

འབྲུག་རྒྱུ་ཁྲུག་ལྷན་ཁུངས་ལྷན་ཁུངས་ལྷན་ཁུངས་ལྷན་ཁུངས་ལྷན་ཁུངས་

Office of the Bhutan Power System Operator

རྒྱལ་ཁྲུག་དང་རང་བཞིན་ཐོན་སྐྱེད་ལྷན་ཁུངས་

Ministry of Energy and Natural Resources



Annual Maintenance Plan 2024

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Message from the Head

Bhutan is endowed with rich hydropower resources and it is estimated that hydropower potential is around 36,900 MW out of which, around 23,760 MW is estimated to be techno-commercially feasible. From this feasible quantum, just around 9.8% had been harnessed until now. Given the utmost importance of energy diversification, the Royal Government of Bhutan, of late, had started to place special focus on promotion, development and harnessing of non-hydro renewal energy (from Solar and Wind). Bhutan has a potential to produce around 12,000 MW of Solar Energy and 760 MW of Wind Energy.

To enhance energy security, special focus is also placed on development of small hydropower projects. Currently, 104 MW (Suchhu, Burgangchhu, and Yungichhu) projects are under construction. For the next phase, Druk Bindu-I & II and Jomori are in the list. In view of these developments and gradual growth in domestic consumption and increasing cross-border trade, transmission system infrastructure development are also in the process of being looked at by the concerned.

As part of the enhancement of operational efficiency, the following are defined and are in place.

OPERATIONALIZATION OF GRID CODE REGULATION, 2008

6.2.1 Planned Maintenance

...the activities which are proposed in advance by the individual agency in the Annual Maintenance Plan (AMP), and approved in principle by the System Operator in line with the Grid Code Clause No. 6.11.

The final shutdown request for the planned maintenance of equipment shall be submitted to system operator two weeks before the actual shutdown.

6.2.2 Emergency Maintenance (break down)

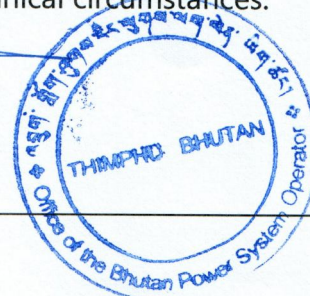
The emergency maintenance are required to be taken by the agency/field operators immediately as a result of the failure/breakdown of equipment or components which otherwise will have catastrophic effect.

6.2.3 Ad hoc maintenance (preventive)

...The ad-hoc maintenance are the ones which are requested by the agencies to the System Operator (not envisaged during the AMP meeting) as felt necessary based on the condition of the equipment so that preventive maintenance of the system can be done. The final shutdown request for the ad-hoc maintenance of equipment shall be submitted to system operator three days before the actual shutdown.

