

PROJECT: CONDENSATE AND FEED HEATING SYSTEM INSPECTION AND REPAIRS DURING OUTAGES INCLUDING STATUTORY TESTING OF PRESSURE VESSELS AT KUSILE POWER STATION FOR THE PERIOD OF FIVE (5) YEARS REV. 2

ITEM NO.	DESCRIPTION	UNIT	NO. OFF	QTY	RATE	AMOUNT
1	ITEM 1 PRELIMINARIES AND GENERALS					
1.1	Establishment of Facilities on the Site (12m x 3m) (Once Off Delivery of Containers)	Once Off	4	1		
1.2	Establishment of Ablutions on the Site (Once Off Delivery)	Once Off	2	1		
1.3	Entry Medicals	Once/Year	5	29		
1.4	Exit Medicals	Once Off	1	29		
1.5	PPE	Once/Year	5	29		
1.6	Welding PPE	Once/Year	5	7		
1.7	Security / Police Clearance certification	Once Off	1	29		
1.8	Safety File Submission for the duration of the Contract (Gets Reviewed per Outages)	Once Off	1	1		
1.9	Changeroom Container (1 Insulated, with Air-Con): 12m x 3m (1 Off)	Once Off	1	1		
1.10	Site Office Container (1 Insulated, with Air-Con): 12m x 3m (1 Off)	Once Off	1	1		
1.11	Site Kitchen Container (1 Off): 12m x 3m	Once Off	1	1		
1.12	Site Storage Container (1 Off): 12m x 3m	Once Off	1	1		
1.13	Ablutions (2 Off)	Once Off	2	1		
1.14	Water Bowser Trailer 2500L (1 Off)	Once Off	1	1		
1.15	Travelling (Kombi 22 Seater) (1 Off)	Per Day	1	1026		
1.16	Travelling (1 No, Sedan)	Monthly	47	1		
1.17	Site Bakkie (4x4 Double Cab Bakkie)	Per Day	1	1026		
	Subtotal Item 1 (Preliminaries & Generals) carried to Summary					
2	ITEM 2 SITE RESOURCES					
2.1	NORMAL TIME <i>Normal working hours are working hours that fall within the following periods:</i> <i>Mondays - Friday: 07:00 - 16:00</i>					
2.1.1	Site Manager (Min 5 years of Experience) (1 Off)	Hours	1	5992		
2.1.2	Site Supervisor (Min 3 years of Experience) (1 Off)	Hours	1	5992		
2.1.3	Planner (Min 1 year of Experience) (1 Off)	Hours	1	5992		
2.1.4	Storeman/Material Controller (Min 1 year of Experience) (1 Off)	Hours	1	5992		
2.1.5	Data Capturer/Site Clerk (Min 1 year of Experience) (1 Off)	Hours	1	5992		
2.1.6	Welding Coordinator (Min 3 years of Experience) (1 Off)	Hours	1	5992		
2.1.7	Safety Officer (Min 2 years of Experience) (1 Off)	Hours	1	5992		
2.1.8	Welding Inspector/QC (Min 3 years of Experience) (1 Off)	Hours	1	5992		
2.1.9	Pressure/Leak Test Technician (Min 3 years of Experience) (1 Off)	Hours	1	5992		
2.1.10	Welding Supervisor (Min 3 years of Experience) (1 Off)	Hours	1	5992		
2.1.11	Foreman – Piping and Mechanical (Min 3 years of Experience) (1 Off)	Hours	1	5992		
2.1.12	Electrician (Min 2 years of Experience) (1 Off)	Hours	1	5992		
2.1.13	Rigger (Min 2 years of Experience) (1 Off)	Hours	1	5992		
2.1.14	Overhead, Cherry Picker, and Sky Jack Operator (Plant will be provided by Employer) (1 Off)	Hours	1	5992		
2.1.15	Boiler Maker (Min 2 years of Experience) (2 Off)	Hours	2	5992		
2.1.16	Welder A Class (Min 3 Years of Experience) (2 Off)	Hours	2	5992		
2.1.18	Fitter – Mechanical (Min 2 years of Experience) (4 Off)	Hours	2	5992		
2.1.19	Fitter – Piping (Min 2 years of Experience) (4 Off)	Hours	4	5992		
2.1.20	Semi-skilled Labourer (Min 2 years of Experience) (4 Off)	Hours	4	5992		
2.1.21	Driver (22 Seater Bus) (1 Off)	Hours	1	5992		
	Subtotal Item 2.1 Normal Time					
2.2	NORMAL OVERTIME & SATURDAYS <i>Normal overtime working hours are working hours that fall within the following periods:</i> <i>Mondays - Friday: 16:00 - 20:00</i> <i>Saturdays: 07:00 - 20:00</i>					
2.2.1	Site Supervisor (Min 3 years of Experience) (1 Off)	Hours	1	2660		
2.2.2	Storeman/Material Controller (Min 1 year of Experience) (1 Off)	Hours	1	2660		
