	Standard	Transmission Western Grid
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Title: **Western Grid In- and Out-Commissioning Sheets**

Document Identifier: **240-113729030**

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Number:

Area of Applicability: **Eskom Holdings SOC Ltd**


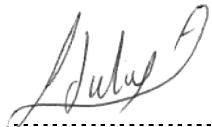

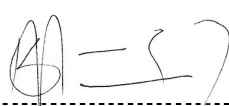
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Grid**

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1. Introduction

The following document was produced in order to clearly define the requirements for in- and out-commissioning sheets for the Western Grid Transmission substations. It is based on the requirements set out by TST 41-141. This document and sheets serves to replace TST 41-141 Appendix B in the Western Grid only.

2. Supporting Clauses

2.1 Scope

2.1.1 Purpose

This document provides the required forms/sheets to be completed when commissioning and decommissioning assets at Western Grid Transmission substations.

2.1.2 Applicability

This document shall only apply to Transmission substations within the Western Grid.

2.1.3 Effective date

The effective date is the date when the document is authorised.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] ISO 9001 Quality Management Systems

2.2.2 Informative

[2] 240-133681615 Capturing of Information about Transmission Plant

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2.3 Definitions

Definition	Explanation
Form	A document (printed or electronic) with spaces in which to write or enter data.
Project Leader	An appointed person who is responsible for the project execution.

2.4 Abbreviations

Abbreviation	Explanation
∅	Phase
AC	Alternating Current
Amp	Amperes
B _∅	Blue Phase
CT	Current Transformer
CVT	Capacitive Voltage Transformer
DC	Direct Current
EA	Engineering Assistant
ERTU	Enhanced Remote Terminal Unit
GPS	Global Positioning System
HMI	Human Machine Interface
HV	High Voltage
ITM	Internal Tariff Metering
kA	Kilo Amperes
kV	Kilo Volts
LV	Low Voltage
No	Number
P&WP	Performance and Works Planning department
PCB	Polychlorinated Biphenyl
Prot	Protection
R _∅	Red Phase
RTU	Remote Terminal Unit
SAP PM	SAP Plant Maintenance Module
SF ₆	Sulphur Hexafluoride Gas
Ter/Aux	Tertiary/Auxiliary
VT	Voltage Transformer
W _∅	White Phase

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2.5 Roles and Responsibilities

It is the asset owners' responsibility to ensure that their staff applies this document where relevant.

- The project leader
 1. Needs to complete the in- and out- commissioning sheets accurately and entirely with photos of the new asset's nameplate.
 2. Needs to ensure that a copy of the TST 41-141 and in- and out- commissioning sheets are submitted to the EA and Performance & Works Planning data capturers with all the required signatures before hand-over, as per defined requirements according to TST41-141.
- The EA, Senior Supervisor, Secondary Plant and L&S Commissioning Technician
 1. Need to ensure that the completed TST 41-141 and relevant in- and out-commissioning Sheets are filed on site, at the relevant depot or as per records matrix applicable to the business unit concerned.
 2. Need to ensure that an ad-hoc work order is requested and completed for the replacement of the equipment relevant to their department.
- The Performance and Works Planning data capturers
 1. Will ensure that the in- and out- commissioning sheets reflect the requirements according to TST 41-141, 240-133681615 and SAP Plant Maintenance Database.
 2. Will record the information of commissioned and decommissioned equipment.
 3. Will create or adjust the maintenance plans based on the commissioned equipment.
 4. Will deactivate the maintenance plans for decommissioned equipment.

2.6 Process for Monitoring

It is the responsibility of the P&WP department to ensure that this document is relevant to the business and it will monitor compliance.

2.7 Related/Supporting Documents

[3] TST 41-141 Inspection sheets for Substation Equipment to be taken over by asset owner

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3. DOCUMENT CONTENT

3.1 INTRODUCTION

The following document was produced in order to clearly define the requirements for in- and out-commissioning sheets for the Western Grid Transmission substations. It is based on the requirements set out by TST 41-141. This document and sheets serves to replace TST 41-141 Appendix B in the Western Grid only.

This document aims to ensure that the quality of data is aligned with the CARAT principle and the Back2Basics principles.