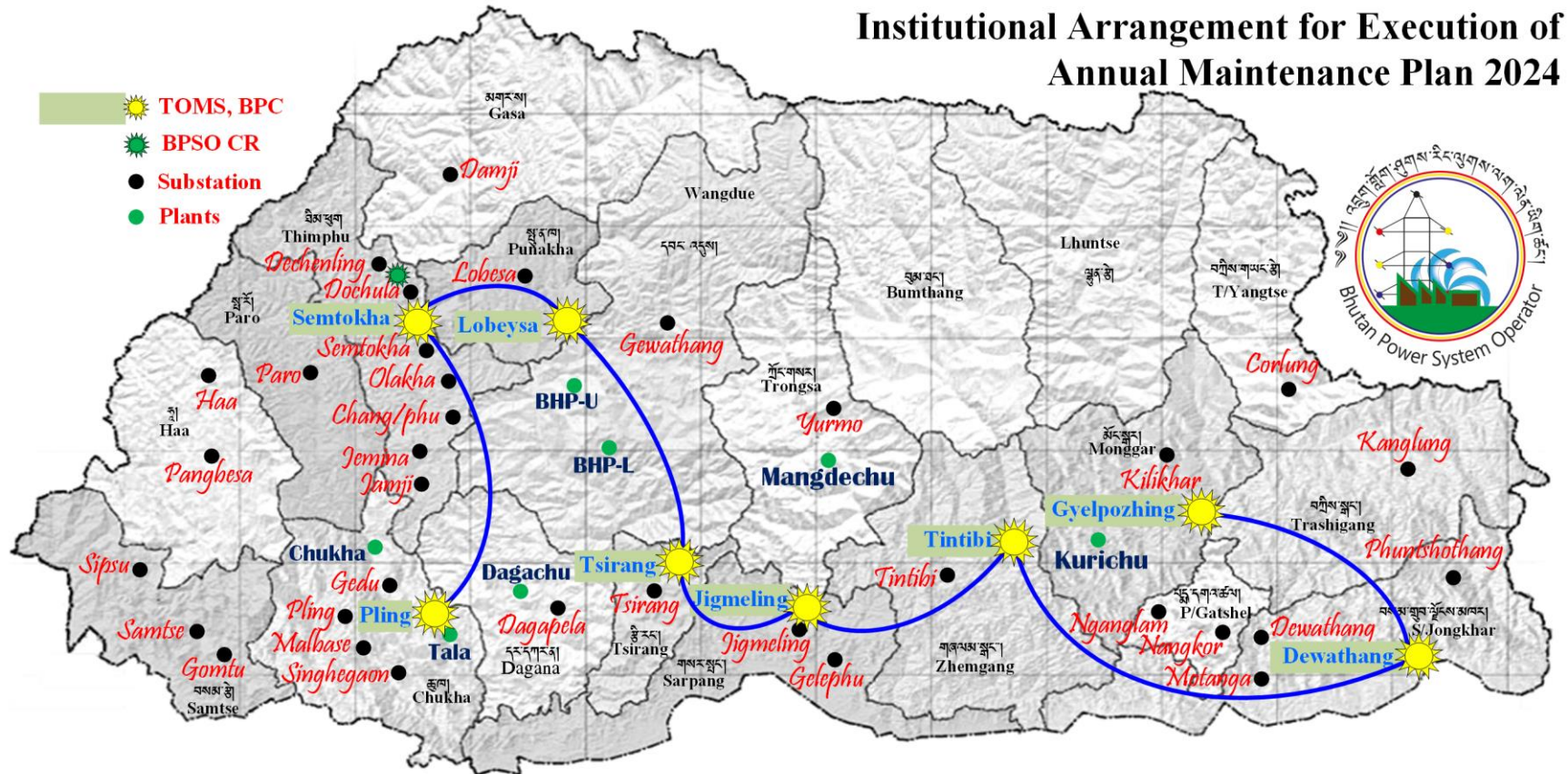
These developments call for efficient management of grid to ensure operational efficiencies and reliability of power transmitted. It is expected that no stones are left unturned by all the stakeholders concerned, in close coordination with BPSO, to achieve this. It may also kindly be noted that the shutdown(s) would be revoked/postponed/preponed depending on the technical circumstances.

Sherub
(Head)



1. Institutional Arrangement for Execution of Annual Maintenance Plan

The key stakeholders involved for execution of AMP-2024 are the respective Control Rooms of Plants, Substation and BPSO. Adopting the prevailing best practices including the use of available communication channel(s), all the stakeholders shall place utmost importance on the safety of the equipment and personnel while executing the shutdown.



BPSO contact details: 00975-1712-9094; 00975-7711-9094; VOID: 1005; controlroom@bpso.bt; bhutansystemoperator@gmail.com. www.bpso.bt



2. Druk Green Power Corporation

The plant-wise AMP-2024 for units are as given below. The shutdown of lines, if required, shall be taken as an advantage shutdown when the concerned TOMS (Transmission Operation and Maintenance Section) of BPC takes. This is to ensure there is, as far as possible, no repetition of shutdowns on the same element.

Note:

It is requested that the final shutdown approval is sought from this office before taking the actual shutdown for the maintenance. This office may revoke/postpone/prepone the shutdown depending on the technical requirement of the national grid. The concerned may announce in the media if the shutdown(s) of the line(s)/ICT(s)/Unit(s) is/are envisaged to have supply interruptions.

2.1 The 2x12+2x20 MW BHP, Wangdue

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Reliability	Remarks
1	Unit-II (US) & Unit-II (LS)	03/01/2024 09:00hrs	07/02/2024 17:00hrs	Unit-I in both the stages will be available	-
2	Unit-I (US) & Unit-I (LS)	08/02/2024 09:00hrs	18/03/2024 17:00hrs	Unit-II in both the stages will be available	
3	220kV ICT Bay	01/04/2024 09:00hrs	06/04/2024 17:00hrs	All units will be in service	Returnable
4	Total shutdown of LS and 220kV SY	09/05/2023 09:00hrs	09/05/2023 17:00hrs	Upper stage units will be in service	-

5	All units of US and 66kV SY	10/05/2023 09:00hrs	05/05/2023 17:00hrs	Lower stage units will be in service	-
6	Unit-I (US) & Unit-I (LS)	15/08/2023 09:00hrs	15/08/2023 17:00hrs	Unit-II in both the stages will be available	-
7	Unit-II (US) & Unit-II (LS)	16/08/2023 09:00hrs	16/08/2023 17:00hrs	Unit-I in both the stages will be available	-
8	Lines	Work program on line(s), if any, for BHP shall be clubbed with those of other stakeholder(s)			