2.2.3	Welding Coordinator (Min 3 years of Experience) (1 Off)	Hours	1	2660		
2.2.4	Safety Officer (Min 2 years of Experience) (1 Off)	Hours	1	2660		
2.2.5	Welding Inspector/QC (Min 3 years of Experience) (1 Off)	Hours	1	2660		
2.2.6	Pressure/Leak Test Technician (Min 3 years of Experience) (1 Off)	Hours	1	2660		
2.2.7	Welding Supervisor (Min 3 years of Experience) (1 Off)	Hours	1	2660		
2.2.8	Foreman – Piping and Mechanical (Min 3 years of Experience) (1 Off)	Hours	1	2660		
2.2.9	Electrician (Min 2 years of Experience) (1 Off)	Hours	1	2660		
2.2.10	Rigger (Min 2 years of Experience) (1 Off)	Hours	1	2660		
2.2.11	Overhead, Cherry Picker, and Sky Jack Operator (Plant will be provided by Employer) (1 Off)	Hours	1	2660		
2.2.12	Boiler Maker (Min 2 years of Experience) (2 Off)	Hours	1	2660		
2.2.13	Welder A Class (Min 3 Years of Experience) (2 Off)	Hours	1	2660		
2.2.15	Fitter – Mechanical (Min 2 years of Experience) (4 Off)	Hours	4	2660		
2.2.16	Fitter – Piping (Min 2 years of Experience) (4 Off)	Hours	4	2660		
2.2.17	Semi-skilled Labourer (Min 2 years of Experience) (4 Off)	Hours	4	2660		
2.2.18	Driver (22 Seater Bus) (1 Off)	Hours	1	2660		
	Subtotal Item 2.2 Normal Overtime & Saturdays					
2.3	SUNDAYS & P/H OVER TIME <i>Overtime: Sundays and Public Holidays working hours are working hours that fall within the following periods:</i> <i>Sundays: 07:00 - 20:00</i> <i>Public Holidays: 07:00 - 20:00</i>					
2.3.1	Site Supervisor (Min 3 years of Experience) (1 Off)	Hours	1	1096		
2.3.2	Storeman/Material Controller (Min 1 year of Experience) (1 Off)	Hours	1	1096		
2.3.3	Welding Coordinator (Min 3 years of Experience) (1 Off)	Hours	1	1096		
2.3.4	Safety Officer (Min 2 years of Experience) (1 Off)	Hours	1	1096		
2.3.5	Welding Inspector/QC (Min 3 years of Experience) (1 Off)	Hours	1	1096		
2.3.6	Pressure/Leak Test Technician (Min 3 years of Experience) (1 Off)	Hours	1	1096		
2.3.7	Welding Supervisor (Min 3 years of Experience) (1 Off)	Hours	1	1096		
2.3.8	Foreman – Piping and Mechanical (Min 3 years of Experience) (1 Off)	Hours	1	1096		
2.3.9	Electrician (Min 2 years of Experience) (1 Off)	Hours	1	1096		
2.3.10	Rigger (Min 2 years of Experience) (1 Off)	Hours	1	1096		
2.3.11	Overhead, Cherry Picker, and Sky Jack Operator (Plant will be provided by Employer) (1 Off)	Hours	1	1096		
2.3.12	Boiler Maker (Min 2 years of Experience) (2 Off)	Hours	2	1096		
2.3.13	Welder A Class (Min 3 Years of Experience) (2 Off)	Hours	2	1096		
2.3.15	Fitter – Mechanical (Min 2 years of Experience) (4 Off)	Hours	4	1096		
2.3.16	Fitter – Piping (Min 2 years of Experience) (4 Off)	Hours	4	1096		
2.3.17	Semi-skilled Labourer (Min 2 years of Experience) (4 Off)	Hours	4	1096		
2.3.18	Driver (22 Seater Bus) (1 Off)	Hours	1	1096		

ITEM NO.	DESCRIPTION	UNIT	NO. OFF	QTY	RATE	AMOUNT
3	Subtotal Item 2.3 Sundays & P/H Overtime					
	Sub-total Item 2 (Site Resources) carried to Summary					
	ITEM 3					
	TOOLS AND EQUIPMENT					
	Cleaning Equipment					
	3.1 High-Pressure Water Jet Cleaners (120 Bar 7m/unit) (2 Off for Five Years)	Once Off	1	2		
	3.1.1 Steel Scrubbing Brushes and Pads (10 Off Per Outage)	Per/Outage	26	10		
	3.1.3 Scrapers (10 Off Per Outage)	Per/Outage	26	10		
	3.1.4 Compressed Air Blower 600W 13000RPM (1 Off Per Year)	Per/Year	5	1		
	Visual Inspection					
	3.2.3 Flashlights and Headlamps (6 Off Per Outage)	Per/Outage	26	6		
	Cutting Equipment					
	3.3.1 Plasma Cutters 45Amp 220V (10 Off Per Year)	Per/Year	5	10		
	3.3.2 Oxy-Acetylene Torches (10 Off Per Year)	Per/Year	5	10		
