	Item	1	R 150 000,00		R150 000.00
54	Allow for profit and attendance if required	Item	1			
	<b>Sub-Total for Water Purification -Carried to Summary</b>				R	-
	<b>BOOSTER PUMP</b>					
55	Provide the sum of R100,000.00 nett for booster pump	Item	1	R 100 000,00		R 100 000.00
56	Allow for profit and attendance if required	Item	1			
	<b>Sub-Total for Booster -Carried to Summary</b>				R	-
	<b>SUMMARY</b>					
1	<b>DRILLING AND TESTING</b>				R	-
2	<b>PUMP INSTALLATION</b>				R	-
3	<b>GALVANISED ELEVATED WATER TANK</b>				R	-
4	<b>PIPE WORK</b>				R	-
5	<b>WATER PURIFICATION</b>				R	-
6	<b>BOOSTER PUMP</b>				R	-
	<b>TOTAL OF WORK TO MAIN SUMMARY PAGE</b>				R	-