

SUBSTATION MAINTENANCE - BILL OF QUANTITIES

Item	Description	Unit	Qty	Supply Rate	Amount
DISCLAIMER: THE BOQ DOESN'T HAVE DEFAULT FORMULAR INSERTED. THEREFORE, ELIDZ WILL NOT BE LIABLE FOR CALCULATION ERROR ON THIS DOCUMENT					
SECTION A1 : ANNUAL CHARGES					
A1.1	Annual Preliminary & General				
A1.1.1	Provision of surety	Year	1	R	R
A1.1.2	Provision of insurances	Year	1	R	R
A1.1.3	Staff protective personal equipment	Year	1	R	R
A1.1.4	Staff induction	Year	1	R	R
A1.1.5	OHS compliance method statement	Year	1	R	R
A1.1.6	CEMP compliance method statement	Year	1	R	R
A1.1.7	Provision of Electronic Maintenance Manual	Year	1	R	R
A1.1.8	Provision of Updated drawings in AutoCAD format	Year	1	R	R
TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY				Sub Total	R
SECTION A2 : MONTHLY CHARGES					
A2.1	Monthly Preliminary & General				
A2.1.1	Monthly overheads & administration charges	Months	12	R	R
TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY				Sub Total	R
SECTION B1 : ROUTINE MAINTENANCE					
B1	Routine maintenance (inclusive of all labour, equipment, transport and related costs)				
B1.1	Complete monthly inspection & submit report in electronic format, recording works carried out, findings requiring attention and costs to resolve	No.	12	R	R
B1.2	Batteries Tested by means of a EC Series Electrochemical Analyser				
B1.2.1	Test & maintain Standby alternator lead acid battery	sum	180	R	R
B1.2.2	Test & maintain Nicad cells in BTU	sum	84	R	R
B1.2.3	Test & maintain UPS battery	sum	18	R	R
B1.3	Transformer - see attached NRS Recommendation				
B1.3.1	Complete Inspection, Testing and Maintenance under Live Conditions	sum	88	R	R
B1.4	Complete SBV4 Switchboard as per manufacturers standards				
B1.4.1	Complete Inspection, Testing and Maintenance under Live Conditions	sum	84	R	R
B1.5	Secondary type K, RM6 & ABB Safe Ring type switchgear as per manufacturers standards				
B1.5.1	Complete Inspection, Testing and Maintenance under Live Conditions	sum	96	R	R
B1.6	Electrical substation building				
B1.6.1	Clean all walls, floors, luminaires, doors, filters and lubricate locks (rate per complete substation/Node Room)	sum	96	R	R
B1.6.3	Clean all walls, floors, luminaires, doors, filters and lubricate locks (rate per complete Metered Switch Chamber)	sum	20	R	R
B1.7	Standby diesel alternator plant				
B1.7.1	Service, run (On load) and inspect complete alternator, engine , tank, exhaust, frame, auxiliary equipment to manufacturers specification	sum	18	R	R
B1.8	Miniature Substations - see attached NRS Recommendation				
B1.8.1	Complete Inspection, Testing and Maintenance under Live Conditions	sum	136	R	R
TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY				Sub Total	R
Item	Description	Unit	Qty	Supply & Install Rate	Amount
SECTION C1 : GENERAL MAINTENANCE					
C1	General maintenance (inclusive of 24 hour response with ELIDZ control and security office)				
C1.1	Apply specified DC/AC/VLF voltage test and complete test records (test fault/test clear).	sum	50	R	R
C1.2	Locate Cable Fault	sum	50	R	R
C1.4	Provide Switching Services for complete repair	sum	100	R	R
C1.5	MV Cable (XLPE) Joint kit - 185-240mm (heat shrink), including excavations and reinstatement	sum	20	R	R
C1.6	MV Cable (XLPE) Joint 70mm including excavations and reinstatement	sum	5	R	R
C1.7	LV Cable (PVCSWA) Joint 70mm mm including excavations and reinstatement	sum	10	R	R
C1.8	MV Cable XLPE 70 mm SWA 3 core	m	300	R	R
C1.10	MV Cable XLPE 185 mm SWA 3 core	m	300	R	R
C1.11	MV Cable (XLPE) Indoor Termination 50/95 mm	sum	15	R	R
C1.12	MV Cable (XLPE) Indoor Termination 120/300 mm	sum	15	R	R
TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY				Sub Total	R
SECTION D1 : PROVISIONAL CHARGES					
Item	Description	Unit	Qty	Supply & Install Rate	Amount
SECTION D1 : PROVISIONAL SUMS					
D1.1	Call out (inclusive of all labour, equipment, transport and related costs)				
D1.1.1	Emergency response (Immediate)	hr	300	R	R
D1.1.2	Urgent response (24 hours)	hr	300	R	R
D1.1.3	Routine response (extra over during normal working hours)	hr	300	R	R
D1.2	Labour additional to scheduled works				
D1.2.1	Electrical Technician	hr	480	R	R
D1.2.2	Semi Skilled Labour	hr	480	R	R
D1.2.3	Labour	hr	480	R	R
D1.3	Travelling additional to scheduled works				
D1.3.1	LDV	km	4000	R	R
D1.3.2	Truck - 8 Ton	hr	20	R	R
D1.4	Provisional Allowance for replacement equipment				
	The total amount for sectin D1.4 must be inclusive of provided provisional sum & profit and attendace bidded % amount				
D1.4.1	Consumables like fuel, oil and filters etc	Sum	1	R	180 000.00
D1.4.2	Profit and Attendance	%	%		R
D1.4.3	Provisional Sum for Annual Standby Generator Plant Maintenance	Sum	1	R	100 000.00
D1.4.4	Profit and Attendance	%	%		R
D1.4.5	Provisional Sum for UPS Plant Replacement	Sum	1	R	300 000.00
D1.4.6	Profit and Attendance	%	%		R
D1.4.5	Provisional Sum for Annual Protection Maintenance	Sum	1	R	450 000.00

D1.4.6	Profit and Attendance	%	%		R
D1.4.7	Contingency Sum - Provisional Sum for Bulk Service Equipments	Sum	1	R	900 000.00 R 900 000.00
D1.4.8	Profit and Attendance	%	%		R
D1.4.9	Provide the following for the services of specialist site management to plan, implement and control daily site activities - subject to agreement with ELIDZ	Sum	1	R	500 000.00 R 500 000.00
D1.4.10	Profit and Attendance - Mark up on Item D1.4.9 for the Contractor's administrative cost and profit (State % and extend as an amount) Not applicable where works are executed by the contractor.	%	%		R
TOTAL FOR SCHEDULE CARRIED FORWARD TO SUMMARY				Sub Total	R
SUMMARY					
SECTION A1 : ANNUAL CHARGES					R
SECTION A2 : MONTHLY CHARGES					R
SECTION B1 : ROUTINE CHARGES					R
SECTION C1 : GENERAL MAINTENANCE					R
SECTION D1 : PROVISIONAL SUMS					R
The total amount for sectin C1.4 must be inclusive of provided provisional sum & profit and attendace bidded % amount					
Nett Tender Sum for Year 1					R
Nett Tender Sum for Year 2 (Escalated)		%		%	R
Nett Tender Sum for Year 3 (Escalated)		%		%	R
Total for 3 (Three) Year Term					R
Add VAT @ 15%					R
Gross Tender Sum carried to Form of Offer					R