	3.3.3 Angle Grinders (Power:900-1500 Watts, Disc Size:115mm or 125mm, Voltage: 220-240V AC) (10 Off Per Year)	Per/Year	5	10		
3.6	Consumables					
	3.6.1 Detergents (25L Rust Remover) (5 Off Per Outage)	Per Outage	26	5		
	3.6.2 Degreasers 20L(Multipurpose Grease, oil or spray. Application; Machinery, bearings, Gears. Base oil; Mineral oil, synthetic. NLGI Grade: 2 for greases. Viscosity: ISO VG) (5 Off Per Outage)	Per Outage	26	5		
	3.6.3 Rags, and wipes 5kg (5 Off Per Outage)	Per Outage	26	5		
	3.6.4 Polishing Compounds 20L (Liquid, paste, or wax, Application: Metal surfaces, plastics, glass, Grit Size: Fine to ultra-fine (1,000 - 3,000 grit), Features: Non-abrasive, fast-drying, silicone-free) (box of 20) (2 Off Per Outage)	Per Outage	26	2		
	3.6.5 Cutting Discs (box of 20): Type: Metal, stone, and multi-purpose, Diameter: 115mm or 125mm, Thickness: 1.0mm to 2.5mm, Material: Aluminium oxide or silicon carbide (1 Off Per Outage)	Per Outage	26	1		
	3.6.6 Welding Rods and Wire 5kg: (5 Off Outage)	Per Outage	26	5		
	3.6.8 Calibration Stickers and Tags(box of 20) (1 Off Outage)	Per Outage	26	1		
	3.6.9 Spray Paint: Silver 20L (5 Off Outage)	Per Outage	26	5		
	Wrenches and Spanners Sets					
	3.7.1 Open-End and Box-End Wrenches Set (Metric) - Sizes: 6 mm, 8 mm, 10 mm, 12 mm, 13 mm, 14 mm, 15 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm (4 Off Once per Year)	Per/Year	5	4		
	3.7.2 Adjustable Wrenches Set - Sizes: 6 inches, 8 inches, 10 inches, 12 inches, 15 inches, 18 inches (4 Off Once per Year)	Per/Year	5	4		
	3.7.3 Torque Wrench 1500-3000Nm	Once off	1	1		
	Socket Sets					
	3.8.1 Standard Socket Set (Metric) - Sizes: 4 mm, 5 mm, 5.5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm, 21 mm, 22 mm, 23 mm, 24 mm, 25 mm, 26 mm, 27 mm, 28 mm, 29 mm, 30 mm, 31 mm, 32 mm (1 Off Once per Year)	Per/Year	5	1		
	3.8.2 Deep Socket Set (Metric) - Sizes: 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 21 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm (1 Off Once per Year)	Per/Year	5	1		
3.9	Allen Key Sets (Hex Keys):					
	3.9.1 Metric Set - Sizes: 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 12 mm, 14 mm, 17 mm, 19 mm (1 Off Once per Year)	Per/Year	5	1		
	Screwdriver Sets					
	3.10.1 Flathead Screwdrivers - Sizes: 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 5.5 mm, 6 mm, 8 mm, 10 mm (2 Off Once per Year)	Per/Year	5	2		
	3.10.2 Phillips Screwdrivers - Sizes: #00, #0, #1, #2, #3, #4 (2 Off Once per Year)	Per/Year	5	2		
	Pliers Sets					
	3.11.1 Needle-Nose Pliers - Sizes: 4 inches, 6 inches, 8 inches (2 Off Once per Year)	Per/Year	5	2		
	3.11.2 Slip-Joint Pliers - Sizes: 6 inches, 8 inches, 10 inches (2 Off Once per Year)	Per/Year	5	2		
	3.11.3 Locking Pliers (Vise-Grips) - Sizes: 5 inches, 7 inches, 10 inches (2 Off Once per Year)	Per/Year	5	2		
	Hammers and Mallets Sets					
	3.12.1 Ball-Peen Hammers - Sizes: 4 oz, 8 oz, 12 oz, 16 oz, 24 oz, 32 oz (2 Off Once per Year)	Per/Year	5	2		
	3.12.2 Rubber Mallets - Sizes: 8 oz, 16 oz, 24 oz, 32 oz (2 Off Once per Year)	Once/Year	5	2		
	Pry Bars and Crowbars Sets					
	3.13.1 Pry Bars - Sizes: 6 inches, 12 inches, 18 inches, 24 inches (1 Off Once per Year)	Per/Year	5	1		
	3.13.2 Crowbars - Sizes: 12 inches, 18 inches, 24 inches, 30 inches, 36 inches (1 Off Once per Year)	Per/Year	5	1		
	Subtotal Item 3 (Tools and Equipment) carried to Summary					
ITEM 1	SUMMARY					
	PRELIMINARIES AND GENERALS					
	SITE RESOURCES					
	TOOLS AND EQUIPMENT					
Final Summary Total						