2.2 The 4x84 MW CHP, Chukha

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Reliability	Remarks
1	Unit-III	11/12/2023 09:00hrs	25/04/2024 17:00hrs	Other unit(s) will be available.	-
2	Unit-I	29/01/2024 09:00hrs	01/04/2024 17:00hrs	Other unit(s) will be available.	
3	Unit-II	04/01/2024 09:00hrs	31/05/2024 17:00hrs	Other unit(s) will be available.	
4	Unit-I and II	29/01/2024 09:00hrs	01/04/2024 17:00hrs	Other unit(s) will be available.	
5	Unit-III and IV	29/01/2024	01/04/2024	Other unit(s) will be available.	-

		09:00hrs	17:00hrs		
6	All units	(February for 18 hours)		No units will be available	Dam Scouring
7	Unit-IV	22/02/2024 09:00hrs	22/02/2024 17:00hrs	10 hours	-
8	Unit-III	29/03/2024 09:00hrs	29/03/2024 17:00hrs	10 hours	-
9	Unit-I	01/06/2024 09:00hrs	01/06/2024 17:00hrs	10 hours	-
10	Unit-II	03/06/2024 09:00hrs	03/06/2024 17:00hrs	10 hours	-
11	Unit-III	04/06/2024 09:00hrs	04/06/2024 17:00hrs	10 hours	-
12	Unit-III	05/06/2024 09:00hrs	05/06/2024 17:00hrs	10 hours	-
13	Unit-I	01/08/2024 09:00hrs	01/08/2024 17:00hrs	10 hours	-
14	Unit-II	02/08/2024 09:00hrs	02/08/2024 17:00hrs	10 hours	-
15	Unit-III	03/08/2024 09:00hrs	03/08/2024 17:00hrs	10 hours	-

16	Unit-III	04/08/2024 09:00hrs	05/08/2024 17:00hrs	10 hours	-
17	Unit-I	01/10/2024 09:00hrs	01/08/2024 17:00hrs	10 hours	-
18	Unit-II	02/08/2024 09:00hrs	02/10/2024 17:00hrs	10 hours	-
19	Unit-III	03/10/2024 09:00hrs	03/10/2024 17:00hrs	10 hours	-
20	Unit-III	04/10/2024 09:00hrs	04/10/2024 17:00hrs	10 hours	-
21	Any unit	01/11/2024 09:00hrs	26/11/2024 17:00hrs	10 hours	-
22	Any unit	27/11/2024 09:00hrs	30/12/2024 17:00hrs	10 hours	-
23	Any two units	(December)		Combined shutdown	The shutdown will be contingent on availability of other units for reliability
24	Lines	Work program on line(s), if any, for CHP shall be clubbed with those of other stakeholder(s).			

2.3 The 2x63 MW DHP, Dagana

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Reliability	Remarks
1	Unit-II	05/01/2024 09:00hrs	05/02/2024 17:00hrs	Other unit will be available.	-
2	All units	13/08/2024 07:00hrs	13/08/2024 17:00hrs	Total shutdown	Dam Scouring and line maintenance also.
3	Lines	Work program on line(s), if any, for DHP shall be clubbed with those of other stakeholder(s) or can be taken during the common shutdown			

Note: The concerned TOMS shall, if required, plan the shutdown on the 220kV DHP-Tsirang/Dagapela during the above common shutdown in close coordination with DHP.

2.4 The 4x15 MW KHP, Monggar

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Reliability	Remarks
1	Unit-IV	15/11/2023 09:00hrs	28/02/2024 17:00hrs	Other unit(s) will be available.	-
2	Unit-I	04/12/2023 09:00hrs	08/01/2024 17:00hrs	Other unit(s) will be available.	-

3	Unit-III	10/01/2024 09:00hrs	19/02/2024 17:00hrs	Other unit(s) will be available.	-
4	Unit-IV	24/02/2024 09:00hrs	01/04/2024 17:00hrs	Other unit(s) will be available.	-
5	Unit-I	01/05/2024 09:00hrs	01/05/2024 17:00hrs	2 hours	-
6	Unit-II	03/05/2024 09:00hrs	03/05/2024 17:00hrs	2 hours	-
7	Unit-III	04/05/2024 09:00hrs	04/05/2024 17:00hrs	2 hours	-
8	Unit-IV	05/05/2024 09:00hrs	05/05/2024 17:00hrs	2 hours	-
9	Unit-I	03/06/2024 09:00hrs	03/06/2024 17:00hrs	18 hours	-
10	Unit-II	04/06/2024 09:00hrs	04/06/2024 17:00hrs	18 hours	-
11	Unit-III	05/06/2024 09:00hrs	05/06/2024 17:00hrs	18 hours	-

