

BILL OF QUANTITIES

PROJECT: CLEANING OF CABLE TUNNELS, BASEMENTS, MANHOLES AND SMOKE STACK AS AND WHEN REQUIRED FOR THE PERIOD OF THREE (3) YEARS AT KUSILE POWER STATION

Item No	Description	Unit	Qty	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 + Changerooms with Showers	Once Off	3		
1.1.2	Kitchen Converted Container L-11.62m; W-3.58m; H-2.69m (x 1No)	Once Off	1		
1.1.3	Steel Storage Container L-12m; W-2.43m; H-2.69m (x 1No)	Once Off	1		
1.1.4	Office Converted Containers L-12m; W-3m; H-2.69m (x 2No)	Once Off	2		
1.1.5	Changerooms with showers and ablutions	Once Off	1		
1.1.6	Standard PPE - 43No Per/Year	Per Person	129		
1.1.7	Safety File	Once Off	1		
1.1.8	Medicals - Entry 43No Per/Year	Per Person	129		
	Medicals - Exit	Per Person	43		
1.1.9	Police Clearance Certificate - 43No Per/Year	No	129		
1.2	Time Related				
1.2.1	Home-Work-Home (23 Seater Bus) - x 2No	Monthly	72		
1.2.2	Light Driven Vehicle - x 1No	Monthly	36		
1.2.3	8 Ton truck - x 1No (For site usage)	Monthly	36		
1.3	Plant and Machinery Requirements				
1.3.1	Vaccum Truck (Hire)	No	72		
1.3.2	High Water Pressure Jetting Truck (Hire)	No	72		
1.3.3	30m long Hydraulic pipe (Hire)	No	72		
1.3.4	Tools and Equipments (Hire)	Sum	3		
	Total for P&Gs:				
Item No	Description	Unit	Qty	Rate	Amount
2	RESOURCES				
2.1	NORMAL HOURS				
2.1.1	Site Manager (Average Early-Career 5 - 9 years) - 1No off	Hours/Person	5868		
2.1.2	Site Supervisor (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	11736		
2.1.3	Safety Officer (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	11736		
2.1.4	Equipment Operators - Vaccum Truck (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	23472		
2.1.5	Equipment Operators - High water pressure jetting truck (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	23472		
2.1.6	General Worker (Average Early-Career 1 - 4 years) - 24No Off	Hours/Person	140832		
2.1.7	Spotter's - Level 1 (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	23472		
2.1.8	Vehicle Driver Level 2 (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	11736		
	Sub-Total for Normal Hours:				
2.2	OVERTIME (SATURDAYS) - Based on 3 Weekends a Month			1.50	
2.2.1	Site Supervisor (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	2592		
2.2.2	Safety Officer (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	2592		
2.2.3	Equipment Operators - Vaccum Truck (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	5184		
2.2.4	Equipment Operators - High water pressure jetting truck (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	5184		
2.2.5	General Worker (Average Early-Career 1 - 4 years) - 24No Off	Hours/Person	31104		
2.2.6	Spotter's - Level 1 (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	5184		
2.2.7	Vehicle Driver Level 2 (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	2592		
	Sub-Total for Overtime (Saturdays):				
2.2	OVERTIME (SUNDAYS) - Based on 3 Weekends a Month			2.00	
2.2.1	Site Supervisor (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	2592		
2.2.2	Safety Officer (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	2592		
2.2.3	Equipment Operators - Vaccum Truck (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	5184		
2.2.4	Equipment Operators - High water pressure jetting truck (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	5184		
2.2.5	General Worker (Average Early-Career 1 - 4 years) - 24No Off	Hours/Person	31104		
2.2.6	Spotter's - Level 1 (Average Early-Career 1 - 4 years) - 4No Off	Hours/Person	5184		
2.2.7	Vehicle Driver Level 2 (Average Early-Career 1 - 4 years) - 2No Off	Hours/Person	2592		
	Sub-Total for Overtime (Sundays):				
	Total for Resources:				

