

HEATING, VENTILATION AND AIR CONDITIONING - HVAC

VOLUME G.1 CONTENTS OF RATES TABLES

RATES SET FOR ALL SUCCESSFUL BIDDERS

NOTE: BIDDER'S BIDDING DOCUMENT RATES COMPARED WITH ITS EXCEL RATES AND CORRECTED, WITH THE FORMER TAKING PRECEDENCE.

When pricing the Schedules of Rates, tenderers should take note of the stipulations of the Particular Specifications & Pricing Instructions (Issued under separate cover).	
Sub-Section	Titles of Sub-Sections
VOLUME G.1.A	CROSS-CUTTING ITEMS
VOLUME G.1.B	AIR CONDITIONING, VENTILATION & REFRIGERATION

HEATING, VENTILATION AND AIR CONDITIONING - HVAC

v1.0 - 28 Jul'21

VOLUME G.1.A CROSS-CUTTING ITEMS

NOTE: BIDDER'S BIDDING DOCUMENT RATES COMPARED WITH ITS EXCEL RATES AND CORRECTED, WITH THE FORMER TAKING PRECEDENCE.

			SUCCESSFUL BIDDERS	
Reference Number	DESCRIPTION	UNIT	QTY	RATE Excl. VAT
	REMARKS - KEY EXTRACTS FROM THE PRICING INSTRUCTIONS			
	<p>Introduction The inclusion of the Key Extracts is to emphasize certain instructions stated in Section 2 (Pricing Instructions) and in no way replaces Section 2 in part, or as a whole.</p>			
G.1.A A	<p>Sections 1 & 2: This Rates Table shall be read together with the Particular Specifications and Pricing Instructions. If there is a contradiction in terms between the documents, the requirements of the Pricing Instructions take precedence.</p>			
G.1.A B	<p>Purpose: Rates are required for the maintenance or servicing of the specified equipment and infrastructure at the health facilities of the Limpopo Dept. of Health (LDOH). The work also includes for upgrades to, or installing relevant replacement equipment and infrastructure. Work tasks will be issued on an as-and-when-required basis to contractors, who shall use the items and their approved rates to compile quotes for each work task.</p>			
G.1.A C	<p>Extent of rates: Unless otherwise specified, all rates for materials and equipment should be deemed to ONLY include for the manufacturing, supply, delivery to the contractor's workshop. The cost of delivery to site, physical replacement and/or installation of materials and equipment, testing and commissioning of the items, will be calculated using the applicable travelling and labour rates.</p>			
G.1.A D	<p>Measurement of travelling trips: A. The Department will consider accepting established workshop(s) of the contractor and its approved subcontractors in Limpopo province as base for calculating trip distances by the contractor to health facilities. Should the contractor have more than one workshop in the province, then the workshop closest to an affected health facility shall be used as base. B. Should the contractor or its approved subcontractors not have a workshop in Limpopo that is accepted by the Department, then the Department's Head Office at 18 College Street, Polokwane shall serve as base for calculating trip distances to the health facilities. C. In all cases of travelling, the contractor shall endeavour to arrange round trips for a maintenance team to various facilities on the same day, so that the itinerary for the day would result in the more efficient use of labour and travelling time. The first and last trips of the day shall be measured from the Departmental accepted base. In such cases, the inter-facility distance claimed shall be clearly indicated on the relevant job cards and invoices, along with a remark of the movement to the following destination.</p>			
G.1.A E	<p>Travelling time for all specialists, institutional support, staff and labour shall be claimed at 50% of the hourly rate. The full hourly rate applies to office work and on-site work.</p>			
G.1.A F	<p>Duplicate items: Should the this Rates Table contain duplicate items with different rates, the rate for the item that relates to the specific type of work being undertaken, shall apply.</p>			

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Reference Number	DESCRIPTION	UNIT	QTY	RATE Excl. VAT
G.1.A G	Site establishment: Provision has been made in these schedules for site establishment when upgrade work or new installations are required. Ad hoc approval will be given in exceptional cases for establishment on-site for maintenance or servicing work, but it will generally not be allowed.			
G.1.A H	Independent specialists: The contractor will, from time-to-time, be requested by LDOH to appoint Independent Specialists, as listed in the Rates Table. The specialist will directly report to LDOH, but be paid by the contractor.			
G.1.A 1. PRELIMINARY & GENERAL				
G.1.A 1.1	MARK-UP RATE			
G.1.A 1.1.1	Specialist Suppliers & Subcontractors: Percentage mark-up on sub-contractors or suppliers for specialist work, equipment, or materials approved by the client's representative, with attached invoices submitted by such service providers. Refer to Pricing Instructions re: scope and calculation of the mark-up value.	%	Rate only	12,5%
G.1.A 1.1.2	Unlisted Items: Percentage mark-up on materials, equipment and fittings not included in this Rates Table and approved by the client's representative, with supplier invoices attached. Refer to Pricing Instructions re: the extent of quotes required and the calculation of the mark-up value.	%	Rate only	15,0%
G.1.A 1.2	CONTRACTOR'S CHARGE FOR OVERHEADS			
G.1.A 1.2.1	To include for the contractor's overheads, management and administration costs required in the management of each Task Instruction issued. Rate per submitted daily job card for each works instruction. A daily job card needs to be completed and signed, and covers all work done on a day at the facility per the Task Instruction. Original signed job cards are to be included with invoices for work done. (Overheads and site establishment costs for work other than maintenance & repairs, is measured elsewhere).	Per job card	Rate only	R5 400,00
G.1.A 1.3	HEALTH & SAFETY IN TERMS OF OHS ACT 1993			
G.1.A 1.3.1	Compile and submit the Health and Safety Plan: Provision of the Health and Safety Plan on the site for all upgrade work and new installations, in terms of the latest Construction Regulations, OHS Act 1993. Contractor to include proof of notice to Dept. of Labour and of its Section 16.2 site staff mandatory with invoices. Note: The scope of repairs, maintenance work, services and replacements implies that the contractor temporarily extends his workshop to site. The contractor is thus required to apply appropriate workplace Health and Safety measures for staff travelling to and working on-site, and include such costs in all rates quoted.	Per installation	Rate only	R17 500,00

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Reference Number	DESCRIPTION	UNIT	QTY	RATE Excl. VAT
G.1.A 1.3.2	Health & Safety personal protective equipment (PPE) for each local labourer on-site employed for upgrade work and new installations. PPE comprises of the following. Receipts, name lists and ticket numbers of PPE issued, shall be attached to invoices:	per person	Rate only	R2 500,00
	<ul style="list-style-type: none"> - Safety boots - Overall - Reflective safety vest - Hard hat - Ear plugs - Protective gloves - Dust masks 			
G.1.A 1.4	HAND-OVER FILE			
G.1.A 1.4.1	For each upgrade or new works task, 1x binded hard copy and 1x soft copy (CD or DVD) of the hand-over file, properly marked (LDOH logo and name, Facility Name; Short description of work done; Completion date; Contractor name). With complete index list and including:	Per works task	Rate only	R6 000,00
	<ul style="list-style-type: none"> - Contractor name, street address, contact details - Instruction to perform the work - Description of scope of work - Spares list - Completed and signed statutory certificates - Completed & signed completion certificates - O&M manuals - Equipment list with description, makes, models and serial numbers. - Final invoice for all the works, complete with all supporting documents 			
G.1.A 1.5	SELECTED SPECIALISTS			
G.1.A 1.5.a	Selected specialists are to be used on an as-and-when-required basis by LDOH. The contractor will serve as vehicle for procuring the specialist services and paying the specialist, but the specialist directly reports to LDOH. The contractor will sign an agreement with the specialist that the payment for specialist services provided to LDOH will be directly paid by LDOH to the specialist.			
G.1.A 1.5.1	Engineering draftsman	hr	Rate only	R900,00
G.1.A 1.5.2	Professional mechanical engineer	hr	Rate only	R1 100,00
G.1.A 1.5.3	Professional mechanical engineering technician	hr	Rate only	R900,00
G.1.A 1.5.4	Unregistered mechanical engineering technician (min. 10 years appropriate work experience)	hr	Rate only	R800,00
G.1.A 1.5.5	Professional electrical engineer	hr	Rate only	R1 200,00
G.1.A 1.5.6	Professional electrical engineering technician	hr	Rate only	R950,00
G.1.A 1.5.7	Professional electronic engineer	hr	Rate only	R1 100,00
G.1.A 1.5.8	Professional electronic engineering technician	hr	Rate only	R950,00
G.1.A 1.6	INSTITUTIONAL SUPPORT			
G.1.A 1.6.A	Identified staff will be required to provide institutional support to LDOH on an as-and-when needed basis. The post requirements and descriptions are included in Section 1 (Particular Specifications). The contractor will serve as vehicle for procuring the support staff and paying the them, though the staff will report directly to LDOH.			