12	Unit-IV	06/06/2024 09:00hrs	06/06/2024 17:00hrs	18 hours	-
13	Unit-I & II	01/07/2024 09:00hrs	01/07/2024 17:00hrs	2 hours	-
14	Unit-III & IV	02/07/2024 09:00hrs	02/07/2024 17:00hrs	2 hours	-
15	All unit(s)	15/08/2024 09:00hrs	15/08/2024 17:00hrs	12 hours	Dam Scouring
16	All unit(s)	15/09/2024 09:00hrs	15/09/2024 17:00hrs	12 hours	Dam Scouring
17	Unit-I	01/10/2024 09:00hrs	01/10/2024 17:00hrs	2 hours	-
18	Unit-II	02/10/2024 09:00hrs	02/10/2024 17:00hrs	2 hours	-
19	Unit-III	03/10/2024 09:00hrs	03/10/2024 17:00hrs	2 hours	-
20	Unit-IV	04/10/2024 09:00hrs	04/10/2024 17:00hrs	2 hours	-
21	Lines	Work program on line(s), if any, for KHP shall be clubbed with those of other stakeholder(s)			

2.5 The 4x180 MW MHP, Trongsa

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Reliability	Remarks
1	Unit-III	17/12/2023 09:00hrs	20/01/2024 17:00hrs	Other unit(s) will be available.	-
2	Unit-II	21/01/2024 09:00hrs	12/03/2024 17:00hrs	Other unit(s) will be available.	-
3	Unit-I & II	03/03/2024 09:00hrs	12/03/2024 17:00hrs	Other unit(s) will be available.	-
4	Unit-I	13/03/2024 09:00hrs	11/05/2024 17:00hrs	Other unit(s) will be available.	-
5	Unit-I	19/09/2024 09:00hrs	19/09/2024 17:00hrs	10 hours	-
		10/10/2024 09:00hrs	10/10/2024 17:00hrs		
		31/10/2024 09:00hrs	31/10/2024 17:00hrs		
6	Unit-III	03/11/2024 09:00hrs	03/11/2024 17:00hrs	10 hours	-

7	Unit-I & Unit-II	21/11/2024 09:00hrs	21/11/2024 17:00hrs	10 hours	-
8	Unit-I	02/01/2024 09:00hrs	02/01/2024 17:00hrs	10 hours each	-
		22/01/2024 09:00hrs	22/01/2024 17:00hrs		
		12/02/2024 09:00hrs	12/02/2024 17:00hrs		
9	Unit-I & -III	02/06/2024 09:00hrs	02/06/2024 17:00hrs	10 hours	-
10	Unit-IV	07/01/2024 09:00hrs	07/01/2024 17:00hrs	10 hours each	-
		18/02/2024 09:00hrs	18/02/2024 17:00hrs		
		13/07/2024 09:00hrs	13/07/2024 17:00hrs		
		20/04/2024 09:00hrs	20/04/2024 17:00hrs		
11	Unit-III	10/03/2024 09:00hrs	10/03/2024 17:00hrs	10 hours	-

12	Unit-II	04/04/2024 09:00hrs	04/04/2024 17:00hrs	10 hours each	-
		27/06/2024 09:00hrs	27/06/2024 17:00hrs		
13	All Units	10/08/2024 09:00hrs	10/08/2024 17:00hrs	14 hours	Dam scouring
14	Unit-III	24/08/2024 09:00hrs	24/08/2024 17:00hrs	10 hours each	-
		15/11/2024 09:00hrs	15/11/2024 17:00hrs		
15	Unit-I	14/09/2024 09:00hrs	14/09/2024 17:00hrs	10 hours each	-
		07/12/2024 09:00hrs	07/12/2024 17:00hrs		
16	Unit-II	18/09/2024 09:00hrs	18/09/2024 17:00hrs	10 hours each	-
		10/12/2024 09:00hrs	10/12/2024 17:00hrs		
17	Unit-IV	04/10/2024 09:00hrs	04/10/2024 17:00hrs	10 hours each	-

18	Unit-IV	26/12/2024 09:00hrs	26/12/2024 17:00hrs	10 hours	-
19	Lines	Work program on line(s), if any, for MHP shall be clubbed with those of other stakeholder(s)			