This document will enhance the data quality as follows:

- Complete – Ensuring that all the information of commissioned and decommissioned equipment has been recorded.
- Accurate - Ensure that the data has been accurately captured on the commissioning sheet and a photo of the asset's nameplate attached as proof. This will assist the data capturer to accurately capture the equipment information.
- Relevant – The information is valid and up to date.
- Accessible – Ensure that the information exists and is readily available on SAP PM.
- Timeous – Ensure the equipment information is submitted before hand-over and the data recorded on SAP PM.

Copies of the relevant in- and out- commissioning sheets need to be submitted to the Performance & Works Planning data capturers with TST 41-141 and a copy must be filed at the relevant substation.

3.2 CONCLUSION AND RECOMMENDATION

The completion of the forms and supporting photos will ensure equipment is accurately and timeously captured thus maintaining plant data integrity within SAP PM.

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
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L Geldenhuis	Chief Engineer
T Salaze	Acting Performance & Works Planning Manager
R Peense	HV Plant Manager (Western Cape)
K Rankunyane	Secondary Plant Manager (Western Cape)
T Salaze	Lines & Servitude Manager (Western Cape)
P Sereme	HV Plant Manager (Northern Cape)
R George	Secondary Plant Manager (Northern Cape)
P Machisa	Lines & Servitude Manager (Northern Cape)

5. Revisions

Date	Rev.	Compiler	Remarks
November 2015	0	C Bonze	New Document
May 2021	1	C Bonze	Change and add additional commissioning sheets. Supersedes 240-100838944.

6. Development Team

The following people were involved in the development of this document:

- Candace Bonze - Performance & Works Planning

7. Acknowledgements


- Lorice Julius
- Alec Aylward
- Emile Adams
- Joe Verissimo
- Simphiwe Mawu
- Avhaphani Luvhengo
- Johan Hamman

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Annexure A : AUX TRANSFORMER COMMISSIONING SHEET

		Auxiliary Transformer In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number							
Primary Voltage				Secondary Low Voltage			
Apparent Power				No of Tap positions			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number							
Primary Voltage				Secondary Low Voltage			
Apparent Power				No of Tap positions			
Mass				Oil Quantity			
Equipment is		New		Obtained from another position			
COOLING							
Air Natural				Oil Forced Air Forced			
Oil Natural Air Forced				Oil Natural Air Natural			
OPEN OR SEALED UNIT							
Open Unit				Sealed Unit			

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				Auxiliary Transformer In- and Out- Commissioning Sheet							
VECTOR (PRIMARY/SECONDARY)											
31DY1		32YD1		32YD9		33YZ1		33YZ11		41DY11	
41DY3		42YD1		42YD11		43YZ11		DY1		DY11	
DY3		DY9		DYN1		DYN11		Interstar		YD1	
YD11		YD7		YD9		YND1		YND11		YND7	
YNYN0		YNZ1		YNZ11		YNZ7		YZ1		YZ11	
YZ7		YZN11		ZNY11		ZNYN11		ZY11		ZYN	
Notes:											
	Name				Signature				Date		
Data provided by											
Erected by											
Handed Over by/to											


Photo of Nameplate attached	YES	
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Annexure B : BATTERY BANK COMMISSIONING SHEET

		Battery Bank In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number				Cell Design	
Number of Cells				DC voltage	
Equipment is		New		Obtained from another position	
TYPE					
Carrier Battery Bank				Station Battery Bank	
Notes:					
		Name		Signature	
		Date			
Data provided by					
Erected by					
Handed Over by/to					
Photo of Nameplate attached		YES			

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Annexure C : BATTERY CHARGER COMMISSIONING SHEET


		Battery Charger In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number				DC voltage	
				AC voltage	
Equipment is		New		Obtained from another position	
TYPE					
Carrier Battery Charger				Station Battery Charger	
CHARGER TYPE					
Phase Control				Switch Mode	
Notes:					
		Name		Signature	
Data provided by					
Erected by					
Handed Over by/to					

Photo of Nameplate attached	YES	
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Annexure D : BREAKER COMMISSIONING SHEET