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Reference Number	DESCRIPTION	UNIT	QTY	RATE Excl. VAT
G.1.A 1.6.1	Site staff			
G.1.A 1.6.1.1	Electrical engineering technologist	hr	Rate only	R950,00
G.1.A 1.6.1.2	Electrical engineering technician	hr	Rate only	R725,00
G.1.A 1.6.1.3	Non Destructive Testing (NDT) Technician.	hr	Rate only	R725,00
G.1.A 1.6.1.4	Metalurgist	hr	Rate only	R900,00
G.1.A 1.6.2	In-service training In-service training of TVET (Technical Vocational Education & Training) students requiring internship work-experience for a maximum period of six month.	Per student per month	Rate only	R5 750,00
G.1.A 1.6.3	Corporate Social Responsibility (CSR) activities of contractor While the contractor is working on-site at a facility, to do minor repairs as a free service at the health facility. Such repairs are limited to: Leaking taps and toilet valves, tightening the screws at door handles and hinges – all to a maximum value of materials of R500 and 1 hour for a semi-skilled labourer per facility.	Sum	Sum	Included in rates
G.1.A 1.7	LABOUR (installation & maintenance)			
G.1.A 1.7.A	<u>Remark on construction labour:</u> Normal working hours are 08:00 to 17:00 for each normal working day. Overtime to be paid in terms of latest Labour legislation. Where applicable, the unit cost for overtime worked shall be separately indicated on submitted job cards and quotes. Overtime rates are: - 1,5 x the rate for overtime on normal working days and Saturdays - 2,0 x the rate for public holidays and Sundays			
G.1.A 1.7.1	Construction supervisor	hr	Rate only	R300,00
G.1.A 1.7.2	Foreman	hr	Rate only	R300,00
G.1.A 1.7.3	Boiler Operators paragraph 17.04	hr	Rate only	R200,00
G.1.A 1.7.4	Boiler Cleaners	hr	Rate only	R150,00
G.1.A 1.7.5	Welder with API 1104 certificate	hr	Rate only	R250,00
G.1.A 1.7.6	Qualified Electrician	hr	Rate only	R270,00
G.1.A 1.7.7	Qualified Fitter & turner	hr	Rate only	R270,00
G.1.A 1.7.8	Qualified Millwright	hr	Rate only	R250,00
G.1.A 1.7.9	AIA Inspector	hr	Rate only	R250,00
G.1.A 1.7.10	Artisan Assistant	hr	Rate only	R180,00
G.1.A 1.7.11	Semi-skilled labourer	hr	Rate only	R105,00
G.1.A 1.7.12	Unskilled Labourer	hr	Rate only	R65,00
G.1.A 1.8	SLEEPING-OUT ALLOWANCE (Maintenance and servicing work tasks only)			
G.1.A 1.8.1	Where the scope of the maintenance work requires more than one day on-site and it is more cost effective than having daily return trips to the contractor's base, the contractor is allowed a sleeping-out allowance for its on-site staff. The allowance is to provide for overnight accommodation and meals. The contractor shall obtain prior written approval from LDOH for sleeping-out arrangements. Such approval, together with proof of accommodation shall be attached to the quote for that work task.	Per person per night	Rate only	R1 200,00

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Reference Number	DESCRIPTION	UNIT	QTY	RATE Excl. VAT
G.1.A 1.9	TRANSPORT			
G.1.A 1.9.1	4 x 2 LDV (max. 2 500 cm ³)	km	Rate only	R10,00
G.1.A 1.9.2	4 x 4 LDV (max. 3 000 cm ³)	km	Rate only	R10,00
G.1.A 1.9.3	Flatbed truck - 2 ton to 4 ton. Rate to include driver.	km	Rate only	R16,00
G.1.A 1.9.4	Flatbed truck - 6 ton to 10 ton. Rate to include driver.	km	Rate only	R20,00
G.1.A 1.9.5	Flatbed truck - 12 ton to 16 ton. Rate to include driver.	km	Rate only	R28,00
G.1.A 1.9.6	Lowbed truck and trailer - 20 ton. Rate to include for operator.	h	Rate only	R600,00
G.1.A 1.9.7	Crane truck - lifting capacity 2 ton to 4 ton. Rate to include for operator.	km	Rate only	R45,00
G.1.A 1.9.8	50 Ton self-propelled crane	h	Rate only	R850,00
G.1.A 1.9.9	110 Ton self-propelled crane	h	Rate only	R950,00
G.1.A 2. ANCILLARY ITEMS				
	DISPOSAL OF REPLACED EQUIPMENT, MATERIALS & BUILDING RUBBLE			
G.1.A 2.1	<u>Removal of replaced boiler and steam line equipment and materials</u> Replaced equipment and materials that are not on the government's asset register, to be acknowledged in writing by the health facility, removed from site and disposed of at a registered solid waste disposal site, or scrap metal yard. Within 50km radius of the facility. <i>REMARK: Equipment that is on the asset register, are to be acknowledged in writing by the health facility and left at a designated place at the facility - to be disposed of through prescribed processes by the department. Copy of completed and signed disposal form to be included with invoice.</i>	Sum per ticket issued	Rate only	R11 450,00
G.1.A 2.2	<u>Extra over:</u> Long overhaul - per SANS 1200DA	load.km	Rate only	R150,00

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REF. NO.	SCHEDULED PARTS	UNIT	QUANTITY	RATE Excl. VAT
G.1.B 1	HONEYWELL CONTROLS			
G.1.B 1. 1	Valve Actuator (heating and spring to close motorise valve) 1/2 "	ea	Rate Only	R9 785,00
G.1.B 1. 2	Valve Actuator (heating and spring to close motorise valve) 5/8"	ea	Rate Only	R7 200,00
G.1.B 1. 3	Valve Actuator (heating and spring to close motorise valve) 3/4"	ea	Rate Only	R6 071,00
G.1.B 1. 4	Valve Actuator (heating and spring to close motorise valve)1"	ea	Rate Only	R6 857,00
G.1.B 1. 5	Valve Actuator (heating and spring to close motorise valve)1 1/2"	ea	Rate Only	R6 750,00
G.1.B 1. 6	Valve Actuator (heating and spring to close motorise valve)	ea	Rate Only	R7 000,00
G.1.B 1. 7	Steel 2 way valve for aceuvators 1/2"	ea	Rate Only	R2 500,00
G.1.B 1. 8	Steel 2 way valve for aceuvators 5/8"	ea	Rate Only	R3 800,00
G.1.B 1. 9	Steel 2 way valve for aceuvators 3/4"	ea	Rate Only	R4 450,00
G.1.B 1. 10	Steel 2 way valve for aceuvators 1"	ea	Rate Only	R4 600,00
G.1.B 1. 11	Steel 2 way valve for aceuvators 1 1/2"	ea	Rate Only	R4 500,00
G.1.B 1. 12	Sail switch	ea	Rate Only	R2 000,00
G.1.B 1. 13	Damper Motor Actuator10 nm	ea	Rate Only	R5 000,00
G.1.B 1. 14	Damper Motor Actuator15 nm	ea	Rate Only	R5 200,00
G.1.B 1. 15	Damper Motor Actuator 20 nm	ea	Rate Only	R6 000,00
G.1.B 1. 16	Temprerature controller	ea	Rate Only	R2 500,00
G.1.B 1. 17	L C D temprerature and humidty comtroler 12 uneversel input/output	ea	Rate Only	R4 500,00
G.1.B 1. 18	L C D temprerature and humidty comtroler 22 uneversel input/output	ea	Rate Only	R4 500,00
G.1.B 1. 19	L C D temprerature and humidty comtroler 36 uneversel input/output	ea	Rate Only	R4 500,00
G.1.B 1. 20	chilled water three way vale 32 mm	ea	Rate Only	R3 900,00
G.1.B 1. 21	chilled water three way vale 40 mm	ea	Rate Only	R4 800,00
G.1.B 1. 22	chilled water three way vale 50 mm	ea	Rate Only	R7 200,00
G.1.B 1. 23	chilled water three way vale 65 mm	ea	Rate Only	R8 000,00
G.1.B 1. 24	chilled water three way vale 80 mm	ea	Rate Only	R7 800,00
G.1.B 1. 25	chilled water 3 way valve controller for 32 mm	ea	Rate Only	R4 562,00