2.6 The 6x170 MW THP, Chukha

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Reliability	Remarks
1	Unit-I	01/01/2024 09:00hrs	07/01/2024 17:00hrs	Other unit(s) will be available.	-
2	Unit-I & -III	10/01/2024 09:00hrs	29/02/2024 17:00hrs	Other unit(s) will be available.	-
3	Unit-III & -IV	01/03/2024 09:00hrs	30/03/2024 17:00hrs	Other unit(s) will be available.	-
4	Unit-IV	01/04/2024 09:00hrs	17/04/2024 17:00hrs	Other unit(s) will be available.	-
5	Unit-II	17/05/2024 09:00hrs	30/05/2024 17:00hrs	Other unit(s) will be available.	-
6	Unit-IV	31/05/2024 09:00hrs	31/05/2024 17:00hrs	8 hours each	-

7	Unit-IV	12/09/2024 09:00hrs	12/09/2024 17:00hrs	8 hours each	-
8	Unit-VI	01/06/2024 09:00hrs	01/06/2024 17:00hrs	8 hours	-
9	Unit-I	15/08/2024 09:00hrs	15/08/2024 17:00hrs	8 hours	-
10	Unit-II	16/08/2024 09:00hrs	16/08/2024 17:00hrs	8 hours	-
11	Unit-III	19/08/2024 09:00hrs	19/08/2024 17:00hrs	8 hours	-
12	Unit-V	20/08/2024 09:00hrs	20/08/2024 17:00hrs	8 hours	-
13	All Units	06/08/2024 09:00hrs	06/08/2024 17:00hrs	24 hours	Dam scouring
14	Unit-VI	16/10/2024 09:00hrs	22/10/2024 17:00hrs	Annual Maintenance	-
15	Unit-V & -VI	23/10/2024 09:00hrs	30/11/2024 17:00hrs	Annual Maintenance	-

16	Unit-IV, -V & -VI	01/12/2024 09:00hrs	30/12/2024 17:00hrs	Annual Maintenance	-
17	Lines	Work program on line(s), if any, for THP shall be clubbed with those of other stakeholder(s)			

3. Bhutan Power Corporation Limited

The TOMS-wise AMP-2024 for transmission elements (66kV and above) are given below. One TOMS may coordinate with other concerned TOMS and Plant while availing the shutdown from BPSO Control Room to avoid, as far as possible, repetition of shutdowns on the same element.

Note:

It is requested that the final shutdown approval is sought from this office before taking the actual shutdown. This office may revoke/postpone/prepone the shutdown depending on the technical requirement of the national grid. The concerned may announce in the media if the shutdown(s) of the line(s)/ICT(s)/Unit(s) is/are envisaged to have supply interruptions.

3.1 TOMS Gyelpozhing, Monggar

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	132kV KHP-Kilikhar	04/01/2024 09:00hrs	07/01/2024 17:00hrs	-	-
		11/01/2024 09:00hrs	19/01/2024 17:00hrs		
2	132kV Kilikhar-Corlung	12/02/2024 09:00hrs	19/02/2024 17:00hrs	-	-
		04/03/2024 09:00hrs	13/03/2024 17:00hrs		

3	132kV Corlung-Kanglung	18/03/2024 09:00hrs	22/03/2024 17:00hrs	-	-
4	132kV Kanglung-P/thang	02/04/2024 09:00hrs	15/04/2024 17:00hrs	-	-
5	132kV KHP-Nangkor	16/04/2024 09:00hrs	27/04/2024 17:00hrs	-	-

3.2 TOMS Dewathang, S/Jongkhar

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	132kV Nangkor-Nganglam	20/01/2024 09:00hrs	05/02/2024 17:00hrs	-	Nangkor end
		20/01/2024 09:00hrs	30/01/2024 17:00hrs		Nganglam end
2	132kV Nangkor-Deothang	25/02/2024 09:00hrs	28/02/2024 17:00hrs	-	Nangkor end
		01/03/2024 09:00hrs	03/03/2024 17:00hrs	-	Deothang end
3	132kV Nganglam-Tintibi	06/02/2024 09:00hrs	11/02/2024 17:00hrs	-	Nganglam end

