

SCHEDULE OF REQUIREMENTS

(To be completed by the Client) (Project Manager)

A. SWITCHGEAR AND CONTROLGEAR

Number of switching devices required :

System voltage nominal voltage : 11K Volts.....

Number of Phases : 3 Phase.....

Frequency (Hz) : 50 Hz.....

1.0. NEUTRAL EARTHING

1.1. Unearthed : N/A.....

1.2. Solidly earthed : Yes.....

1.3. Reactance earthed : N/A.....

1.4. Resistance earthed : N/A.....

2.0. BATTERY SUPPLY**2.1. CLOSING SUPPLY**

Rated voltage : ... 110 Volts DC.....

2.2. TRIPPING SUPPLY

Rated voltage : ... 110 Volts DC

3.0. BUSBARS

3.1. Rated nominal current : 630 Amperes.....

3.2. Dimensions:

Width : ... To match the current rating mm.

Thickness : ... To match the current rating mm.

4.0. BUSBAR EARTING

Required; Yes

5.0. SPECIAL REQUIREMENTS FOR BUSBAR AERTHING

N/A.....

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6.0. REMOTE DEPENDANT CONTROL SYSTEM

Required; Yes

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B. SWITCHING DEVICES**1.0. UNIT NUMBER. (Panel No.)**

	: Refer to the Bill of Quantities
Designation/ Drawing Number	: Refer to the Bill of Quantities
Circuit Breaker	: Refer to the Bill of Quantities
Fuse Switch combination	: Refer to BBC6467 and the Bill of Quantities
Disconnecter	: Refer to BBC6467 and the Bill of Quantities
Incoming or outgoing	: Refer to BBC6467 and the Bill of Quantities
If outgoing- destination	:
With-or-non-withdrawable	: W
Rated Nominal Current	: 630 A
Rated Nominal circuit breaking current	: 20kA
Rated short time withstand current for disconnector	: 20kA
Type and size of cable	11kV rated XLPE cables with suitable current ratings

Voltage Transformer ratio 11kV/110V, 6.6kV-11kV/110 :

C. PROTECTION SCHEDULE**2.0. UNIT NUMBER. (Panel No.)**

: Refer to the Bill of Quantities

1.0. OVERCURRENT

Number of elements	: Minimum of two (2)
IDMT Curve	: R (Refer to BBB4182, clause 10.2 and 11)
IDMT Extremely Inverse	: R (Refer to BBB4182, clause 10.2 and 11)
High Set Instantaneous	: R (Refer to BBB4182, clause 10.2 and 11)
Definite Time	: R (Refer to BBB4182, clause 10.2 and 11)

2.0. EARTH FAULT

Number of elements	: Minimum of one
IDMT Inverse	: R (Refer to BBB4182, clause 10.2 and 11)
IDMT Extremely Inverse	: R (Refer to BBB4182, clause 10.2 and 11)
High Set Instantaneous	: R (Refer to BBB4182, clause 10.2 and 11)
Instantaneous	: R (Refer to BBB4182, clause 10.2 and 11)
Definite Time	: R (Refer to BBB4182, clause 10.2 and 11)
Sensitive Earth Fault	: R (Refer to BBB4182, clause 10.2 and 11)

3.0. AUTO RECLOSING

: R (Refer to BBB4182, clause 11.3)

4.0. DIFFERENTIAL PILOT WIRE

: Refer to the Bill of Quantities

5.0. TRANSFORMER

Restricted Earth Fault	: R (Refer to BoQ)
Differential	: R (Refer to BoQ)
Tank Earth	: N/R
Gas Detection	: R (Refer to BBB4182 & BBC6467)

APPENDIX 1**SCHEDULE OF REQUIREMENTS**

(To be completed by the Client) (Project Manager)

TRANSFORMER (continues)

Winding Over Temperature	: R (Refer to BBC6467 clause 7.9.2.2)
Top Oil Temperature	: R (Refer to BBB4182 & BBC6467)
6.0. INTERTRIPPING	: R (Refer to BBC6467)
7.0. OTHER	: N/A
8.0. SPECIAL REQUIREMENTS	: N/A

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D. CURRENT TRANSFORMER

1.0. UNIT NUMBER (Panel No.)	: Refer to BBC6467
1.1. Overcurrent and Earth Fault	
Ratio	:
1.2. Accuracy	
Limit Factor	: Refer to BBB4182, clause 14.
Class	: Refer to BBC6467, Appendix 1
1.3. Differential	
Pilot wire	: Refer to BBC6467,
Feeder Ratio	: Refer to BBC6467,
Class X	: Refer to BBC6467,
1.4. FRAME LEAKAGE	
Ratio	: Refer to BBC6467, Bill of Quantities
Class of Accuracy	: Refer to BBB4182, clause 14.2
Accuracy Limit Factor	:
1.5. Transformer Restricted Earth Fault	
Ratio	: N/A
Class of Accuracy	: N/A
Accuracy Limit Factor	: N/A
1.6. Transformer Differential Protection	
Higher Voltage Winding Ratio	: N/A
Lower Voltage Winding Ratio	: N/A
Class of Accuracy	: N/A
Accuracy Limit Factor	: N/A
Tank Earth Protection	
Ratio	: N/A
Class of Accuracy	: N/A
Accuracy limit Factor	: N/A

SCHEDULE OF REQUIREMENTS

(To be completed by the Client) (Project Manager)

E. INSTRUMENT**1.0. UNIT NUMBER (Panel No.)**

: Refer to BBC6467, Bill of Quantities

Voltmeter

:Refer to BBC6467 clause 7.10 and the Bill of Quantities

Frequency Meter

: not required.

Ammeter

: Refer to BBC6467

Ammeter Maximum Demand

: Refer to BBC6467 clause 7.5.4.4

Power Factor Meter

: not required

kWH Meter (if required)

: Refer to BBC6467 and the Bill of Quantities

Current Transformer Ratio

: Refer to BBC6467, Bill of Quantities

3.0. SPECIAL REQUIREMENTS:

N/A

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Company Name	
Signature	
Date	