		Breaker In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kA Rating/Rupture Capacity							
Nominal Current				Nominal AC Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kA Rating/Rupture Capacity							
Nominal AC Voltage				Nominal Current			
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Air		Bulk Oil Volume		GIS		SF6 Gas	
SF6 Gas Dead Tank		Small Volume Oil		Vacuum			
ARC QUENCHING MEDIUM							
Air		Oil		SF6 Gas		Vacuum	

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		Breaker In- and Out- Commissioning Sheet					
OPERATING METHOD							
Hydraulic		Manual		Motor		Pneumatic	
Solenoid		Spring		Weight			
TYPE							
1Pole 1Mech Bkr		3Pole 1Mech Bkr		3Pole 3Mech Bkr			
Notes:							
	Name			Signature		Date	
Data provided by							
Erected by							
Handed Over by/to							
Photo of Nameplate attached		YES					

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Annexure E : BREAKER MECHANISM COMMISSIONING SHEET

		Breaker Mechanism In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kA Rating/Rupture Capacity							
Nominal Current				Motor Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kA Rating/Rupture Capacity							
Nominal Current				Motor Voltage			
Equipment is		New		Obtained from another position			
COIL VOLTAGES							
30 Volt dc		50 Volt dc		110 Volt dc		220 Volt dc	
OPERATING METHOD							
Hydraulic		Manual		Motor		Pneumatic	
Solenoid		Spring		Weight			

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		Breaker Mechanism In- and Out- Commissioning Sheet	
HEATERS PRESENT			
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
POINT ON WAVE SWITCHING			
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Notes:			
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			

Photo of Nameplate attached	YES	<input type="checkbox"/>
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Annexure F : BUSHING COMMISSIONING SHEET


		Bushing In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _Ø		W _Ø		B _Ø	
Nominal Current				Nominal AC Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _Ø		W _Ø		B _Ø	
Nominal Current				Nominal AC Voltage			
Catalogue or LF Number							
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Air		Gas Insulated Switchgear		Oil		SF6 Gas	
Notes:							
		Name		Signature		Date	
Data provided by							
Erected by							
Handed Over by/to							


Photo of Nameplate attached	YES	
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Annexure G : CAP BANK COMMISSIONING SHEET

		Capacitor Bank In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _Ø		W _Ø		B _Ø	
MVar Rating				Number of Cans			
Capacitance/Unit				Nominal AC Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _Ø		W _Ø		B _Ø	
MVar Rating				Number of Cans			
Capacitance/Unit				Nominal AC Voltage			
Power Per Unit				Units in Parallel/Group			
Units in Series/Leg				Unit Voltage Rating			
Equipment is		New		Obtained from another position			
FUSE TYPE							
Internal				External			
				Fuseless			
CAP BANK TYPE							
Series				Shunt			
Single Phase				Three phase			
PCB				NPCB			

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		Capacitor Bank In- and Out- Commissioning Sheet			
BANK CONFIGURATION					
1H		1H Star		2 Bank 1 Star Cap Earthed	
2 Bank 2 Star Cap Earthed		2 Bank 2 Star Unearthed		2H in series	
4H in series		C Type Filter 1H Star		Delta	
Delta Star		Double Star Capacitor Earthed		Double Star Earthed	
Double Star Unearthed		Single Star Capacitor Earthed		Single Star Earthed	
Single Star Unearthed		U			
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					

Photo of Nameplate attached	YES	
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Annexure H : COUPLING CAPACITOR COMMISSIONING SHEET


		Coupling Capacitor In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		R _Ø		W _Ø	B _Ø
Rated Voltage				Normal Creepage Distance	
Capacitance				Nominal AC Voltage	
Equipment will be		Scrapped		Repaired	Moved to new position
					Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		R _Ø		W _Ø	B _Ø
Rated Voltage				Normal Creepage Distance	
Capacitance				Nominal AC Voltage	
Equipment is		New		Obtained from another position	
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					


Photo of Nameplate attached	YES	
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Annexure I : CT COMMISSIONING SHEET

