

**KZN HEALTH**  
**THULASIZWE CLINIC - ZNB 5766/2024-H**  
**DOMESTIC WATER PUMP INSTALLATION**  
**BILL OF QUANTITIES**

**PARSONS & LUMSDEN**  
**D0741/WS**

Item No.	Description	Unit	Qty	Rate	Amount
<b>1.00</b>	<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 and 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 and 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
	<b>Brought Forward from Previous Page</b>				R
1.16	Contract insurance costs to cover all equipment and 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 and 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 - DOMESTIC WATER PUMP INSTALLATION</u></b>				
2.1	<b><u>Supply, Install and Commission a Domestic Water Pump Set</u></b>  Type Stainless Steel vertical multistage centrifugal pump set Impeller Stainless Steel Flow Rate 3,0 l/s @ 30m Delivery Pressure 300kPa Duty/Standby Arrangement Yes Variable Speed Drive Yes Internal / Externally Located Internally (in plant room) Base Plate Mild steel base  <b><u>Accessories &amp; Controls</u></b> Control panel with alarms and low level protection for pump units. Automatic cascade control of pumps by means of pressure transmitters. Automatic pump changeover at any start/stop cycle. If a pump is in fault status, it is automatically taken out of operation. Automatic resetting of dry-running fault. Manual resetting of overload fault. 1 x Low level float. To ensure stable operation, the booster set to be fitted with suitable diaphragm Stainless Steel Suction manifold to be fitted with isolation valves plus compound Stainless Steel Discharge manifold to be fitted with non-return / isolation valves 1 x 24 Litre Hydro pneumatic vessels. Control cabinet to be fitted with an integrated controller and provided with all 1 x strainer on suction manifold.	No	1		R
2.4	<b><u>Supply, Install and Commission UV Filters</u></b> WEDECO AQUADA 10 or similar and approved Stainless steel polished vertical	No	2		R
2.5	<b><u>Interconnecting Pipes, valves and fittings between domestic booster pump and UV filters</u></b>	Sum			R
<b>TOTAL BILL NO 2 - CARRIED FORWARD TO SUMMARY PAGE</b>					<b>R</b>

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