

BILL OF QUANTITIES

PROJECT : BOILER FLUE GAS DUCTINGS AND DAMPERS INSPECTIONS AND REPAIRS DURING OUTAGES FOR A PERIOD OF THREE (3) YEARS AT KUSILE POWER STATION

Item No.	Description	Unit	Qty	Duration	Rate	Amount
	PRELIMINARIES AND GENERAL					
1.1	Fixed					
1.1.1a	Site Establishment for: Delivery of Kitchen Converted Container	Once Off	1			
1.1.1b	Site Establishment for: Delivery of Steel Storage Container	Once Off	1			
1.1.1c	Site Establishment for: Delivery of Office Converted Containers	Once Off	2			
1.1.2a	Office Converted Containers L-12m; W-3m; H-2.69m (x 2No)	Once Off	2			
1.1.2b	Kitchen Converted Container L-11.62m; W-3.58m; H-2.69m (x 1No)	Once Off	1			
1.1.2c	Steel Storage Container L-12m; W-2.43m; H-2.69m (x 1No)	Once Off	1			
1.1.3	Standard PPE	Per Person	61	3		
1.1.4	Safety file	Once Off	1			
1.1.5	Medicals - Entry	Per Person	61	3		
	Medicals - Exit	Per Person	61	1		
1.1.6	Security Clearance Certification	No	61	3		
1.1.7	Welding PPE (Refer to the attached Welding PPE List)	Per Person	8	3		
1.2	Time Related					
1.2.1	Home-Work-Home (22 Seater Bus) - x 3No	Per Day	3	678		
1.2.2	Light Driven Vehicle - x 2No	Per Day	2	678		
1.2.3	6 Ton Truck (For Hire)	Per Day	1	678		
	Sub-total P&Gs:					
Item No.	Resource	Unit	Qty	Total Productive Hours for 3 Years	Hourly Rate	Amount
2	NORMAL HOURS					
2.1	Site Manager	Hours/Person	1	3592		
2.2	Supervisor	Hours/Person	2	3592		
2.3	Planner	Hours/Person	1	3592		
2.4	Site Clerk	Hours/Person	1	3592		
2.5	Safety Officer	Hours/Person	1	3592		
2.6	Electrical Artisan	Hours/Person	1	3592		
2.7	Quality Officer (Level 2)	Hours/Person	2	3592		
2.8	Material Controller/Storeman	Hours/Person	1	3592		
2.9	Semi-Skilled Assistants	Hours/Person	16	3592		
2.10	Mechanical Fitters	Hours/Person	6	3592		
2.11	Rigger	Hours/Person	4	3592		
2.12	Boilermaker	Hours/Person	6	3592		
2.13	Fire Watcher	Hours/Person	4	3592		
2.14	Welder B Class	Hours/Person	8	3592		
2.15	22 Seater Drivers	Hours/Person	3	3592		
2.16	6 Ton Truck Driver	Hours/Person	1	3592		
2.17	Welding Inspector	Hours/Person	1	3592		
2.18	Responsible person (PSR & ORHVS)	Hours/Person	2	3592		
	Sub-total Normal Hours:					
3	OVERTIME (WEEKDAYS) - x1.5				1.50	
3.1	Site Manager	Hours/Person	1	1796		
3.2	Supervisor	Hours/Person	2	1796		
3.3	Planner	Hours/Person	1	1796		
3.4	Site Clerk	Hours/Person	1	1796		
3.5	Safety Officer	Hours/Person	1	1796		
3.6	Electrical Artisan	Hours/Person	1	1796		
3.7	Quality Officer (Level 2)	Hours/Person	2	1796		
3.8	Material Controller/Storeman	Hours/Person	1	1796		
3.9	Semi-Skilled Assistants	Hours/Person	16	1796		
3.10	Mechanical Fitters	Hours/Person	6	1796		
3.11	Rigger	Hours/Person	4	1796		
3.12	Boilermaker	Hours/Person	6	1796		
3.13	Fire Watcher	Hours/Person	4	1796		
3.14	Welder B Class	Hours/Person	8	1796		
3.15	22 Seater Drivers	Hours/Person	3	1796		
3.16	6 Ton Truck Driver	Hours/Person	1	1796		
3.17	Welding Inspector	Hours/Person	1	1796		
3.18	Responsible person (PSR & ORHVS)	Hours/Person	2	1796		
	Sub-total Normal Hours - Overtime:					