G.1.B 1. 26	chilled water 3 way valve controller for 40 mm	ea	Rate Only	R4 500,00
G.1.B 1. 27	chilled water 3 way valve controller for 50 mm	ea	Rate Only	R5 000,00
G.1.B 1. 28	chilled water 3 way valve controller for 65 mm	ea	Rate Only	R6 000,00
G.1.B 1. 29	chilled water 3 way valve controller for 80 mm	ea	Rate Only	R7 500,00
G.1.B 1. 30	Valve repack kit	ea	Rate Only	R4 071,00
G.1.B 2	FILTERS TO GPA SPECIFICATION			
G.1.B 2. 1	600x500x300 Filter Microcell 95% dust spot 62 pleats with seal	ea	Rate Only	R2 114,00
G.1.B 2. 2	600x600x300 Filter Microcell 95% dust spot 62 pleats with seal	ea	Rate Only	R2 000,00
G.1.B 2. 3	700x500x300 Filter Microcell 95% dust spot 31 pleats with seal	ea	Rate Only	R2 292,00
G.1.B 2. 4	500x500x300 Filter Microcell 95% dust spot 31 pleats with seal	ea	Rate Only	R2 142,00
G.1.B 2. 5	600x600x100 filter BFDf disposable 80% dust spot 11 pleats	ea	Rate Only	R592,00
G.1.B 2. 6	600x600x50 Filter BFW washable 85% arrestance 26 pleats	ea	Rate Only	R296,00
G.1.B 2. 7	500x500x50 Filter BFW washable 85% arrestance 26 pleats	ea	Rate Only	R284,00
G.1.B 2. 8	10mm X 25mm filter gasket	Roll	Rate Only	R2 642,00
G.1.B 2. 9	600X600X300 Microcell Filters F8	ea	Rate Only	R2 500,00
G.1.B 2. 10	600X300X300 Microcell Filters F8	ea	Rate Only	R2 078,00
G.1.B 2. 11	600X500X300 Microcell Filters F8	ea	Rate Only	R2 500,00
G.1.B 2. 12	762X600X300 Microcell Filters F8	ea	Rate Only	R2 500,00
G.1.B 2. 13	940 X 600 Filter Pad SP M5 Scrim	ea	Rate Only	R320,00
G.1.B 2. 14	600 X 600 Filter Pad SP M5 Scrim	ea	Rate Only	R320,00
G.1.B 2. 15	600x600x600 8 Pocket 95% bag Filters	ea	Rate Only	R951,00
G.1.B 2. 16	600X600X50 M5 AWM Secondary External W/S Filter	ea	Rate Only	R315,00
G.1.B 2. 17	600X600X100 M5 AWM Secondary External W/S Filter	ea	Rate Only	R850,00
G.1.B 2. 18	600X300X100 M5 AWM Secondary External W/S Filter	ea	Rate Only	R909,00
G.1.B 2. 19	600X600X50 Washable Panel Filter External Wire Support	ea	Rate Only	R296,00
G.1.B 2. 20	600X300X50 Washable Panel Filter External Wire Support	ea	Rate Only	R299,00
G.1.B 2. 21	500X500X50 Washable Panel Filter External Wire Support	ea	Rate Only	R299,00
G.1.B 2. 22	Neoprene Filter Gasket	ea	Rate Only	R1 835,00
G.1.B 2. 23	Split air con unit Filters	ea	Rate Only	R925,00
G.1.B 2. 24	Cassette Filter F9 600X300X292	ea	Rate Only	R877,00
G.1.B 2. 25	Cassette Filter F9 600X600X292	ea	Rate Only	R2 000,00
G.1.B 2. 26	Cassette Filter F8 600X600X292	ea	Rate Only	R2 000,00

G.1.B 2. 27	Theatre Particle Count	ea	Rate Only	R12 000,00
G.1.B 2. 28	Installed Hepa Filter DOP test.	ea	Rate Only	R9 197,00
G.1.B 2. 29	610 X 305 X 292 High Cap H13 Hepa Filters	ea	Rate Only	R6 214,00
G.1.B 2. 30	610 X 610 X 292 High Cap H13 Hepa Filters	ea	Rate Only	R6 628,00
G.1.B 2. 31	1524 X 762 X 80 H14 Hepa Filters Gel Seal	ea	Rate Only	R7 900,00
G.1.B 3	COMPRESSORS			
G.1.B 3. 1	9,000 BTU Piston	ea	Rate Only	R4 420,00
G.1.B 3. 2	12,000 BTU Piston	ea	Rate Only	R9 514,00
G.1.B 3. 3	18,000 BTU Piston	ea	Rate Only	R11 542,00
G.1.B 3. 4	24,000 BTU Piston	ea	Rate Only	R12 577,00
G.1.B 3. 5	36,000 BTU Piston	ea	Rate Only	R18 424,00
G.1.B 3. 6	48,000 BTU Piston	ea	Rate Only	R20 810,00
G.1.B 3. 7	60,000 BTU Piston	ea	Rate Only	R24 942,00
G.1.B 3. 8	Bristol H2NG184DPEF	ea	Rate Only	R22 400,00
G.1.B 3. 9	Bristol H2NG294DPE	ea	Rate Only	R23 471,00
G.1.B 3. 10	Copeland 2R16M3TWD570	ea	Rate Only	R50 190,00
G.1.B 3. 11	Copeland 4RK2 2500 FSD	ea	Rate Only	R53 140,00
G.1.B 3. 12	Copeland D6 FJJ 4000 BWM	ea	Rate Only	R58 300,00
G.1.B 3. 13	Copeland D8 DJI 6000 BWM	ea	Rate Only	R61 260,00
G.1.B 3. 14	CopelandCRK 3-8325-TFD	ea	Rate Only	R42 071,00
G.1.B 3. 15	DWM Copeland DKSJP-15X-EWL	ea	Rate Only	R19 500,00
G.1.B 3. 16	Manuerop MT 28 JE 5 PVE	ea	Rate Only	R10 000,00
G.1.B 3. 17	Manuerop NTZ 215 A 4 LR 1 A	ea	Rate Only	R10 200,00
G.1.B 3. 18	Manuerop MT 50 HK 4BVE	ea	Rate Only	R12 000,00
G.1.B 3. 19	Manuerop MT 64 HM 4 CVE	ea	Rate Only	R10 000,00
G.1.B 3. 20	Manuerop NT 144 HV	ea	Rate Only	R10 000,00
G.1.B 3. 21	Manuerop MT 36 JG 4 EVE	ea	Rate Only	R7 500,00
G.1.B 3. 22	Carrier 06EF299-4-610	ea	Rate Only	R9 500,00
G.1.B 3. 23	9000 BTU Rotary Compressor	ea	Rate Only	R5 033,00
G.1.B 3. 24	12000 BTU Rotary Compressor	ea	Rate Only	R5 200,00
G.1.B 3. 25	18000 BTU Rotary Compressor	ea	Rate Only	R5 900,00
G.1.B 3. 26	24000 BTU Rotary Compressor	ea	Rate Only	R6 200,00

G.1.B 3. 27	36000 BTU Rotary Compressor	ea	Rate Only	R18 546,00
G.1.B 3. 28	44000 BTU Rotary Compressor	ea	Rate Only	R27 000,00
G.1.B 3. 29	58000 BTU Rotary Compressor	ea	Rate Only	R33 000,00
G.1.B 3. 30	Hitachi scroll compressor 401 RH	ea	Rate Only	R5 000,00
G.1.B 3. 31	Hitachi compressor 753-FITB-T	ea	Rate Only	R6 800,00
G.1.B 3. 32	Copeland Compressor 4 RK2 2500 FSD	ea	Rate Only	R27 964,00
G.1.B 3. 33	Copeland Compressor D6 FJ-4000	ea	Rate Only	R37 577,00
G.1.B 3. 34	Copeland Compressor D8 DHI 5000 BWM	ea	Rate Only	R61 260,00
G.1.B 3. 35	Copeland Compressor D8 DJI 6000 BWM	ea	Rate Only	R58 000,00
G.1.B 3. 36	Maneurop Compressor MT50HV4	ea	Rate Only	R18 890,00
G.1.B 3. 37	Maneurop Compressor MT80HV4	ea	Rate Only	R25 390,00
G.1.B 3. 38	Maneurop Compressor MT160HW	ea	Rate Only	R45 760,00
G.1.B 3. 39	Carrier Compressor 06EF299-4-610A-EE	ea	Rate Only	R124 880,00
G.1.B 3. 40	Carrier Compressor 06DA8242-BA3601	ea	Rate Only	R69 260,00
G.1.B 3. 41	Copland CRK 3-8325-TFD/552	ea	Rate Only	R32 900,00
G.1.B 3. 42	Tecumseh AG5573 E	ea	Rate Only	R22 580,00
G.1.B 3. 43	Tecumseh CAJ 9480 T	ea	Rate Only	R10 267,00
G.1.B 3. 44	Tecumseh TFH 4531 Z	ea	Rate Only	R11 971,00
G.1.B 3. 45	Tecumseh TYA 9455 EKS	ea	Rate Only	R12 000,00
G.1.B 3. 46	Tecumseh CAJ 4517 E	ea	Rate Only	R12 000,00
G.1.B 3. 47	Lunite Hermetique TAJ 4519 T	ea	Rate Only	R10 200,00
G.1.B 3. 48	Lunite Hermetique CAJ 9513 T	ea	Rate Only	R9 755,00
G.1.B 3. 49	Lunite Hermitique FH 4524 F	ea	Rate Only	R12 000,00
G.1.B 3. 50	Lunite Hermitique TFH 4524 T	ea	Rate Only	R10 400,00
G.1.B 3. 51	Lunite Hermetique CAJ 9510 THR	ea	Rate Only	R9 200,00
G.1.B 3. 52	Lunite Hermetique TAG 4561 THR	ea	Rate Only	R10 400,00
G.1.B 3. 53	Lunite Hermetique TAG 4568 THR	ea	Rate Only	R12 000,00
G.1.B 3. 54	Bristol H2NG294DPE	ea	Rate Only	R25 600,00
G.1.B 3. 55	Bristol H2NG184DPEF	ea	Rate Only	R23 400,00
G.1.B 4	PUMPS, FANS & MOTORS			
G.1.B 4. 1	KSB 125-250ETB Bronze Impeller & Stainless Steel Shaft	ea	Rate Only	R29 335,00
G.1.B 4. 2	KSB ETB150-315 Bronze Impeller & Stainless Steel Shaft	ea	Rate Only	R50 614,00

