PROJECT: STEAM SAMPLING SYSTEM C&I MAINTENANCE AT KUSILE POWER STATION FOR A PERIOD OF THREE (3) YEARS ON AN AS AND WHEN REQUIRED BASIS - REV 1

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ITEM 1				
1	PRELIMINARIES AND GENERAL				
1.1	Site Establishment for:Delivery of 6m x 3m Kitchen, 6m x 3m Office, 6m x 3m Ablution & 12m x 3m Storage	Once Off	1		
1.1	Site De-establishment for: 6m x 3m Kitchen, 6m x 3m Office, 6m x 3m Ablution & 12m x 3m Storage	Once Off	1		
1.3	PPE	Once/Year	18		
1.4	Safety file	Once Off	1		
1.5	Medicals - Entry	Once/Year	18		
1.6	Medicals - Exit	Once Off	6		
1.7	Police Clearance certification	Once/Year	18		
1.8	Site Office Container (Insulated, with Air-Con): 6m x 3m (1 Off)	Monthly	36		
1.9 1.10	Site Storage Container: 12m x 3m (1 Off) Site Kitchen Container: 6m x 3m (1 Off)	Monthly Monthly	36 36		
1.10	Ablution Unit (Serviced weekly) 6m x 3m (1 Off)	Monthly	36		
1.12	Site Bakkie 4 x 4 Single Cab (1 Off)	Monthly	36		
1.13	Travelling (Sedan 7 Seater) (1 Off)	Monthly	36		
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	Total for Item 1 (Preliminaries and General) Carried to Final Summary				
	ITEM 2				
2	RESOURCES				
0.4	NORMAL HOURS				
2.1	NORMAL HOURS				
2.1.1	Supervisor (Min 5 Year of Experience) (1 Off)	Hours	1248		
2.1.1	Safety Officer (Min 5 Years of Experience) (1 Off)	Hours	1248		
2.1.3	Technician (2 Off)	Hours	2496		
2.1.4	Assistant (2 Off)	Hours	2496		
	Sub-Total for Item 2.1 (Normal Hours)				
2.2	OVERTIME (WEEKDAYS & SATURDAYS)			1.50	
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2.2.1	Supervisor (Min 5 Year of Experience) (1 Off) Safety Officer (Min 5 Years of Experience) (1 Off)	Hours	1440 1440		
2.2.2	Technician (2 Off)	Hours Hours	2880		
2.2.3	Assistant (2 Off)	Hours	2880		
2.2.7	7,000 (4,10)	riodio	2000		
	Sub-Total for Item 2.2 (Overtime Weekdays and Saturdays)				
2.3	OVERTIME SUNDAYS & PUBLIC HOLIDAYS			2.00	
2.3.1	Supervisor (Min 5 Year of Experience) (1 Off)	Hours	736		
2.3.2	Safety Officer (Min 5Years of Experience) (1 Off) Technician (2 Off)	Hours Hours	736 1472		
2.3.4	Assistant (2 Off)	Hours	1472		
2.0.4	7,000 (4,10)	riodio	1472		
	Sub-Total for Item 2.3 (Overtime Sundays & Public Holidays)				
2.4	STANDBY				
2.4.1	Supervisor (Min 5 Year of Experience) (1 Off)	Days	432		
2.4.2	Safety Officer (Min 5Years of Experience) (1 Off)	Days	432		
2.4.3	Technician (2 Off)	Days	864		
2.4.4	Assistant (2 Off)	Days	864		
	Sub-Total for Item 2.4 (Standby)				
	ous rotal to nom 2.4 (Standay)				
	Total Item 2 (Resources) Carried to Final Summary				
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	ITEM 3				
3	SAMPLE ROOMS - REFURBISHMENT				
3.1	Isolation Globe V+C94 Valves	Each	6		
3.2	Pressure Gauges	Each	6		
3.3	Temperature Gauges Pressure Regulators: (VRTS)	Each	6		
3.4	Pressure Regulators: (VRTS) Pressure Diff Transmitters	Each Each	6		
3.6	Fittings, impulse lines and coolers	Each	6		
3.7	Coolant Flow indicators	Each	6		
3.8	Coolant Flow indicators [Inlet Header]	Each	6		
3.9	Thermal Shut-off Valves	Each	6		
3.10	Sample Flow Totaliser and Panels.	Each	6		
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	Total for Item 3 (Sample Rooms - Refurbishment) Carried to Final Summary				

	ITEM 4				
4	SAMPLE ROOMS - NEW SUPPLY				
4.1	Isolation globe valves	Each	6		
4.2	Pressure Gauges	Each	6		
4.3	Temperature Gauges	Each	6		
4.4	Pressure Regulators: (VRTS)	Each	6		
4.5	Pressure Diff Transmitters	Each	6		
4.6	Fittings, impulse lines and coolers	Each	6		
4.7	Coolant Flow indicators	Each	6		
4.8	Coolant Flow indicators [Inlet Header] Thermal Shut-off Valves	Each Each	6		
4.9	Sample Flow Totaliser and Panels.	Each	6		
4.10	Cample Flow Foldison and Fancis.	Luon	-		