		Current Transformer In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
No of Meter Cores			No of Buszone Cores		No Protection Cores		
Equipment will be		Scrapped		Repaired		Moved to new position	Stores
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
No of Meter Cores			No of Buszone Cores		No Protection Cores		
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Dead Tank Breaker CT			Gas Insulated Switchgear		Oil/Paper		SF6 Gas
							Solid Resin

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		Current Transformer In- and Out- Commissioning Sheet			
FUNCTION					
F-Over CT		Line CT		Neut CT	
S-Gap CT		Unbal CT		Zero-Flux CT	
Notes:					
	Name	Signature		Date	
Data provided by					
Erected by					
Handed Over by/to					

Photo of Nameplate attached	YES	
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Annexure J : CURRENT LIMITING REACTOR COMMISSIONING SHEET


		Current Limiting Reactor In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _Ø		W _Ø		B _Ø	
Nominal Current							
Inductance				Nominal AC Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _Ø		W _Ø		B _Ø	
Nominal Current							
Inductance				Nominal AC Voltage			
Equipment is		New		Obtained from another position			
Notes:							
	Name			Signature		Date	
Data provided by							
Erected by							
Handed Over by/to							


Photo of Nameplate attached	YES	
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Annexure K : CVT COMMISSIONING SHEET

		Capacitive Voltage Transformer In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Dead Tank Breaker CT			Gas Insulated Switchgear		SF6 Gas		Solid resin
Notes:							

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		Capacitive Voltage Transformer In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			


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Annexure L : EARTH SWITCH COMMISSIONING SHEET

		Earth Switch In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R ₀		W ₀		B ₀	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R ₀		W ₀		B ₀	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Air			Gas Insulated Switchgear		Oil		SF6 Gas
Notes:							

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		Earth Switch In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			


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Annexure M : FEEDER BAY NAME CHANGE COMMISSIONING SHEET

		Feeder Name Change Commissioning Sheet	
Grid			
CLN			
Substation			
Decommissioning Date			
Feeder Bay Change From			
Feeder Bay Change To			
Commissioning Date			
Reason for Change			
Indicate any change in Serial Numbers below. Use appropriate In- and Out- Commissioning Sheet for the equipment change			
Equipment 1:			
Equipment 2:			
Equipment 3:			
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			
HV Plant			
Secondary Plant			
Lines & Servitude			

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Annexure N : GAS ANALYSER COMMISSIONING SHEET


		Gas Analyser In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number				AC voltage	
Equipment will be	Scrapped		Repaired		Moved to new position
					Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number				AC voltage	
Equipment is	New		Obtained from another position		
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					


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Annexure O : ISOLATOR COMMISSIONING SHEET

		Isolator In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				kA Rating			
Nominal Current				No of integral switches			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				kA Rating			
Nominal Current				Nominal AC Voltage			
				No of integral switches			
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Air		Gas Insulated Switchgear		Oil		SF6 Gas	

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		Isolator In- and Out- Commissioning Sheet					
ISOLATOR TYPE							
Centre Break		Centre Pivot		Ganged		Knee Type	
Pantograph		Side Pivot		Single		Vertical Break	
OPERATING METHOD							
Hydraulic		Manual		Motor		Pneumatic	
Solenoid		Spring		Weight			
Notes:							
	Name		Signature		Date		
Data provided by							
Erected by							
Handed Over by/to							
Photo of Nameplate attached		YES					

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Annexure P : LINE TRAP COMMISSIONING SHEET


		Line Trap In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R ₀		W ₀		B ₀	
kA Rating				Nominal AC Voltage			
Nominal Current				Inductance			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R ₀		W ₀		B ₀	
kA Rating				Nominal AC Voltage			
Nominal Current				Normal Creepage Distance			
Inductance				Exceptional Creepage Distance			
Equipment is		New				Obtained from another position	
Notes:							
		Name		Signature		Date	
Data provided by							
Erected by							
Handed Over by/to							

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Annexure Q : LME COMMISSIONING SHEET

		Line Matching Equipment In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		Rø		Wø	
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		Rø		Wø	
				Bø	
LME Bandwidth Type					
X-Band Pass		X-High Pass		Z-Band Pass	
Equipment is		New		Obtained from another position	
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					

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Annexure R : LOAD SHED SCHEME COMMISSIONING SHEET