Item No.	External Works	Unit	Qty	Rate	Amount
3	CLEANING OF EXISTING FACILITIES				
3.1	Cleaning of existing facilities by means of High Water Pressure Jetting:				
3.1a	Auxiliary Bays				
3.1.1a	Auxiliary Bay - Unit 1-6 ACC	m2	4032		
3.1.2a	Auxiliary Bay - Unit 6 to Substation East	m2	3312		
3.1.3a	Auxiliary Bay - Unit 1 to West Wall	m2	3312		
3.1.4a	Auxiliary Bay - Unit 1-6 ACC (A)	m2	1530		
3.1.5a	Auxiliary Bay - Unit 1-6 ACC (B)	m2	240		
3.1.6a	Auxiliary Bay - Unit 1-6 Substation FGD (A)	m2	2655		
3.1.7a	Auxiliary Bay - Unit 1-6 Substation FGD (B)	m2	105		
3.2a	Tunnels				
3.2.1a	Tunnels - between FGD Unit 1 and 2	m2	945		
3.2.2a	Tunnels - between FGD Unit 2, 3 and 4	m2	2100		
3.2.3a	Tunnels - between FGD Unit 4, 5 and 6	m2	1500		
3.2.4a	Tunnels - between FGD Unit 5 and 6	m2	1538		
3.3a	Basements				
3.3.1a	ACC Electrical Substation Unit 1 - 6	m2	2685		
3.3.2a	CPP Electrical Substation Unit 1 - 6 (Ground Floor)	m2	2523		
3.3.3a	Auxiliary Bay 9 M level LV Switchgear Room Substations (Unit 1 - 6)	m2	1233		
3.3.4a	Auxiliary Bay 0 M level LV Switchgear Room Substations (Unit 1 - 6)	m2	1596		
3.3.5a	Auxiliary Bay 0 M level MV Switchgear Room Substations (Unit 1 - 6)	m2	1542		
3.3.6a	FFP Electrical Substation (Entire Building)	m2	993		
3.3.7a	GFD Electrical Substation	m2	2658		
3.3.8a	Compressor House East - Electrical Substation (Entire Building)	m2	5211		
3.3.9a	Compressor House West - Electrical Substation (Entire Building)	m2	5211		
3.3.10a	Substation South Switchgear Room (Entire Basement)	m2	5880		
3.3.11a	Hydrogen Electrical Substation	m2	984		
3.3.12a	Wastewater Electrical Substation	m2	1152		
3.3.13a	Water Treatment plant Electrical Substation	m2	2502		
3.3.14a	Fire Water Electrical Substation (Fire Water Pump Building)	m2	2865		
3.3.15a	Tunnels - between FGD Unit 5 and 6 (Entire Building)	m2	3603		
3.3.16a	Auxiliary Substation A Switchgear Room	m2	3291		
3.3.17a	Auxiliary Substation B Switchgear Room	m2	2607		
3.3.18a	Limestone and Emergency Ash handling Electrical Substation	m2	2607		
3.3.19a	10 Year Ash Electrical Substation	m2	2607		
3.3.20a	North Coal Stock Yard Electrical Substation	m2	2565		
3.3.21a	South Coal Stock Yard Electrical Substation	m2	2607		
3.3.22a	Dirty Dam Electrical Substation (Entire Building).	m2	2922		
3.4a	Manholes				
3.4.1a	MH 96 - Location	m3	8.03		
3.4.2a	MH 159 - Location	m3	8.03		
4	Allowance for supply of Heavy Duty Flooding Outdoor Woven Polypropylene Sand Bags with Solid Ties for UV Protection Emergency Situation on the tunnels and basements:				
4.1	Sandbags (15kg) for barrication of slurry	Each	6600		
5	Cart away surplus materials and/or slurry to disposal to a specific demarcation site as per the approval of Eskom Project Manager:				
5.1	Cartaway to disposal site.	Item	36		
6	INSPECTION AND PROTECTION OF EXISTING SERVICES				
6.1	Specialist equipment for the electrical detection on the tunnel basements	Monthly	36		
6.2	9kg DCP Fire Extinguisher	Each	3		
6.3	First aid kit on site	Each	3		
6.4	Labour for the use of equipment for detection existing cables	Monthly	144		
6.5	Medicals, Inductions, PPE	Sum	1		
6.6	Protection of the works and surrounding structures for the duration of the contract.	Sum	1		
6.7	Travelling	km	90000		
	Total for Cleaning of Existing Facilities:				
TOTAL AMOUNT EXCL VAT					