G.1.B 4. 3	Ziehl EBM Fanmotor D132 15-4 3kw	ea	Rate Only	R5 496,00
G.1.B 4. 4	Ziehl EBM Fanmotor D132 15-4 4kw	ea	Rate Only	R6 171,00
G.1.B 4. 5	BMM TEFC D160M 380V 11kw	ea	Rate Only	R6 045,00
G.1.B 4. 6	BMM D2905 380V 1.1 kw	ea	Rate Only	R2 723,00
G.1.B 4. 7	BMM D1235 380V 5.5 kw	ea	Rate Only	R7 900,00
G.1.B 4. 8	KSB 40-250ETA new 255 Impeller bronze impeller & stainless steel shaft	ea	Rate Only	R15 350,00
G.1.B 4. 9	Rapid Alweiler NB 80-250 22m head	ea	Rate Only	R20 000,00
G.1.B 4. 10	Rapid Alweiler NB 65-400 40m head	ea	Rate Only	R20 211,00
G.1.B 4. 11	G x 9 Extract Fan	ea	Rate Only	R4 628,00
G.1.B 4. 12	G x 12 Extract Fan	ea	Rate Only	R5 290,00
G.1.B 4. 13	GX 6 Extractor fan	ea	Rate Only	R5 400,00
G.1.B 4. 14	Rapid Alweiler NT 250/315 Bronze impellor	ea	Rate Only	R25 272,00
G.1.B 4. 15	KSB 40/250 ETA /255 Bronze Impellor	ea	Rate Only	R15 352,00
G.1.B 4. 16	KSB 125-250 ETB Bronze Impellor	ea	Rate Only	R29 335,00
G.1.B 4. 17	KSB 150-315 ETB Bronze Impellor	ea	Rate Only	R42 500,00
G.1.B 4. 18	Ziehl fan motor D132 15 4,4 KW	ea	Rate Only	R6 928,00
G.1.B 5	FAN MOTORS			
G.1.B 5. 1	10W	ea	Rate Only	R985,00
G.1.B 5. 2	16W	ea	Rate Only	R1 254,00
G.1.B 5. 3	25W	ea	Rate Only	R2 000,00
G.1.B 5. 4	250mm Fan Assembly	ea	Rate Only	R2 650,00
G.1.B 5. 5	300mm Fan Assembly	ea	Rate Only	R2 700,00
G.1.B 5. 6	350mm Fan Assembly	ea	Rate Only	R3 510,00
G.1.B 5. 7	500mm Fan Assembly	ea	Rate Only	R4 500,00
G.1.B 6	COUPLINGS			
G.1.B 6. 1	Fenner Coupling Complete F90	ea	Rate Only	R4 857,00
G.1.B 6. 2	Fenner Coupling Complete F50	ea	Rate Only	R2 928,00
G.1.B 6. 3	Fenner Coupling Complete F60	ea	Rate Only	R3 842,00
G.1.B 7	PAINT			
G.1.B 7. 1	Green Stoep Enamel	5 litre	Rate Only	R755,00
G.1.B 7. 2	Black Stoep Enamel	5 litre	Rate Only	R900,00
G.1.B 7. 3	Silver Heat resistant Paint	5 litre	Rate Only	R900,00

G.1.B 7. 4	Red Oxide	5 litre	Rate Only	R718,00
G.1.B 7. 5	Qd Enamel	5 litre	Rate Only	R708,00
G.1.B 7. 6	Thinners	5 litre	Rate Only	R250,00
G.1.B 7. 7	PVA Paint	5 litre	Rate Only	R644,00
G.1.B 7. 8	Paint Roller	ea	Rate Only	R131,00
G.1.B 7. 9	Paint Brush	ea	Rate Only	R63,00
G.1.B 8	V BELTS			
G.1.B 8. 1	13N1725	ea	Rate Only	R175,00
G.1.B 8. 2	13X1100	ea	Rate Only	R180,00
G.1.B 8. 3	13X1860	ea	Rate Only	R190,00
G.1.B 8. 4	13X1150	ea	Rate Only	R200,00
G.1.B 8. 5	1725x17	ea	Rate Only	R200,00
G.1.B 8. 6	13 X 2900	ea	Rate Only	R185,00
G.1.B 8. 7	13N 1800	ea	Rate Only	R150,00
G.1.B 8. 8	13 X 8 X 1130	ea	Rate Only	R150,00
G.1.B 8. 9	13 X 2120	ea	Rate Only	R150,00
G.1.B 8. 10	10N 2280	ea	Rate Only	R148,00
G.1.B 8. 11	13N 1700	ea	Rate Only	R148,00
G.1.B 8. 12	13 X 8 X 1030	ea	Rate Only	R150,00
G.1.B 8. 13	17 X 2890	ea	Rate Only	R296,00
G.1.B 8. 14	10N 950	ea	Rate Only	R222,00
G.1.B 8. 15	16N 2280	ea	Rate Only	R270,00
G.1.B 8. 16	17 X 2080	ea	Rate Only	R296,00
G.1.B 8. 17	17 X 4060	ea	Rate Only	R351,00
G.1.B 8. 18	17 X 3950	ea	Rate Only	R350,00
G.1.B 8. 19	17 X 3500	ea	Rate Only	R351,00
G.1.B 8. 20	17 X 1820	ea	Rate Only	R325,00
G.1.B 8. 21	10N 1420	ea	Rate Only	R150,00
G.1.B 8. 22	10N 1900	ea	Rate Only	R150,00
G.1.B 8. 23	13N 1600	ea	Rate Only	R155,00
G.1.B 8. 24	13N 1140	ea	Rate Only	R162,00
G.1.B 8. 25	13 X 1530	ea	Rate Only	R162,00

G.1.B 8. 26	16 N 3170	ea	Rate Only	R177,00
G.1.B 8. 27	13 X 1150	ea	Rate Only	R177,00
G.1.B 8. 28	13 X 2020	ea	Rate Only	R207,00
G.1.B 8. 29	16 N 2150	ea	Rate Only	R207,00
G.1.B 8. 30	16N 2530	ea	Rate Only	R222,00
G.1.B 8. 31	16N 3550	ea	Rate Only	R222,00
G.1.B 8. 32	16 N 2280	ea	Rate Only	R222,00
G.1.B 8. 33	17 X 2250	ea	Rate Only	R222,00
G.1.B 8. 34	17 X 2460	ea	Rate Only	R251,00
G.1.B 8. 35	17 X 2580	ea	Rate Only	R252,00
G.1.B 8. 36	17 X 2890	ea	Rate Only	R266,00
G.1.B 8. 37	17 X 3090	ea	Rate Only	R310,00
G.1.B 8. 38	17 X 3500	ea	Rate Only	R310,00
G.1.B 8. 39	17 X 3800	ea	Rate Only	R310,00
G.1.B 8. 40	10N1320	ea	Rate Only	R150,00
G.1.B 8. 41	10N2990	ea	Rate Only	R177,00
G.1.B 8. 42	10N1760	ea	Rate Only	R192,00
G.1.B 8. 43	10N1800	ea	Rate Only	R192,00
G.1.B 8. 44	10N2037	ea	Rate Only	R222,00
G.1.B 8. 45	10N950	ea	Rate Only	R236,00
G.1.B 8. 46	10N720	ea	Rate Only	R216,00
G.1.B 8. 47	SPZ 630	ea	Rate Only	R207,00
G.1.B 8. 48	SPZ670	ea	Rate Only	R207,00
G.1.B 8. 49	SPZ680	ea	Rate Only	R192,00
G.1.B 8. 50	SPZ710	ea	Rate Only	R202,00
G.1.B 8. 51	SPZ750	ea	Rate Only	R192,00
G.1.B 8. 52	SPZ760	ea	Rate Only	R199,00
G.1.B 8. 53	SPZ800	ea	Rate Only	R199,00
G.1.B 8. 54	SPZ850	ea	Rate Only	R207,00
G.1.B 8. 55	SPZ900	ea	Rate Only	R207,00
G.1.B 8. 56	SPZ950	ea	Rate Only	R214,00
G.1.B 8. 57	SPZ1010	ea	Rate Only	R214,00