4	OVERTIME (SATURDAYS) - x1.5				1.50	
4.1	Site Manager	Hours/Person	1	1176		
4.2	Supervisor	Hours/Person	2	1176		
4.3	Planner	Hours/Person	1	1176		
4.4	Site Clerk	Hours/Person	1	1176		
4.5	Safety Officer	Hours/Person	1	1176		
4.6	Electrical Artisan	Hours/Person	1	1176		
4.7	Quality Officer (Level 2)	Hours/Person	2	1176		
4.8	Material Controller/Storeman	Hours/Person	1	1176		
4.9	Semi-Skilled Assistants	Hours/Person	16	1176		
4.10	Mechanical Fitters	Hours/Person	6	1176		
4.11	Rigger	Hours/Person	4	1176		
4.12	Boilermaker	Hours/Person	6	1176		
4.13	Fire Watcher	Hours/Person	4	1176		
4.14	Welder B Class	Hours/Person	8	1176		
4.15	22 Seater Drivers	Hours/Person	3	1176		
4.16	6 Ton Truck Driver	Hours/Person	1	1176		
4.17	Welding Inspector	Hours/Person	1	1176		
4.18	Responsible person (PSR & ORHVS)	Hours/Person	2	1176		
	Sub-total Saturdays Hours:					
5	PUBLIC HOLIDAYS / SUNDAYS - x2				2.00	
5.1	Site Manager	Hours/Person	1	1572		
5.2	Supervisor	Hours/Person	2	1572		
5.3	Planner	Hours/Person	1	1572		
5.4	Site Clerk	Hours/Person	1	1572		
5.5	Safety Officer	Hours/Person	1	1572		
5.6	Electrical Artisan	Hours/Person	1	1572		
5.7	Quality Officer (Level 2)	Hours/Person	2	1572		
5.8	Material Controller/Storeman	Hours/Person	1	1572		
5.9	Semi-Skilled Assistants	Hours/Person	16	1572		
5.10	Mechanical Fitters	Hours/Person	6	1572		
5.11	Rigger	Hours/Person	4	1572		
5.12	Boilermaker	Hours/Person	6	1572		
5.13	Fire Watcher	Hours/Person	4	1572		
5.14	Welder B Class	Hours/Person	8	1572		
5.15	22 Seater Drivers	Hours/Person	3	1572		
5.16	6 Ton Truck Driver	Hours/Person	1	1572		
5.17	Welding Inspector	Hours/Person	1	1572		
5.18	Responsible person (PSR & ORHVS)	Hours/Person	2	1572		
	Sub-total for Public Holidays and Sundays Hours:					
Item No.	Description	Unit	Qty	No of Outages / No of Days	Rate	Amount
6	EQUIPMENT/TOOLS					
6.1	Welding Equipment (11.5 kg Cylinders) (4 per Outage)	Per Outage	4	16		
6.2	Welding Machine (80 cu/ft 75% Argon 25%) (4 per Day)	Per Day	4	678		
6.3	Welding Machines Electric 400A Complete (4 per Day)	Per Day	4	678		
6.4	Cutting Equipment (Plasma cutters, Oxy/Fuel cutting) (6 per Outage)	Per Outage	6	16		
6.5	Gas Apparatus (Storage Tanks, Regulators, Manifolds) (4 per Outage)	Per Outage	4	16		
6.6	Filler Mentals (Stick Ectrodes, Speciality wire) 5kg (10 Packs per Outage)	Per Pack/Outage	10	16		
6.7	GS-AX-B-001-G Oxygen Gas Monitor, LCD - Backlit (Gas Monitoring Equipment) (5 No Off)	Once Off	5			
6.8	500W Quartz On Short Stand portable lights (5 per Outage)	Per Outage	5	16		
6.9	3000LM 3x T6 Super Bright 3 modes Easy Operation (5 No Off)	Once Off	5			
6.10	DB Board 380/220V (1 per Day)	Per Day	1	678		
6.11	Fume Extraction Fan (2 per Outage)	Per Outage	2	16		
6.12	Rigging equipment (chain blocks, slings, ratchet lever hoists and Noga Quick release) (6 off per Outage)	Per Outage	6	16		
6.13	240V extension (100m long minimum) (5 per Outage)	Per Outage	5	16		
6.14	380V extension (100m long minimum) (5 per Outage)	Per Outage	5	16		
6.15	115mm Grinding Machines including Cutting discs (4 per Outage)	Per Outage	4	16		
6.16	9 Inch Grinding Machines including Cutting discs (4 per Outage)	Per Outage	4	16		
6.17	11.5 kg Cylinders - Dissolved Acetylene refill (As and when needed)	Per Cylinder	2	16		
	Sub-total for Equipment/Tools:					
TOTAL AMOUNT EXCL VAT						

Welding PPE List

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Item no	Description	Unit	Quantity	Rate	Amount
1	Welding Helmet	Each	1		
2	Welding Apron	Each	1		
3	Welding Gloves	Pair	1		
4	Welding Jacket	Each	1		
5	Welding Respirator	Each	1		
6	Ear plugs (Pack of 10)	Pair	1		
7	Ankle spats (Pair)	Pair	1		
8	Sleeves	Pair	1		
This amount must be transferred to the Rate Column on the BoQ/Price List (#1.1.7)					