

Item No.	Description	Unit	Qty	Rate	Amount
1.00	<b><u>BILL NO. 1 PRELIMINARY AND GENERAL</u></b>				
1.01	Comply with the requirements of the contract in terms of the programme and the completion and hand-over dates.	Lot	1		R
1.02	Comply with the contract in terms of the safety requirements for the project.	Lot	1		R
1.03	Provision of the safety file for the project in terms of the contract requirements and the requirements of the client	Lot	1		R
1.04	Provision of a detailed MS project programme in terms of the contract requirements	Lot	1		R
1.05	Contract engineering and detailed engineering required for all equipment & installation requirements.	Lot	1		R
1.06	All site measurements and co-ordination with the engineers requirements of the project.	Lot	1		R
1.07	Co-ordination of all equipment and systems with the engineer and also with all other sub-contractors on the site, and for the duration of the project.	Lot	1		R
1.08	Contract management	Lot	1		R
1.09	Safety management on the site, and safety supervision at all times while working on the site.	Lot	1		R
1.10	Supervision of the installation and supervision of all workers on site to ensure an efficient and well-managed contract.	Lot	1		R
1.11	Site establishment including site accommodation, safety signage & requirements, fencing, storage racks and everything necessary for a well planned and managed contract.	Lot	1		R
1.12	Rigging and handling requirements for all equipment and services required for the complete and efficient installation. Include for the hire of cranes and fork lift trucks as necessary for all equipment.	Lot	1		R
1.13	Scaffolding for the installation of piping and all other equipment	Lot	1		R
1.14	Equipment & design submissions to the consultant for approval prior to ordering or manufacturing .	Lot	1		R
1.15	Provision of a performance guarantee as required by the main contractor and / or the client, and in terms of the main contract.	Lot	1		R
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Item No.	Description	Unit	Qty	Rate	Amount
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1.16	Contract insurance costs to cover all equipment & services for the duration of the contract	Lot	1		R
1.17	All wiring diagrams and electrical layout drawings in CAD format.	Lot	1		R
1.18	Provision of O & M manuals after completion & commissioning. Initial submission is to be a draft which is to be checked and approved by the consulting engineer. Final payment will be withheld until after the approved O & M manuals are submitted to the client.	Lot	1		R
1.19	De-establishment of the site including removal of all excess materials, tools and rubbish. The site must be 100% clean and tidy after completion	Lot	1		R
1.20	Service and maintenance of the new equipment for a period of 12 months after practical completion as per the manufacturers maintenance requirements is required on all equipment installed	Lot	1		R
1.21	Commissioning of the systems	Lot	1		R
1.22	Any other "Preliminary & General" items deemed necessary by the tenderer / contractor	Lot	1		R
<b>TOTAL BILL NO 1 - CARRIED FORWARD TO SUMMARY PAGE</b>					R

Item No.	Description	Unit	Qty	Rate	Amount
2.00	<b><u>BILL NO. 02 - FIRE WATER PUMP INSTALLATION</u></b>				
2.1	<b><u>Supply, Install and Commission an Electric Fire Pump Set</u></b>	No	1		R
	Duty 1200 l/min @ 500kPa				
	Type Electric End Suction Centrifugal Pump				
	Impellers Stainless steel				
	Motor IP55 Electric Motor				
	Mounting Fabricated and painted mild steel channel base to SANS 10287				
	6-Hour Works Test Yes				
	Hydrosphere 200l				
	Suction Manifold Yes with isolation, non-return valves, pressure gauge and pressure switches				
	Discharge Manifold Vertical multistage centrifugal pump in stainless steel construction c/w electric motor				
	Jockey Pump Vertical multistage centrifugal pump in stainless steel construction				
	Control Panels Complete IP55 db board with star-delta electric controller with siren and beacon alarm plus jockey pump controller				
2.2	<b><u>Supply, Install and Commission a Diesel fire pump set</u></b>	No	1		R
	Duty 1200 l/min @ 500kPa				
	Altitude 972m ASL				
	Type Diesel end suction centrifugal pump				
	Impellers Stainless Steel				
	Motor Naturally aspirated air cooled diesel engine				
	Mounting Fabricated and painted mild steel channel base to SANS 10287				
	Fuel Tank 6 hr				
	6-Hour Works Test Yes				
	Battery's Dual Battery Sets				
	Exhaust Pipe 3m				
	Hydrosphere 200l				
	Suction Manifold Yes with isolation valves, pressure gauges and pressure switches				
	Discharge Manifold Yes with isolation, non-return valves, pressure gauge and pressure switches				
	Jockey Pump Vertical multistage centrifugal pump in stainless steel construction c/w electric motor				
	Control Panels Complete IP55 db board with 12 Volt diesel controller, trickle charges, crank case solenoids with siren and beacon alarm plus jockey pump controller and extractor fan. include 3-leg auto start arrangement with pressure switches and gauges				
<b>TOTAL BILL NO 2 - CARRIED FORWARD TO SUMMARY PAGE</b>					<b>R</b>

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