		Load Shed Scheme In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment is		New		Obtained from another position	
LOAD SHED SCHEME TYPE					
Under Frequency		Under Volt		Out of Step	
Notes:					
Name		Signature		Date	
Data provided by					
Erected by					
Handed Over by/to					


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Annexure S : MEASUREMENTS POINT TRANSDUCER COMMISSIONING SHEET

		Measurements Point Transducer In- and Out-Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment is		New		Obtained from another position	
AUXILIARY SUPPLY					
100...240Vac/dc		110/220Vac		110Vac	
220Vac		Self			
MEASURAND					
Amp		Amp/Volt/VAr/Watt/Hz		VAr	
VAr/Watt		Volt		Watt	
OUTPUT RANGE					
-5mA..0...+5mA		0...+5mA		0...+5mA / -5mA..0...+5mA	
TRANSDUCER CLASS					
0,2 %		0,5 %		1,0 %	
Notes:					

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		Measurements Point Transducer In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			


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Annexure T : MEASUREMENTS POINT INDICATOR COMMISSIONING SHEET

		Measurements Point Indicator In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment is		New		Obtained from another position	
INDICATING INSTRUMENT					
Zero in de-energised position		Correctly Scaled		Transducer Driven	
Direct Driven		Digital			
INSTRUMENT SIZE					
144x144		96x96		72x72	
AUXILIARY SUPPLY					
100...240Vac/dc		110/220Vac		110Vac	
220Vac		Self			
INDICATION					
Amp		Amp/Volt/VAr/Watt/Hz		VAr	
VAr/Watt		Volt		Watt	
OUTPUT RANGE					
-5mA..0..+5mA		0..+5mA		0..+5mA / -5mA..0..+5mA	

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Measurements Point Indicator In- and Out-
Commissioning Sheet

Notes:

	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			

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Annexure U : METER POINT CUSTOMER METER COMMISSIONING SHEET


		Meter Point Customer Meter In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
FUNCTION					
Boundary Metering		Internal Tariff Metering		Stat Metering	
TYPE					
Check Meter			Main Meter		
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer		Manufacturing Date			
Model Number					
Serial Number					
Equipment will be	Scrapped	Repaired	Moved to new position	Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer		Manufacturing Date			
Model Number					
Serial Number					
Equipment is	New	Obtained from another position			
Notes:					
	Name	Signature		Date	
Data provided by					
Erected by					
Handed Over by/to					

Photo of Nameplate attached	YES	
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Annexure V : NEC TRANSFORMER COMMISSIONING SHEET


		Neutral Earthing Compensator In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Apparent Power				Nominal AC Voltage	
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Apparent Power				Nominal AC Voltage	
Equipment is		New		Obtained from another position	
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					

Photo of Nameplate attached	YES	
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Annexure W : NEC/NER TRANSFORMER COMMISSIONING SHEET


		NEC/NER Combination Transformer In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Apparent Power				Nominal AC Voltage	
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Apparent Power				Nominal AC Voltage	
Equipment is		New		Obtained from another position	
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					


Photo of Nameplate attached	YES	
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Annexure X : NEC/NER/AUX TRANSFORMER COMMISSIONING SHEET

		NEC/NER/AUX Combination Transformer In- and Out-Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Primary Voltage				Secondary Low Voltage	
Apparent Power				No of Tap positions	
Nominal Current				Nominal AC Voltage	
Neutral CT Ratio				Impedance at Nominal Tap	
Time to Neutral					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Primary Voltage				Secondary Low Voltage	
Apparent Power				No of Tap positions	
Nominal Current				Nominal AC Voltage	
Neutral CT Ratio				Impedance at Nominal Tap	
Time to Neutral					
Equipment is		New		Obtained from another position	

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Annexure Y : ONLINE OIL DRYERS COMMISSIONING SHEET


		Online Oil Dryers In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment is		New		Obtained from another position	
Notes:					
		Name		Signature	
		Date			
Data provided by					
Erected by					
Handed Over by/to					


Photo of Nameplate attached	YES	
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Annexure Z : POWER REACTOR COMMISSIONING SHEET