G.1.B 8. 58	SPZ1080	ea	Rate Only	R222,00
G.1.B 8. 59	SPZ1140	ea	Rate Only	R222,00
G.1.B 8. 60	SPZ1180	ea	Rate Only	R236,00
G.1.B 8. 61	SPZ1200	ea	Rate Only	R236,00
G.1.B 8. 62	SPZ1250	ea	Rate Only	R296,00
G.1.B 8. 63	SPZ1270	ea	Rate Only	R296,00
G.1.B 8. 64	SPZ1420LP	ea	Rate Only	R310,00
G.1.B 8. 65	SPZ1520	ea	Rate Only	R310,00
G.1.B 8. 66	SPZ1700	ea	Rate Only	R310,00
G.1.B 8. 67	SPA800	ea	Rate Only	R266,00
G.1.B 8. 68	13 X 820	ea	Rate Only	R155,00
G.1.B 8. 69	13 X 775LI	ea	Rate Only	R162,00
G.1.B 8. 70	13N X 850	ea	Rate Only	R177,00
G.1.B 8. 71	SPA900	ea	Rate Only	R177,00
G.1.B 8. 72	SPA950	ea	Rate Only	R236,00
G.1.B 8. 73	13N X 970 LI	ea	Rate Only	R236,00
G.1.B 8. 74	SPA1000	ea	Rate Only	R214,00
G.1.B 8. 75	SPA1120	ea	Rate Only	R236,00
G.1.B 8. 76	13 X 143 LI	ea	Rate Only	R236,00
G.1.B 8. 77	SPA1180	ea	Rate Only	R281,00
G.1.B 8. 78	SPA1220	ea	Rate Only	R310,00
G.1.B 8. 79	SPA1250	ea	Rate Only	R312,00
G.1.B 8. 80	SPA1700	ea	Rate Only	R311,00
G.1.B 8. 81	SPA1800	ea	Rate Only	R310,00
G.1.B 8. 82	13 X 1900 LI	ea	Rate Only	R320,00
G.1.B 8. 83	SPA1900	ea	Rate Only	R297,00
G.1.B 8. 84	13 X 1930 LI	ea	Rate Only	R297,00
G.1.B 8. 85	13 X 1940 LP	ea	Rate Only	R297,00
G.1.B 8. 86	SPB1900	ea	Rate Only	R300,00
G.1.B 8. 87	SPB2150	ea	Rate Only	R2 000,00
G.1.B 8. 88	17 X 2286 LI	ea	Rate Only	R390,00
G.1.B 8. 89	SPB2400	ea	Rate Only	R303,00

G.1.B 8. 90	SPB3170	ea	Rate Only	R337,00
G.1.B 8. 91	SPB4560	ea	Rate Only	R396,00
G.1.B 8. 92	Steel Cutting Disc 115 X 2.4 X 22.2MM	ea	Rate Only	R95,00
G.1.B 8. 93	Steel Grinding Disc 115 X 6 X 22.3MM	ea	Rate Only	R95,00
G.1.B 8. 94	Steel Grinding Disc 230 X 6 X 22.2MM	ea	Rate Only	R148,00
G.1.B 8. 95	Steel Cutting Disc 230MM	ea	Rate Only	R200,00
G.1.B 8. 96	Steel Grinding Disc 400 X 4 X 25.4MM	ea	Rate Only	R180,00
G.1.B 9	COPPER TUBING			
G.1.B 9. 1	Copper Tubing Hard Drawn ¼" (5,5m length)	ea	Rate Only	R312,00
G.1.B 9. 2	Copper Tubing Hard Drawn ½" (5,5m length)	ea	Rate Only	R650,00
G.1.B 9. 3	Copper Tubing Hard Drawn 3/8" (5,5m length)	ea	Rate Only	R687,00
G.1.B 9. 4	Copper Tubing Hard Drawn 5/8" (5,5m length)	ea	Rate Only	R777,00
G.1.B 9. 5	Copper Tubing Hard Drawn 7/8" (5,5m length)	ea	Rate Only	R804,00
G.1.B 9. 6	Copper Tubing Hard Drawn 1 1/8" (5,5m length)	ea	Rate Only	R900,00
G.1.B 9. 7	Copper Tubing Soft Drawn ¼" (Roll)	ea	Rate Only	R572,00
G.1.B 9. 8	Copper Tubing Soft Drawn 3/8" (Roll)	ea	Rate Only	R687,00
G.1.B 9. 9	Copper Tubing Soft Drawn ½" (Roll)	ea	Rate Only	R687,00
G.1.B 9. 10	Copper Tubing Soft Drawn 5/8" (Roll)	ea	Rate Only	R926,00
G.1.B 10	FITTINGS			
G.1.B 10. 1	Flare Nut ½	ea	Rate Only	R32,00
G.1.B 10. 2	Flare Nuts ¼"	ea	Rate Only	R51,00
G.1.B 10. 3	Flare Nuts 3/8"	ea	Rate Only	R65,00
G.1.B 10. 4	Flare Nuts 5/8"	ea	Rate Only	R82,00
G.1.B 10. 5	Double end Flare Union ½"	ea	Rate Only	R80,00
G.1.B 10. 6	Double end Flare Union ¼"	ea	Rate Only	R90,00
G.1.B 10. 7	Double end Flare Union 3/8"	ea	Rate Only	R110,00
G.1.B 10. 8	Shreddar Valve ¼"	ea	Rate Only	R200,00
G.1.B 10. 9	Solenoid Valve 7/8"	ea	Rate Only	R874,00
G.1.B 10. 10	Solenoid Valve 5/8"	ea	Rate Only	R690,00
G.1.B 10. 11	Solenoid Valve ¼"	ea	Rate Only	R680,00
G.1.B 10. 12	Solenoid Valve 3/8"	ea	Rate Only	R773,00
G.1.B 10. 13	Solenoid Valve ½"	ea	Rate Only	R900,00

G.1.B 10. 14	Flux 250 gram	ea	Rate Only	R263,00
G.1.B 10. 15	Rod Silver Solder Fluxed	ea	Rate Only	R250,00
G.1.B 10. 16	Rod copper to copper	ea	Rate Only	R120,00
G.1.B 11	ARMOFLEX			
G.1.B 11. 1	½"	ea	Rate Only	R215,00
G.1.B 11. 2	3/8"	ea	Rate Only	R235,00
G.1.B 11. 3	5/8"	ea	Rate Only	R249,00
G.1.B 12	VIBRATION ABSORBERS			
G.1.B 12. 1	3/8"	ea	Rate Only	R530,00
G.1.B 12. 2	½"	ea	Rate Only	R614,00
G.1.B 12. 3	5/8"	ea	Rate Only	R795,00
G.1.B 12. 4	¾"	ea	Rate Only	R1 000,00
G.1.B 12. 5	7/8"	ea	Rate Only	R1 080,00
G.1.B 12. 6	1 1/8"	ea	Rate Only	R1 248,00
G.1.B 13	SPLIT AIR CONDITIONER UNIT			
G.1.B 13. 1	Reverse valve for 9000 BTU unit	ea	Rate Only	R962,00
G.1.B 13. 2	Reverse valve for 12000 BTU unit	ea	Rate Only	R1 290,00
G.1.B 13. 3	Reverse valve for 18000 BTU unit	ea	Rate Only	R1 290,00
G.1.B 13. 4	Reverse valve for 24000 BTU unit	ea	Rate Only	R1 305,00
G.1.B 13. 5	Reverse valve for 44000 BTU unit	ea	Rate Only	R2 000,00
G.1.B 13. 6	9,000 BTU Mid Wall Split non inverter	ea	Rate Only	R9 000,00
G.1.B 13. 7	12,000 BTU Mid Wall Split non inverter	ea	Rate Only	R11 586,00
G.1.B 13. 8	18000 BTU Mid Wall Split non inverter	ea	Rate Only	R15 000,00
G.1.B 13. 9	24,000 BTU Mid Wall Split non inverter	ea	Rate Only	R16 900,00
G.1.B 13. 10	32,000 BTU Mid Wall Split non inverter	ea	Rate Only	R26 000,00
G.1.B 13. 11	HI Wall Splits 9000 BTU Inverter	ea	Rate Only	R9 000,00
G.1.B 13. 12	HI Wall Splits 12000 BTU Inverter	ea	Rate Only	R11 000,00
G.1.B 13. 13	HI Wall Splits 17500 BTU Inverter	ea	Rate Only	R15 000,00
G.1.B 13. 14	HI Wall Splits 24000 BTU Inverter	ea	Rate Only	R16 200,00
G.1.B 13. 15	Cassettes 12000 BTU Inverter	ea	Rate Only	R15 000,00
G.1.B 13. 16	Cassettes 18000 BTU Inverter	ea	Rate Only	R17 600,00
G.1.B 13. 17	Cassettes 24000 BTU Inverter	ea	Rate Only	R19 000,00

