

Bill of Quantities for the Mechanical Installation
Summary

ITEM NO.	DESCRIPTION	UNIT		AMOUNT R C
1	Ventilation Systems	Item		
2	Fire Protection Systems	Item		
3	Equipment	Item		
4	LPG Systems	Item		
5	Operating & Maintenance Manuals and AS BUILT drawing	Item		
6	Contingency	Item		50 000,00
7	Total for Mechanical Services Sub- Contract	Item		
	<p><u>DAY WORKS AND ADDITIONAL MATERIAL</u></p> <p>Provisional sum above to be expended as and when required upon instructions from the engineer and against which the contractor shall have no claim except where such instructions are passed and deducted in whole or in part if not required. The rates for items below shall be used</p> <p>Labour</p> <p>The rates for labour in dayworks are to be applied to the hours worked and are to include overheads, profits, etc.</p> <p>Normal Time Technician Apprentice Semi-skilled Labourer</p> <p>Sundays and Public Holidays</p> <p>Technician Apprentice Semi-skilled Labourer</p> <p>Transport</p> <p>The following nett rates for transport are to be applied and they are include for the provision of the vehicle fuel, driver waiting and travelling time.</p> <p>Passengers vehicle in dayworks.</p> <p>LDV in dayworks. 5 ton truck in dayworks</p>			
TOTAL MECHANICAL TENDER SUM CARRIED TO MAIN CONTRACT SUMMARY				

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT c	R
"1	<u>Ventilation Systems</u> Design, manufacture, works testing, supply and delivery to site, moving into position, erection, connecting up, site testing, witness testing, proving to the inspectors, demonstrating to the Employer and maintenance of the complete installation as outlined in the specification and on the drawings.					
1.1	Stainless steel kitchen extract hoods complete with stainless steel grease filters and grease tray, extract fan and attenuators, fire rated extract duct and fire dampers					
1.2	1800 x 600 extract hood	No.	1			
1.3	Extract fan rated at 2.0 m3/s	No.	1			
1.4	Extract duct 3000mm high with dimensions as shown on the drawing including weather proof discharge cowl	No.	1			
1.5	Testing and commissioning to the satisfaction of the engineer	Item	1			
1.6	Allow for maintenance during defects liability period in terms of the contract	Item	1			
Total carried to Summary Page						

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R c
2,00	<u>FIRE PROTECTION INSTALLATION</u>				
	Design, manufacture, works testing, supply and delivery to site, moving into position, erection, connecting up, site testing, witness testing, proving to the inspectors, demonstrating to the Employer and maintenance of the complete installation as per conditions of contract and the specification and on drawings.				
2.1	Standard Wall Mounted Fire Hose Reel to comply with SANS 543. Fire hose reels shall be fitted with a 30m long reinforced red rubber hose of internal diameter of 20mm nominal bore, with a 4.8mm internal diameter chromium plated brass nozzle and isolating valve. Fire hose reel pipes above ground shall be colour coded signal red A11.	No.	4		
2.4	Galvanised mild steel pipe treated with galvafruid paint and two coats of firemen red signal paint A11. Pipework to be complete with supports, bends, unions to make a complete installation				
2.4.1	25mm	m	40		
2.5	50 mm Class 12 HDPE pipe including bends and other fittings underground laid in 600mm deep trench backfilled at compacted as specified by civil engineer	m	100		
2.6	5kg CO2 fire extinguisher complying with the requirements of SANS 1567. Extinguishers to hung at position s shown on the drawings complete with meranti backing board.	No.	1		
2.7	4.5 kg Dry Chemical powder fire extinguisher complying with the requirements of SANS 1093 and the extinguishing medium shall comply with the appropriate requirements of SANS 1151. Extinguishers to hung at position s shown on the drawings complete with meranti backing board.	No.	8		
2.9	Fire blankets nominal size 1200 x 1200 in cover with quick release mechanism. Minimum weight 430 gr/m², ignition time 13min and Max temp. 550°C.	No.	1		
2.10	Fire signage as indicated on the drawings. Marking and signposting shall be of the photoluminescent type and shall comply with the relevant sections of SANS 1186.	Item	1		
2.12	Testing and commissioning to the satisfaction of the engineer	Item			
2.13	Allow for maintenance during defects liability period in terms of the contract	Item			
	Total carried to Summary Page				

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R c
5	<u>Equipment</u> Design, manufacture, works testing, supply and delivery to site, moving into position, erection, connecting up, site testing, witness testing, proving to the inspectors, demonstrating to the Employer and maintenance of the complete installation as outlined in the specification and on the drawings.				
5.1	10 litres Hydroboil water heater for kitchen	No.	1		
5.2	200 litres heat pump water heater	No.	1		
5.2	Testing and commissioning to the satisfaction of the engineer	Item			
5.3	Allow for maintenance during defects liability period in terms of the contract	Item			
Total carried to Summary Page					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R c
6	<u>LPG Supplies</u> Design, manufacture, works testing, supply and delivery to site, moving into position, erection, connecting up, site testing, witness testing, proving to the inspectors, demonstrating to the Employer and maintenance of the complete installation as outlined in the specification and on the drawings.				
6.1	LPG 20 mm dia manifold in schedule 40 steel for kitchen	No.	1		
6.2	48 kg full LPG cylinders	No.	2		
6.3	Manual changeover valve	No.	1		
6.4	12 mm isolating valve	No	1		
6.5	12 mm Pressure reducing valve SANS approved	No.	1		
6.6	12 mm fire man's isolating valve	No.	1		
6.7	12 mm copper pipe	m	2		
6.8	4 burner stock pot gas stove	No.	2		
6.9	Testing and commissioning to the satisfaction of the engineer	Item			
6.10	Allow for maintenance during defects liability period in terms of the contract	Item			
Total carried to Summary Page					