	Total for Item 4 (Sample Rooms - New Supply) Carried to Final Summary				
	ITEM 5				
5	SAMPLE ROOMS SET-UP, ADJUSTMENT AND CALIBRATION				
5.1	Isolation globe valves	Each	6		
5.2	Pressure Gauges	Each	6		
5.3 5.4	Temperature Gauges Pressure Regulators: (VRTS)	Each Each	6		
5.4	Pressure Regulators: (VRTS) Pressure Diff Transmitters	Each	6		
5.6	Fittings, impulse lines and coolers	Each	6		
5.7	Coolant Flow indicators	Each	6		
5.8	Fittings, impulse lines and coolers	Each	6		
5.9	Thermal Shut-off Valves	Each	6		
5.10	Sample flow totaliser and panels.	Each	6		
	Total for Item 5 (Sample Rooms Set-Up, Adjustment & Calibration) Carried to Final Summary				
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6	ITEM 6 CPP SYSTEMS - REFURBISHMENT				
0	CPP 5751EM5 - REFURBISHMENT				
6.1	Isolation globe valves	Each	6		
6.2	Pressure Gauges	Each	6		
6.3	Temperature Gauges	Each	6		
6.4	Pressure Regulators: (VRTS)	Each	6		
6.5	Pressure Diff Transmitters	Each	6		
6.6	Fittings, impulse lines and coolers	Each	6		
6.7	Coolant Flow indicators	Each	6		
6.8	Coolant Flow indicators [Inlet Header] Sample Flow indicators [CPP Analysis Panel]	Each Each	6		
6.10	Sample Flow indicators [CPP Sample Panel]	Each	6		
6.11	Thermal Shut-off Valves	Each	6		
6.12	Sample flow totaliser and panels.	Each	6		
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	Total for Item 6 (CPP Systems - Refurbishment) Carried to Final Summary				
	ITEM 7				
7	CPP SYSTEMS - NEW SUPPLY				
7.4	Inglation globa values	Ec-b			
7.1 7.2	Isolation globe valves Pressure Gauges	Each Each	6		
7.2	Temperature Gauges	Each	6		
7.4	Pressure Regulators: (VRTS)	Each	6		
7.5	Pressure Diff Transmitters	Each	6		
7.6	Fittings, impulse lines and coolers	Each	6		
7.7	Coolant Flow indicators	Each	6		
7.8	Coolant Flow indicators [Inlet Header]	Each	6		
7.9	Sample Flow indicators [CPP Analysis Panel]	Each	6		
7.10	Sample Flow indicators [CPP Sample Panel]	Each	6		
7.11	Thermal Shut-off Valves	Each	6		
7.12	Sample flow totaliser and panels.	Each	6		
1	Total for Item 7 (CPP Systems - New Supply) Carried to Final Summary				
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	ITEM 8				
8	CPP SYSTEMS SET-UP, ADJUSTMENT AND CALIBRATION				
8.1	Isolation globe valves	Each	6		
8.2	Pressure Gauges	Each	6		
8.3	Temperature Gauges	Each	6		
8.4 8.5	Pressure Regulators: (VRTS) Pressure Diff Transmitters	Each Each	6		
8.6	Fittings, impulse lines and coolers	Each	6		
8.7	Coolant Flow indicators	Each	6		
8.8	Coolant Flow indicators [Inlet Header]	Each	6		
8.9	Sample Flow indicators [CPP Analysis Panel]	Each	6		
8.10	Sample Flow indicators [CPP Sample Panel]	Each	6		
8.11	Thermal Shut-off Valves	Each	6		
8.12	Sample flow totaliser and panels.	Each	6		
	Total for Item 8 (CPP Systems Set-Up, Adjustment & Calibration) Carried to Final Summary				
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	ITEM 9				
	CONSUMABLES				
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9.1	Nitrogen Gas Cylinder, Purging, 7kg	Each	1		
9.2	Refrigeration Grade Compressor Oil, 5I	Each	1		
9.3	R407C Gas Cylinder, Refrigerant, 13kg	Each	2		
9.4	Outsourced Labour & Travel Charges	Each	1		
	Total for Item 9 (Consumables) Carried to Final Summary				
	FINAL SUMMARY				
	I INAL COMMANT				
ITEM 1	PRELIMINARIES & GENERAL				
ITEM 2	RESOURCES				
ITEM 3	SAMPLE ROOMS - REFURBISHMENT				
ITEM 4	SAMPLE ROOMS - NEW SUPPLY				
	CAMPLE DOOMS OF UP AD WOTHERT AND CAMPDATION				
ITEM 5	SAMPLE ROOMS SET-UP, ADJUSTMENT AND CALIBRATION				
ITEM 6	CPP SYSTEMS - REFURBISHMENT				
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ITEM 7	CPP SYSTEMS - NEW SUPPLY				
l					
ITEM 8	CPP SYSTEMS SET-UP, ADJUSTMENT AND CALIBRATION				
ITEM 9	CONSUMABLES				
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