G.1.B 13. 18	Cassettes 36000 BTU Inverter	ea	Rate Only	R25 000,00
G.1.B 13. 19	Cassettes 48000 BTU Inverter	ea	Rate Only	R36 900,00
G.1.B 13. 20	Cassettes 52000 BTU Inverter	ea	Rate Only	R44 000,00
G.1.B 13. 21	Cassettes 60000 BTU Inverter	ea	Rate Only	R43 011,00
G.1.B 13. 22	Under Ceiling / Console Split 36000 BTU Inverter	ea	Rate Only	R24 285,00
G.1.B 13. 23	Under Ceiling / Console Split 48000BTU Inverter	ea	Rate Only	R27 000,00
G.1.B 13. 24	Under Ceiling / Console Split 60 000 BTU inverter	ea	Rate Only	R35 943,00
G.1.B 13. 25	Rooftop Package units 89000 BTU 410A/407 gas	ea	Rate Only	R51 800,00
G.1.B 13. 26	Rooftop Package units 120000 BTU 410A/407 gas	ea	Rate Only	R48 900,00
G.1.B 13. 27	Rooftop Package units 180000 BTU 410A/407 gas	ea	Rate Only	R72 400,00
G.1.B 13. 28	Rooftop Package units 240000 BTU 410A/407 gas	ea	Rate Only	R73 550,00
G.1.B 13. 29	Rooftop Package units 300000 BTU 410A/407 gas	ea	Rate Only	R74 908,00
G.1.B 13. 30	Rooftop Package units 341000 BTU 410A/407 gas	ea	Rate Only	R52 000,00
G.1.B 14	COMPRESSOR SPARES			
G.1.B 14. 1	Carrier O6e Compressor Crankcase Heater	ea	Rate Only	R2 850,00
G.1.B 14. 2	Maneurop Compressor Crankcase Heater	ea	Rate Only	R3 000,00
G.1.B 15	COOLING TOWERS			
G.1.B 15. 1	Baltimore VXT 95 Cooling Tower Eliminator Set	ea	Rate Only	R10 400,00
G.1.B 15. 2	Baltimore VXT 95 Cooling Tower Ball Valve Assembly	ea	Rate Only	R6 400,00
G.1.B 15. 3	Baltimore VXT 95 Cooling Tower End Bearing	ea	Rate Only	R3 800,00
G.1.B 15. 4	Baltimore VXT 95 Fan Motor 7.5 KW	ea	Rate Only	R16 470,00
G.1.B 15. 5	Baltimore VXT 95 Cooling Tower Split Bearing	ea	Rate Only	R4 730,00
G.1.B 16	STEAM SPARES			
G.1.B 16. 1	Steam Trap ½" FT	ea	Rate Only	R2 969,00
G.1.B 16. 2	Steam Trap ¾" FT	ea	Rate Only	R3 254,00
G.1.B 16. 3	Steam Trap 1" FT	ea	Rate Only	R3 681,00
G.1.B 16. 4	Steam Trap ½" IB	ea	Rate Only	R3 090,00
G.1.B 16. 5	Steam Trap ¾" IB	ea	Rate Only	R3 272,00
G.1.B 16. 6	Steam Trap 1" IB	ea	Rate Only	R3 818,00
G.1.B 16. 7	Steam Sight Glass ½" Brass 50mm window	ea	Rate Only	R920,00
G.1.B 16. 8	Steam Sight Glass ¾" Brass 50mm window	ea	Rate Only	R1 220,00
G.1.B 16. 9	Steam Sight Glass 1" Brass 50mm window	ea	Rate Only	R1 780,00

G.1.B 16. 10	Steam Safety Valve Stainless Steel Seat ½"	ea	Rate Only	R2 060,00
G.1.B 16. 11	Steam Safety Valve Stainless Steel Seat ¾"	ea	Rate Only	R2 260,00
G.1.B 16. 12	Steam Safety Valve Stainless Steel Seat 1"	ea	Rate Only	R2 460,00
G.1.B 16. 13	0-600 KPA 100mm Dial Pressure Gauge	ea	Rate Only	R1 058,00
G.1.B 16. 14	0-1000 KPA 100mm Dial Pressure Gauge	ea	Rate Only	R980,00
G.1.B 16. 15	Steam Strainer ½"	ea	Rate Only	R824,00
G.1.B 16. 16	Steam Strainer ¾"	ea	Rate Only	R1 186,00
G.1.B 16. 17	Steam Strainer 1"	ea	Rate Only	R1 506,00
G.1.B 16. 18	Navy Union Brass Cone Face ½"	ea	Rate Only	R80,00
G.1.B 16. 19	Navy Union Brass Cone Face ¾"	ea	Rate Only	R90,00
G.1.B 16. 20	Navy Union Brass Cone Face 1"	ea	Rate Only	R166,00
G.1.B 16. 21	Navy Union Brass Cone Face 1 ½"	ea	Rate Only	R200,00
G.1.B 16. 22	½" steam nipple	ea	Rate Only	R98,00
G.1.B 16. 23	¾" steam nipple	ea	Rate Only	R18,00
G.1.B 16. 24	1" steam nipple	ea	Rate Only	R26,00
G.1.B 16. 25	1 ¼" steam nipple	ea	Rate Only	R33,00
G.1.B 16. 26	1 ½" steam nipple	ea	Rate Only	R38,00
G.1.B 16. 27	½" L/R Steam bend	ea	Rate Only	R50,00
G.1.B 16. 28	¾" L/R Steam bend	ea	Rate Only	R33,00
G.1.B 16. 29	1" L/R Steam Bend	ea	Rate Only	R36,00
G.1.B 16. 30	1 ¼" L/R Steam bend	ea	Rate Only	R45,00
G.1.B 16. 31	½" Steam Sight Glass Kit 50mm window	ea	Rate Only	R840,00
G.1.B 16. 32	¾" Steam Sight Glass Kit 50mm window	ea	Rate Only	R1 109,00
G.1.B 16. 33	1" Steam Sight Glass Kit 50mm window	ea	Rate Only	R1 500,00
G.1.B 16. 34	½" FT Steam Trap Kit Complete	ea	Rate Only	R1 680,00
G.1.B 16. 35	¾" FT Steam Trap Kit Complete	ea	Rate Only	R1 818,00
G.1.B 16. 36	1" FT Steam Trap Kit Complete	ea	Rate Only	R1 900,00
G.1.B 16. 37	P.T.F.E. Tape	ea	Rate Only	R150,00
G.1.B 16. 38	½" Steam Globe Valve	ea	Rate Only	R1 296,00
G.1.B 16. 39	¾" Steam Globe Valve	ea	Rate Only	R1 659,00
G.1.B 16. 40	1" Steam Globe Valve	ea	Rate Only	R2 200,00
G.1.B 16. 41	1 ¼" Steam Globe Valve	ea	Rate Only	R3 092,00

G.1.B 16. 42	1 ½" Steam Globe Valve	ea	Rate Only	R4 400,00
G.1.B 16. 43	¾" Gate Valve	ea	Rate Only	R580,00
G.1.B 16. 44	1" Gate Valve	ea	Rate Only	R362,00
G.1.B 16. 45	Brazing Rod 1/8"	kg	Rate Only	R800,00
G.1.B 17	SOLINIODS REFRIGERANTS SWITCHES AND VALVES			
G.1.B 17. 1	Welding Rod 2.5	kg	Rate Only	R330,00
G.1.B 17. 2	Solenoid Valve & Coil ½"	ea	Rate Only	R1 798,00
G.1.B 17. 3	Solenoid valve & Coil 7/8"	ea	Rate Only	R2 096,00
G.1.B 17. 4	Solenoid Valve & Coil 1 1/8"	ea	Rate Only	R3 370,00
G.1.B 17. 5	Solenoid Valve & Coil ¾"	ea	Rate Only	R1 350,00
G.1.B 17. 6	Sporlan H 48 Drier Core	ea	Rate Only	R424,00
G.1.B 17. 7	Sight Glass Refrigerant ½"	ea	Rate Only	R385,00
G.1.B 17. 8	Sight Glass Refrigerant 5/8"	ea	Rate Only	R417,00
G.1.B 17. 9	Sight Glass Refrigerant 7/8"	ea	Rate Only	R600,00
G.1.B 17. 10	Sight Glass Refrigerant 1 1/8"	ea	Rate Only	R2 000,00
G.1.B 17. 11	Oil Pressure Switch Manual Reset	ea	Rate Only	R2 100,00
G.1.B 17. 12	Low Pressure Switch	ea	Rate Only	R800,00
G.1.B 17. 13	Dual Pressure Switch Manual On HP	ea	Rate Only	R1 002,00
G.1.B 17. 14	High Pressure Switch	ea	Rate Only	R803,00
G.1.B 17. 15	R22 Refrigerant (kg)	kg	Rate Only	R320,00
G.1.B 17. 16	134A Refrigerant (kg)	kg	Rate Only	R320,00
G.1.B 17. 17	R404A Refrigerant (kg)	kg	Rate Only	R300,00
G.1.B 17. 18	R410A Refrigerant (kg)	kg	Rate Only	R300,00
G.1.B 17. 19	R507 Refrigerant	kg	Rate Only	R300,00
G.1.B 17. 20	R407 Refrigerant	kg	Rate Only	R300,00
G.1.B 17. 21	Flushing Agent 014B (kg)	kg	Rate Only	R320,00
G.1.B 17. 22	Refrigeration Oil 32 (l)	Litre	Rate Only	R342,00
G.1.B 17. 23	Refrigeration Oil Emkarate Ester (l)	Litre	Rate Only	R331,00
G.1.B 17. 24	Expansion Valve 3 ton	ea	Rate Only	R3 430,00
G.1.B 17. 25	Expansion Valve 5 ton	ea	Rate Only	R3 428,00
G.1.B 17. 26	Expansion Valve (eletronic)	ea	Rate Only	R6 500,00
G.1.B 17. 27	10 AMP Fuse	ea	Rate Only	R53,00