		Power Reactor In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number	R _Ø		W _Ø		B _Ø		
kV Ratio	HV		LV		Ter/Aux		
Full Load Amps	HV		LV		Ter/Aux		
Reactive Power				kA Rating			
Neutral Earth	Yes		No		Oil Quantity(Main Unit)		
Equipment will be	Scrapped		Repaired		Moved to new position		Stores
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number	R _Ø		W _Ø		B _Ø		
kV Ratio	HV		LV		Ter/Aux		
Full Load Amps	HV		LV		Ter/Aux		
Reactive Power				kA Rating			
Neutral Earth	Yes		No		Oil Quantity(Main Unit)		
Equipment is	New			Obtained from another position			
INSULATION MEDIUM							
Air		Gas Insulated Switchgear		Oil		SF6 Gas	

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		Power Reactor In- and Out- Commissioning Sheet			
COOLING					
Air Natural		Oil Forced Air Forced		Oil Natural Air Forced	
Oil Natural Air Natural		Oil Directed Air Forced		Oil Directed Air Natural	
OPEN OR SEALED UNIT					
Open Unit			Sealed Unit		
SINGLE PHASE OR THREE PHASE					
Single Phase			Three Phase		
AIR CELL INSTALLED					
Yes			No		
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					


Photo of Nameplate attached	YES	
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Annexure AA : POWER TRANSFORMER COMMISSIONING SHEET

		Power Transformer In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number	R ₀		W ₀		B ₀		
kV Ratio	HV		LV		Ter/Aux		
Full Load Amps	HV		LV		Ter/Aux		
Apparent Power				kA Rating			
Neutral Earth	Yes		No		Oil Quantity(Main Unit)		
Equipment will be	Scrapped		Repaired		Moved to new position	Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number	R ₀		W ₀		B ₀		
kV Ratio	HV		LV		Ter/Aux		
Full Load Amps	HV		LV		Ter/Aux		
Apparent Power				kA Rating			
Neutral Earth	Yes		No		Oil Quantity(Main Unit)		
Equipment is	New			Obtained from another position			
COOLING							
Air Natural			Oil Forced Air Forced			Oil Forced Water Forced	
Oil Natural Air Forced			Oil Natural Air Natural			Oil Directed Air Forced	

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				Power Transformer In- and Out- Commissioning Sheet								
OPEN OR SEALED UNIT												
Open Unit								Sealed Unit				
SINGLE PHASE OR THREE PHASE												
Single Phase								Three Phase				
VECTOR (PRIMARY/SECONDARY)												
11YY0		31DY1		32YD1		32YD9		33YZ1		33YZ11		
41DY11		41DY3		42YD11		AAND1		DY1		DY11		
DY3		DY9		DYN1		DYN11		Interstar		YD1		
YD11		YD7		YN		YN0		YNA		YNA0		
YNA0D1		YND1		YND11		YND7		YNY0		YNYN0		
YNZ1		YNZ11		YNZ7		YY0		YY0YD1		YYN0		
YYN0D1		YYN0YND1		YZ1		YZ11		YZ7		YZN11		
ZNY11		ZNYN11		ZY11		ZYN						
AIR CELL INSTALLED												
Yes								No				
Notes:												
	Name				Signature				Date			
Data provided by												
Erected by												
Handed Over by/to												

Photo of Nameplate attached	YES	
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Annexure BB : PROTECTION SCHEME COMMISSIONING SHEET


		Protection Scheme In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
kV Rating					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
kV Rating				Nominal Current	
Equipment is		New		Obtained from another position	
Notes:					
		Name		Signature	
		Date			
Data provided by					
Erected by					
Handed Over by/to					


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Annexure CC : PROTECTION RELAY COMMISSIONING SHEET

		Protection Relay In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number							
Rated Current				Nominal Current			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number				Main 1 / Main 2 or Backup			
Relay Function 1				Nominal Current			
Relay Function 2				Rated Current			
Relay Function 3				Rated DC Voltage			
ARC Relay		Bkr Fail Relay		Closing IED		Diff Relay	
E/F Relay		Imp Relay		O/C Relay		O/V Relay	
REF Relay		Unbalance Relay		Point on Wave Relay			
Equipment is		New		Obtained from another position			
Notes:							