4	132kV Deothang-Motanga	23/03/2024 09:00hrs	29/03/2024 17:00hrs	-	Deothang end
5	132kV KHP-Nangkor	16/04/2024 09:00hrs	27/04/2024 17:00hrs	-	Nangkor end
6	132kV Nganglam-Motanga	11/01/2024 09:00hrs	14/01/2024 17:00hrs	-	Nganglam end
7	132kV Nganglam-Motanga	15/01/2024 09:00hrs	17/01/2024 17:00hrs	-	Motanga end
8	132kV P/thang-Motanga	16/04/2024 09:00hrs	21/04/2024 17:00hrs	-	P/thang end
		22/04/2024 09:00hrs	26/04/2024 17:00hrs	-	Motanga end
9	132kV P/thang-Kanglung	02/04/2024 09:00hrs	15/04/2024 17:00hrs	-	P/thang end
10	132kV Main Bus (Deothang)	18/04/2024 09:00hrs	20/04/2024 17:00hrs	-	Load affected
11	132kV Main Bus (Nangkor)	22/04/2024 09:00hrs	24/04/2024 17:00hrs	-	Load affected

12	132kV Main Bus (Nganglam)	26/04/2024 09:00hrs	30/04/2024 17:00hrs	-	Load affected
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3.3 TOMS Tintibi, Zhemgang

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	132kV Tintibi-Nganglam	07/02/2024 09:00hrs	09/02/2024 17:00hrs	-	-
2	400kV MHP-Jigmeling I	01/04/2024 09:00hrs	15/04/2024 17:00hrs	-	-
3	132kV Tintibi-Jigmeling	04/03/2024 09:00hrs	07/03/2024 17:00hrs	-	-
4	132kV Tintibi-Nganglam	10/02/2024 09:00hrs	11/02/2024 17:00hrs	-	-
5	132kV Tintibi-Yurmo	10/02/2024 09:00hrs	11/02/2024 17:00hrs	-	132kV MHP-Yurmo is available to meet DHI and central region
6	132/33kV, 3 MVA Trans-I	21/03/2024 09:00hrs	25/03/2024 17:00hrs	-	-

7	132/33kV, 3 MVA Trans-II	26/03/2024 09:00hrs	31/03/2024 17:00hrs	-	-
8	132kV Tintibi-Nganglam	05/05/2024 09:00hrs	06/05/2024 17:00hrs	-	-
9	132kV Tintibi-Jigmeling	07/05/2024 09:00hrs	08/05/2024 17:00hrs	-	-
10	132kV Tintibi-Yurmo	09/05/2024 09:00hrs	10/05/2024 17:00hrs	-	-
11	132/33kV, 3 MVA Trans-I	11/05/2024 09:00hrs	12/05/2024 17:00hrs	-	-
12	132/33kV, 3 MVA Trans-II	13/05/2024 09:00hrs	14/05/2024 17:00hrs	-	-
13	132kV Tintibi-Nganglam	02/09/2024 09:00hrs	02/09/2024 17:00hrs	-	-
14	132kV Tintibi-Jigmeling	03/09/2024 09:00hrs	03/09/2024 17:00hrs	-	-
15	132kV Tintibi-Yurmo	04/09/2024 09:00hrs	04/09/2024 17:00hrs	-	-
16	132/33kV, 3 MVA Trans-I	05/09/2024 09:00hrs	05/09/2024 17:00hrs	-	-

17	132/33kV, 3 MVA Trans-II	06/09/2024 09:00hrs	06/09/2024 17:00hrs	-	-
18	132kV MHP-Yurmo II	15/03/2024 09:00hrs	16/03/2024 17:00hrs	-	-
19	132kV Tintibi-Yurmo	10/02/2024 09:00hrs	11/02/2024 17:00hrs	-	-
		15/05/2024 09:00hrs	15/05/2024 17:00hrs	-	-
20	132kV MHP-Yurmo II	16/05/2024 09:00hrs	16/05/2024 17:00hrs	-	-
21	132/33kV, 3 MVA Trans-I	17/05/2024 09:00hrs	07/05/2024 17:00hrs	-	-
22	132/33kV, 3 MVA Trans-II	18/05/2024 09:00hrs	18/05/2024 17:00hrs	-	-
23	132kV MHP-Yurmo II	18/09/2024 09:00hrs	18/09/2024 17:00hrs	-	-
24	132/33kV, 3 MVA Trans-I	20/09/2024 09:00hrs	21/09/2024 17:00hrs	-	-
25	132/33kV, 3 MVA Trans-II	23/09/2024 09:00hrs	24/09/2024 17:00hrs	-	-

26	132kV Main & Transfer bus	01/05/2024 09:00hrs	03/05/2024 17:00hrs	-	Load affected
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3.4 TOMS Jigmeling, Sarpang