G.1.B 17. 28	220V Multi Function Timer 11 pin	ea	Rate Only	R634,00
G.1.B 17. 29	220V Relay 11 Pin & Base	ea	Rate Only	R350,00
G.1.B 17. 30	3 Pole 7.5KW contactor with 220V Coil	ea	Rate Only	R634,00
G.1.B 17. 31	3 Pole 11KW Contactor with 220V Coil	ea	Rate Only	R1 012,00
G.1.B 17. 32	3 Pole 15KW Contactor with 380V Coil	ea	Rate Only	R1 500,00
G.1.B 18	BEARINGS			
G.1.B 18. 1	Spherical Roller Bearings 22209K-C3	ea	Rate Only	R650,00
G.1.B 18. 2	Spherical Roller Bearings 22210K-C3	ea	Rate Only	R700,00
G.1.B 18. 3	Spherical Roller Bearings 22208ESK	ea	Rate Only	R720,00
G.1.B 18. 4	Spherical Roller Bearings 22213ESK	ea	Rate Only	R806,00
G.1.B 18. 5	Adapter Sleeves HE 308	ea	Rate Only	R247,00
G.1.B 18. 6	Adapter Sleeves HE 307	ea	Rate Only	R230,00
G.1.B 18. 7	Adapter Sleeves H208	ea	Rate Only	R288,00
G.1.B 18. 8	Adapter Sleeves H313	ea	Rate Only	R325,00
G.1.B 18. 9	Pillow Block UPC210	ea	Rate Only	R850,00
G.1.B 18. 10	Pillow Block UPC207-23	ea	Rate Only	R800,00
G.1.B 18. 11	Pillow Block UPC209-27	ea	Rate Only	R900,00
G.1.B 18. 12	Deep Groove Bearing 6201-2RJ	ea	Rate Only	R132,00
G.1.B 18. 13	Deep Groove Bearing 6202-2RS	ea	Rate Only	R141,00
G.1.B 18. 14	Deep Groove Bearing 6312-2RS	ea	Rate Only	R141,00
G.1.B 18. 15	Deep Groove Bearing 6309-ZZ/C3	ea	Rate Only	R150,00
G.1.B 18. 16	Deep Groove Bearing 6208-2RS	ea	Rate Only	R163,00
G.1.B 18. 17	Deep Groove Bearing 6308-ZZ	ea	Rate Only	R195,00
G.1.B 18. 18	Deep Groove Bearing 6205-ZZ	ea	Rate Only	R200,00
G.1.B 18. 19	SKF22209K/C3	ea	Rate Only	R222,00
G.1.B 18. 20	SKF 2210	ea	Rate Only	R222,00
G.1.B 18. 21	SKF 2210-K/C3	ea	Rate Only	R222,00
G.1.B 18. 22	SKF 2213-CK	ea	Rate Only	R222,00
G.1.B 18. 23	SKF 2220	ea	Rate Only	R282,00
G.1.B 18. 24	SKF 2211-CK/3	ea	Rate Only	R282,00
G.1.B 18. 25	20mm X 1210 Taper Lock Bush	ea	Rate Only	R300,00
G.1.B 18. 26	24mm X 1210 Taper lock Bush	ea	Rate Only	R300,00

G.1.B 18. 27	28mm X 1218 Taper Lock Bush	ea	Rate Only	R310,00
G.1.B 18. 28	30mm X 1610 Taper lock Bush	ea	Rate Only	R302,00
G.1.B 18. 29	45mm X 2517 Taper Lock bush	ea	Rate Only	R325,00
G.1.B 18. 30	48mm X 2517 Taper Lock bush	ea	Rate Only	R340,00
G.1.B 18. 31	Plummer Block SKF 510-605	ea	Rate Only	R800,00
G.1.B 18. 32	Plummer Block SKF PT 205	ea	Rate Only	R756,00
G.1.B 18. 33	Plummer Block SN511	ea	Rate Only	R680,00
G.1.B 18. 34	Plummer Block SKF SY 100	ea	Rate Only	R846,00
G.1.B 18. 35	Adapter Sleeve HE 308	ea	Rate Only	R500,00
G.1.B 18. 36	Adaptor Sleeve HE 307	ea	Rate Only	R445,00
G.1.B 18. 37	Adaptor Sleeve 313	ea	Rate Only	R451,00
G.1.B 19	MISC			
G.1.B 19. 1	Magnehelic Gauge 0-250Pa	ea	Rate Only	R3 100,00
G.1.B 19. 2	Magnehelic Gauge 0-500Pa	ea	Rate Only	R3 100,00
G.1.B 19. 3	Magnehelic Gauge 0-700Pa	ea	Rate Only	R3 100,00
G.1.B 19. 4	Magnehelic Gauge 0-100Pa	ea	Rate Only	R3 100,00
G.1.B 19. 5	WF 68 Refrigeration Oil	litre	Rate Only	R285,00
G.1.B 19. 6	ALVANIA EP-2 GREASE	kg	Rate Only	R237,00
G.1.B 19. 7	Pump Oil sae 40	litre	Rate Only	R120,00
G.1.B 19. 8	Paraffin	litre	Rate Only	R27,00
G.1.B 19. 9	Degreaser	litre	Rate Only	R535,00
G.1.B 19. 10	Coil Brite	litre	Rate Only	R407,00
G.1.B 19. 11	Duct tape	ea	Rate Only	R117,00
G.1.B 19. 12	Insulation Tape	ea	Rate Only	R100,00
G.1.B 19. 13	RCW 48 Drier Core High capacity	ea	Rate Only	R300,00
G.1.B 20	ELECTRICAL			
G.1.B 20. 1	220V Multi Function Timer	ea	Rate Only	R1 500,00
G.1.B 20. 2	Overload relay 6-10 amp	ea	Rate Only	R580,00
G.1.B 20. 3	Overload relay 10-16 amp	ea	Rate Only	R723,00
G.1.B 20. 4	Overload relay 16-24 amp	ea	Rate Only	R750,00
G.1.B 20. 5	Overload relay 18-36 amp	ea	Rate Only	R800,00
G.1.B 20. 6	Overload relay 63-75 amp	ea	Rate Only	R912,00