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		Protection Relay In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			

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Annexure DD : RECORDER COMMISSIONING SHEET


		Recorder In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer			Manufacturing Date		
Model Number					
Serial Number					
Equipment will be	Scrapped		Repaired		Moved to new position
					Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer			Manufacturing Date		
Model Number					
Serial Number					
Input Voltage					
Equipment is	New		Obtained from another position		
RECORDER TYPE					
Disturbance Recording Device				Quality of Supply	
Sequence of Events				Distance to Fault Locators (TWS)	
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					

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Annexure FF : SCADA CONTROL EQUIPMENT COMMISSIONING SHEET


		SCADA Control Equipment In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
CONTROL EQUIPMENT TYPE					
Bay Processor		ERTU		RTU	
GPS		HMI		Station Alarm Annunciator	
D400		D25		D20	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer		Manufacturing Date			
Model Number					
Serial Number					
Equipment will be		Scrapped	Repaired	Moved to new position	Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer		Manufacturing Date			
Model Number					
Serial Number					
Equipment is		New	Obtained from another position		
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
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Annexure GG : SECURITY SYSTEMS COMMISSIONING SHEET


		Security Systems In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
SECURITY SYSTEM EQUIPMENT TYPE					
Access Gate		Access Gate Control System		Non Lethal Electric Fence	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer			Manufacturing Date		
Model Number					
Serial Number					
Equipment will be	Scrapped		Repaired		Moved to new position
					Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer			Manufacturing Date		
Model Number					
Serial Number					
Equipment is	New		Obtained from another position		
Notes:					
	Name		Signature		Date
Data provided by					
Erected by					
Handed Over by/to					


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Annexure HH : SURGE ARRESTOR COMMISSIONING SHEET

		Surge Arrestor In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		R _ø		W _ø	B _ø
kV Rating				Short Circuit Current	
kA Rating				Nominal AC Voltage	
Creepage Level		mm/kV		Deflection Spec. Nm	
Equipment will be		Scrapped		Repaired	Moved to new position
					Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		R _ø		W _ø	B _ø
kV Rating				Short Circuit Current	
kA Rating				Nominal AC Voltage	
Creepage Level		mm/kV		Deflection Spec. Nm	
Equipment is		New		Obtained from another position	
INTERNAL DESIGN					
Metal Oxide Varistor				Silicon Carbide	
Notes:					

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		Surge Arrestor In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			


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Annexure II : TAP CHANGER COMMISSIONING SHEET

		Tap Changer In- and Out- Commissioning Sheet																	
Grid																			
CLN																			
Substation																			
Feeder Bay																			
Equipment																			
Cost Centre						Project No													
EXISTING EQUIPMENT DATA DECOMMISSIONING																			
Reason for Decommissioning																			
Decommissioning Date																			
Manufacturer						Manufacturing Date													
Model Number																			
Serial Number		R ₀				W ₀				B ₀									
kV Rating						Nominal tap position													
kA Rating						Nominal AC Voltage													
On Load Tap Changer		Yes				No				Off Load Tap Changer		Yes				No			
Number of Taps						Oil Quantity													
Equipment will be		Scrapped				Repaired				Moved to new position				Stores					
NEW EQUIPMENT DATA COMMISSIONING																			
Reason for Commissioning																			
Commissioning Date																			
Manufacturer						Manufacturing Date													
Model Number																			
Serial Number		R ₀				W ₀				B ₀									
kV Rating						Nominal tap position													
kA Rating						Nominal AC Voltage													
On Load Tap Changer		Yes				No				Off Load Tap Changer		Yes				No			
Number of Taps						Oil Quantity													
Equipment is		New						Obtained from another position											

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		Tap Changer In- and Out- Commissioning Sheet	
OPERATING MEDIUM			
Oil		Vacuum	
Notes:			
	Name	Signature	Date
Data provided by			
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Annexure JJ : TELEPROTECTION COMMISSIONING SHEET