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	400kV Jigme-Alipur (interim) I and II	05/02/2024 09:00hrs	09/02/2024 17:00hrs	-	-
2	400kV MHP-Jigmeling I & II	10/02/2024 09:00hrs	14/02/2024 17:00hrs	-	-
3	132kV Tintibi-Jigmeling	04/03/2024 09:00hrs	07/03/2024 17:00hrs	-	-
4	132kV Jigmeling-Gelephu	09/03/2024 09:00hrs	11/03/2024 17:00hrs	-	-
5	132kV Bus Coupler	12/03/2024 09:00hrs	14/03/2024 17:00hrs	-	-
6	132/33kV, 15 MVA Transformer	15/03/2024 09:00hrs	17/03/2024 17:00hrs	-	-

7	220kV Jigmeling-Tsirang	18/03/2024 09:00hrs	21/03/2024 17:00hrs	-	Subject to the availability of 220kV CHP-Jamjee D/C line and 220kV Jamjee-Semtokha
8	220kV Jigmeling-Tsirang	22/03/2024 09:00hrs	24/03/2024 17:00hrs	-	Subject to the fulfilment of conditions laid out by OCC
9	220kV Bus Coupler	25/03/2024 09:00hrs	27/03/2024 17:00hrs	-	-
10	220/132kV, 80 MVA ICT-I	28/03/2024 09:00hrs	30/03/2024 17:00hrs	-	-
11	220/132kV, 80 MVA ICT-II	01/04/2024 09:00hrs	03/04/2024 17:00hrs	-	-
12	400/220kV, 500 MVA ICT (R)	04/04/2024 09:00hrs	08/04/2024 17:00hrs	-	-
13	400/220kV, 500 MVA ICT (Y)	09/04/2024 09:00hrs	12/04/2024 17:00hrs	-	-
14	400/220kV, 500 MVA ICT (B)	13/04/2024 09:00hrs	16/04/2024 17:00hrs	-	-

15	400/220kV, 500 MVA ICT (Spare)	17/04/2024 09:00hrs	20/04/2024 17:00hrs	-	-
16	400kV MHP-Jigmeling-III	06/05/2024 09:00hrs	10/05/2024 17:00hrs	-	-
17	400kV MHP-Jigmeling-IV				
18	400kV Jigmeling-Alipurduar-I	13/05/2024 09:00hrs	17/05/2024 17:00hrs	-	-
19	400kV Jigmeling-Alipurduar-II				
20	132kV Jigmeling-Gelephu	21/04/2024 09:00hrs	24/04/2024 17:00hrs	-	-
21	132kV Gelephu-Salakati	25/04/2024 09:00hrs	28/04/2024 17:00hrs		
22	132/33kV, 25 MVA ICT Transformer -I	15/01/2024 09:00hrs	17/01/2024 17:00hrs	-	-
23	132/33kV, 25 MVA ICT Transformer -I	22/01/2024 09:00hrs	24/01/2024 17:00hrs	-	-

3.5 TOMS-Tsirang, Tsirang

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	220kV DHP-Dagapela	02/04/2024 09:00hrs	15/02/2024 17:00hrs	-	-
2	220kV Jigmeling-Dagapela	25/03/2024 09:00hrs	26/03/2024 17:00hrs	-	Subject to the fulfilment of the conditions laid out by OCC
3	220/33kV, 40 MVA Transformer-I	14/10/2024 09:00hrs	17/10/2024 17:00hrs	-	-
4	220/33kV, 40 MVA Transformer-II	18/10/2024 09:00hrs	21/10/2024 17:00hrs	-	-
5	220kV Bus Coupler	22/10/2024 09:00hrs	24/10/2024 17:00hrs	-	-
6	220kV DHP-Dagapela	25/10/2024 09:00hrs	26/10/2024 17:00hrs	-	-
7	220kV Jigmeling-Dagapela	27/10/2024 09:00hrs	28/10/2024 17:00hrs	-	Subject to the fulfilment of the conditions laid out by OCC

8	220/33kV, 10MVA Transformer-I	04/11/2024 09:00hrs	07/11/2024 17:00hrs	-	-
9	220/33kV, 10MVA Transformer-II	08/11/2024 09:00hrs	10/11/2024 17:00hrs	-	-
10	220kV Bus Coupler	12/11/2024 09:00hrs	14/11/2024 17:00hrs	-	-
11	220kV Tsirang-Dagachhu	15/11/2024 09:00hrs	16/11/2024 17:00hrs	-	-
12	220kV Tsirang-BHP	17/11/2024 09:00hrs	18/11/2024 17:00hrs	-	-
13	220kV Tsirang-Jigmeling	19/11/2024 09:00hrs	20/11/2024 17:00hrs	-	-

3.6 TOMS-Lobeysa, Punakha

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	220kV BHP-Semtokha	12/02/2024 09:00hrs	16/11/2024 17:00hrs	-	Subject to the availability of 220kV CHP-Jamjee D/C line and 220kV Jamjee-