G.1.B 20. 7	Circuit Breaker 3 pole – 10 A	ea	Rate Only	R803,00
G.1.B 20. 8	Circuit Breaker 3 pole 15 A	ea	Rate Only	R803,00
G.1.B 20. 9	Circuit Breaker 3 pole 20A	ea	Rate Only	R803,00
G.1.B 20. 10	Circuit Breaker 3 pole 25	ea	Rate Only	R878,00
G.1.B 20. 11	Circuit Breaker 3 pole 30	ea	Rate Only	R914,00
G.1.B 20. 12	Circuit Breaker 3 pole 40	ea	Rate Only	R900,00
G.1.B 20. 13	Circuit Breaker 1 pole 10 A	ea	Rate Only	R400,00
G.1.B 20. 14	Circuit Breaker 1 pole 13 A	ea	Rate Only	R400,00
G.1.B 20. 15	Circuit Breaker 1 pole 20A	ea	Rate Only	R440,00
G.1.B 20. 16	Circuit Breaker 1 pole 25 A	ea	Rate Only	R470,00
G.1.B 20. 17	50 VA TRANSFORMER 220/24	ea	Rate Only	R2 314,00
G.1.B 20. 18	30 VA TRANSFORMER 220/24	ea	Rate Only	R2 314,00
G.1.B 21	SWITCHES			
G.1.B 21. 1	LP switch	ea	Rate Only	R500,00
G.1.B 21. 2	HP switch	ea	Rate Only	R600,00
G.1.B 21. 3	Dual Pressure Switch Manual on HP	ea	Rate Only	R990,00
G.1.B 21. 4	Oil Pressure Switch	ea	Rate Only	R1 125,00
G.1.B 21. 5	Contactora 3 pole 220V coil 7.5 KW	ea	Rate Only	R975,00
G.1.B 21. 6	Dial Thermometer 100mm face	ea	Rate Only	R894,00
G.1.B 21. 7	Heater tape 6"	Roll	Rate Only	R872,00
G.1.B 21. 8	Heater tape 12"	Roll	Rate Only	R872,00
G.1.B 22	EXPANSION VALVES			
G.1.B 22. 1	134A Internally Equalized ½ ton	ea	Rate Only	R1 350,00
G.1.B 22. 2	134A Internally Equalized ¾ ton	ea	Rate Only	R1 500,00
G.1.B 22. 3	134A Internally Equalized 1 ton	ea	Rate Only	R1 500,00
G.1.B 22. 4	134A Internally Equalized 2 ton	ea	Rate Only	R1 729,00
G.1.B 22. 5	134A Externally Equalized 3 ton	ea	Rate Only	R2 135,00
G.1.B 22. 6	R22 Externally Equalized 2 ton	ea	Rate Only	R1 760,00
G.1.B 22. 7	R22 Externally Equalized 1 ton	ea	Rate Only	R1 800,00
G.1.B 22. 8	Orifice no 1	ea	Rate Only	R800,00
G.1.B 22. 9	Orifice no 2	ea	Rate Only	R600,00
G.1.B 22. 10	Orifice no 3	ea	Rate Only	R600,00

G.1.B 22. 11	Orifice no 4	ea	Rate Only	R675,00
G.1.B 23	LATCH & STRIKES			
G.1.B 23. 1	R40 Latch & Strike	ea	Rate Only	R500,00
G.1.B 23. 2	R40 Hinge	ea	Rate Only	R460,00
G.1.B 23. 3	K 56 Latch & Strike	ea	Rate Only	R880,00
G.1.B 24	DRIERS & SIGHT GLASSES			
G.1.B 24. 1	Sight Glass SAE ¼"	ea	Rate Only	R450,00
G.1.B 24. 2	Sight Glass SAE 3/8"	ea	Rate Only	R500,00
G.1.B 24. 3	Sight Glass SAE ½"	ea	Rate Only	R670,00
G.1.B 24. 4	Sight Glass SAE 5/8"	ea	Rate Only	R790,00
G.1.B 24. 5	Sight Glass SAE ¾"	ea	Rate Only	R828,00
G.1.B 24. 6	Driers Commercial ¼"	ea	Rate Only	R580,00
G.1.B 24. 7	Driers Commercial 3/8"	ea	Rate Only	R650,00
G.1.B 24. 8	Driers Commercial 1/2"	ea	Rate Only	R752,00
G.1.B 24. 9	Driers Commercial 5/8"	ea	Rate Only	R900,00
G.1.B 24. 10	Driers Commercial ¾"	ea	Rate Only	R1 077,00
G.1.B 24. 11	Drier Core RCW 48	ea	Rate Only	R842,00
G.1.B 24. 12	Pencil Drier	ea	Rate Only	R320,00
G.1.B 24. 13	Driers Burn-Out Kit ½"	ea	Rate Only	R880,00
G.1.B 24. 14	Driers Burn-Out Kit 5/8"	ea	Rate Only	R900,00
G.1.B 24. 15	Driers Burn-Out Kit ¾"	ea	Rate Only	R1 016,00
G.1.B 24. 16	Driers Burn-Out Kit 7/8"	ea	Rate Only	R1 350,00
G.1.B 24. 17	Driers Burn-Out Kit 1 1/8"	ea	Rate Only	R1 700,00
G.1.B 25	STEAM SPARES			
G.1.B 25. 1	Socket 15mm steam	ea	Rate Only	R13,00
G.1.B 25. 2	Socket 20mm steam	ea	Rate Only	R15,00
G.1.B 25. 3	Socket 25mm steam	ea	Rate Only	R40,00
G.1.B 25. 4	Socket 32mm steam	ea	Rate Only	R40,00
G.1.B 25. 5	Socket 40mm steam	ea	Rate Only	R65,00
G.1.B 25. 6	Steam safety Valve 15mm	ea	Rate Only	R1 384,00
G.1.B 25. 7	Steam safety Valve 20mm	ea	Rate Only	R2 060,00
G.1.B 25. 8	Steam safety Valve 25mm	ea	Rate Only	R2 260,00

G.1.B 25. 9	Steam safety Valve 32mm	ea	Rate Only	R3 000,00
G.1.B 25. 10	Steam safety Valve 40mm	ea	Rate Only	R3 000,00
G.1.B 25. 11	Elbow 15 mm steam	ea	Rate Only	R38,00
G.1.B 25. 12	Elbow 20mm steam	ea	Rate Only	R40,00
G.1.B 25. 13	Elbow 25mm steam	ea	Rate Only	R50,00
G.1.B 25. 14	Elbow 32 mm steam	ea	Rate Only	R53,00
G.1.B 25. 15	Elbow 40mm steam	ea	Rate Only	R80,00
G.1.B 25. 16	0-600 KPA 100MM Pressure Gauge	ea	Rate Only	R755,00
G.1.B 25. 17	0-1000 KPA 100MM Pressure gauge	ea	Rate Only	R845,00
G.1.B 25. 18	Brass gauge Cock	ea	Rate Only	R607,00
G.1.B 25. 19	Angle Brass Pipe Thermometer	ea	Rate Only	R1 271,00
G.1.B 25. 20	Straight Brass Pipe Thermometer	ea	Rate Only	R1 681,00
G.1.B 25. 21	Pipe 15mm steam per meter	m	Rate Only	R140,00
G.1.B 25. 22	Pipe 20mm steam per meter	m	Rate Only	R160,00
G.1.B 25. 23	Pipe 25mm steam per meter	m	Rate Only	R171,00
G.1.B 25. 24	Pipe 32mm steam per meter	m	Rate Only	R200,00
G.1.B 25. 25	Pipe 20mm steam per meter	m	Rate Only	R160,00
G.1.B 25. 26	Pipe 25mm steam per meter	m	Rate Only	R180,00
G.1.B 25. 27	Pipe 32mm steam per meter	m	Rate Only	R190,00
G.1.B 25. 28	Copper Tube 15mm 5.5 M CLASS 2	ea	Rate Only	R600,00
G.1.B 25. 29	Copper Tube 20mm 5,5 M CLASS 2	ea	Rate Only	R900,00
G.1.B 25. 30	Copper Tube 25 mm 5.5 M CLASS 2	ea	Rate Only	R900,00
G.1.B 25. 31	15mm Conex Elbow	ea	Rate Only	R53,00
G.1.B 25. 32	20mm Conex Elbow	ea	Rate Only	R90,00
G.1.B 25. 33	25mm Conex Elbow	ea	Rate Only	R162,00
G.1.B 25. 34	Steam reducing Valve 25mm	ea	Rate Only	R3 000,00
G.1.B 25. 35	Steam reducing Valve 32mm	ea	Rate Only	R7 000,00
G.1.B 25. 36	Pu Foam	ea	Rate Only	R440,00
G.1.B 25. 37	SQ Tubing 15mm X 6M	ea	Rate Only	R283,00
G.1.B 25. 38	SQ Tubing 32mm X 6M	ea	Rate Only	R324,00
G.1.B 26	STEAGA / SIEMENS CONTROLS			
G.1.B 26. 1	RLU 222 Controller	ea	Rate Only	R6 000,00

G.1.B 26. 2	RLU 236 Controller	ea	Rate Only	R7 500,00
G.1.B 26. 3	RLU Static Controller	ea	Rate Only	R7 485,00
G.1.B 27	CONTROLS			
G.1.B 27. 1	Speed Controllers 4 kW	ea	Rate Only	R6 840,00
G.1.B 27. 2	Speed Controllers 5.5 kW	ea	Rate Only	R7 500,00
G.1.B 27. 3	Speed Controllers 7.5 kW	ea	Rate Only	R9 800,00
G.1.B 27. 4	Speed Controllers 11 kW	ea	Rate Only	R14 570,00
G.1.B 27. 5	Speed Controllers 15kW	ea	Rate Only	R12 600,00
G.1.B 27. 6	BMS cabling multi care	m	Rate Only	R208,00
G.1.B 27. 7	BMS cabling CAT 5	m	Rate Only	R225,00
G.1.B 27. 8	Fibre Optic Cabling	m	Rate Only	R208,00