		Teleprotection In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment will be		Scrapped		Repaired	
				Moved to new position	
				Stores	
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number					
Equipment is		New		Obtained from another position	
POWER LINE CARRIER					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number				Output Power	
Main 1				Main 2	
BEARER TPE					
Manufacturer				Manufacturing Date	
Model Number				Supply Voltage	
Serial Number				Interface Type	
Main 1				Main 2	
Notes:					

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		Teleprotection In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			

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Annexure KK : VARISTOR BANK COMMISSIONING SHEET


		Varistor Bank In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				Nominal AC Voltage			
				Number of Varistors			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		R _ø		W _ø		B _ø	
kV Rating				Nominal AC Voltage			
				Number of Varistors			
Equipment is		New		Obtained from another position			
Notes:							
	Name			Signature		Date	
Data provided by							
Erected by							
Handed Over by/to							


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Annexure LL : VT COMMISSIONING SHEET

		Voltage Transformer In- and Out- Commissioning Sheet					
Grid							
CLN							
Substation							
Feeder Bay							
Equipment							
Cost Centre				Project No			
EXISTING EQUIPMENT DATA DECOMMISSIONING							
Reason for Decommissioning							
Decommissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		Rø		Wø		Bø	
kV Rating				Nominal AC Voltage			
kA Rating				Secondary Voltage			
Equipment will be		Scrapped		Repaired		Moved to new position	
						Stores	
NEW EQUIPMENT DATA COMMISSIONING							
Reason for Commissioning							
Commissioning Date							
Manufacturer				Manufacturing Date			
Model Number							
Serial Number		Rø		Wø		Bø	
kV Rating				Nominal AC Voltage			
kA Rating				Secondary Voltage			
Equipment is		New		Obtained from another position			
INSULATION MEDIUM							
Air				Gas Insulated Switchgear			
				Oil			
				SF6 Gas			
Notes:							

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		Voltage Transformer In- and Out- Commissioning Sheet	
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			

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Annexure MM: OVERHEAD LINE CHANGE COMMISSIONING SHEET



		Overhead Line Change Commissioning Sheet	
Grid			
CLN responsible for the Line			
Previously part of Line			
Name of Line			
Substation Feeder Bay at the end of the line			
Substation Feeder Bay at the other end of the line			
Commissioning Date			
Reason for Commissioning/ Change			
LINE INFORMATION			
Line Length		Ground wire type	
Line Voltage		Number of Towers	
Conductor Type		Number of Spans	
Number of Conductors per phase			
Refer to spreadsheet for detailed information on Page 65			
	Name	Signature	Date
Data provided by			
Erected by			
Handed Over by/to			
Lines & Servitude			

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		Overhead Line Change Commissioning Sheet						
Tower Number E.g. 2KO/KRU 1	Previous Tower Number	Tower Type	Span from Twr to Twr	Span Length (meter)	Insulator Type	Bird Guard	Conductor Type	Body Extension

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Annexure NN : LINE SA COMMISSIONING SHEET



		HV Line Surge Arrestor In- and Out- Commissioning Sheet			
Grid					
CLN					
Substation					
Feeder Bay					
Equipment					
Cost Centre				Project No	
EXISTING EQUIPMENT DATA DECOMMISSIONING					
Reason for Decommissioning					
Decommissioning Date					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		R _Ø		W _Ø	B _Ø
kV Rating				kA Rating	
Creepage Level		mm/kV		Deflection Spec. Nm	
Tower No					
Manufacturer				Manufacturing Date	
Model Number					
Serial Number		R _Ø		W _Ø	B _Ø
kV Rating				kA Rating	
Creepage Level		mm/kV		Deflection Spec. Nm	
Equipment will be		Scrapped		Repaired	Moved to new position
					Stores
NEW EQUIPMENT DATA COMMISSIONING					
Reason for Commissioning					
Commissioning Date					
Equipment is		New		Obtained from another position	
		Name		Signature	
				Date	
Data provided by					
Erected by					
Handed Over by/to					

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		HV Line Surge Arrestor In- and Out- Commissioning Sheet								
Tower No	Arrestor Manufacturer	Type/ Model No	Serial No R phase	Serial No W phase	Serial No B phase	kV Rating	kA Rating	Creepage Level mm/KV	Deflection Spec (nM)	Manufacturing Date

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