					Semtokha and voltage regulation
2	66kV Dochhula-Lobeysa	15/07/2024 09:00hrs	17/07/2024 17:00hrs	APM	-
		18/07/2024 09:00hrs	20/07/2024 17:00hrs	PT installation	-
3	66kV Dechencholing-Damjee	22/07/2024 09:00hrs	24/07/2024 17:00hrs	APM and Line Signature test	-
4	220kV Tsirang-BHP	05/03/2024 09:00hrs	20/03/2024 17:00hrs	220kV LILO tower erection	Subject to the availability of 220kV CHP-Jamjee D/C line and 220kV Jamjee-Semtokha
5	400kV Jigmeling-Alipurduar Interim I and II	05/02/2024 09:00hrs	05/02/2024 17:00hrs	-	-
6	66/33kV, 10 MVA Transformer-I	15/05/2024 09:00hrs	12/05/2024 17:00hrs	-	-
7	66/33kV, 10 MVA Transformer-II	13/05/2024 09:00hrs	14/05/2024 17:00hrs	-	-
8	66/33kV, 10 MVA Transformer-IV	15/05/2024 09:00hrs	16/05/2024 17:00hrs	-	-

3.7 TOMS-Semtokha, Thimphu

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	220kV CHP-Birpara-I & II	17/01/2024 09:00hrs	22/01/2024 17:00hrs	-	-
2	220kV CHP-Gedu	23/01/2024 09:00hrs	26/01/2024 17:00hrs	-	-
3	66kV CHP-Gedu-Pling	05/02/2024 09:00hrs	09/02/2024 17:00hrs	-	-
4	220kV BHP-Semtokha	10/02/2024 09:00hrs	14/02/2024 17:00hrs	-	Subject to the availability of 220kV CHP-Jamjee D/C line and 220kV Jamjee-Semtokha and voltage regulation
5	220kV CHP-Jamjee	15/02/2024 09:00hrs	19/02/2024 17:00hrs	-	Subject to the availability of 220kV CHP-Jamjee D/C line

6	220kV Jamjee-Semtokha	04/03/2024 09:00hrs	15/03/2024 17:00hrs	-	-
7	66kV Jamjee-Bjemina	25/03/2024 09:00hrs	29/03/2024 17:00hrs	-	-
8	66kV Semtokha-Dechencholing	28/07/2024 09:00hrs	21/07/2024 17:00hrs	-	-
9	66kV Bjemina-Changedaphu	22/04/2024 09:00hrs	26/04/2024 17:00hrs	-	-
10	66kV Dechencholing-Damjee	22/07/2024 09:00hrs	27/07/2024 17:00hrs	-	-
11	66kV Olakha-Changedaphu	27/05/2024 09:00hrs	31/05/2024 17:00hrs	-	-
12	66kV Jamjee-Pangbesa	17/06/2024 09:00hrs	21/06/2024 17:00hrs	-	Coordination required for Haa's power reliability
13	66kV Pangbesa-Haa	24/06/2024 09:00hrs	28/06/2024 17:00hrs	-	-
14	66kV Semtokha-Dochhula	15/07/2024 09:00hrs	19/07/2024 17:00hrs	-	-

15	220/66kV, Transformer-I	50/63	MVA	22/07/2024 09:00hrs	23/07/2024 17:00hrs	-	-
16	220/66kV, Transformer-II	50/63	MVA	25/07/2024 09:00hrs	25/07/2024 17:00hrs	-	-
17	220/66kV, Transformer	40/50	MVA	29/07/2024 09:00hrs	30/07/2024 17:00hrs	-	-
18	66kV Semtokha-Olakha			05/08/2024 09:00hrs	08/08/2024 17:00hrs	-	-
19	66kV Jamjee-Paro			19/08/2024 09:00hrs	31/08/2024 17:00hrs	-	-
20	220kV CHP-Birpara-I			04/11/2024 09:00hrs	09/11/2024 17:00hrs	-	-
21	220kV CHP-Birpara-II			12/11/2024 09:00hrs	16/11/2024 17:00hrs	-	-
22	220kV CHP-Gedu			18/11/2024 09:00hrs	22/11/2024 17:00hrs	-	-
23	66kV CHP-Gedu			25/11/2024 09:00hrs	29/11/2024 17:00hrs	-	-
24	220kV CHP-Jamjee			02/12/2024 09:00hrs	06/12/2024 17:00hrs	-	-

3.8 TOMS-Pling, Chukha

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	66kV CHP-Gedu-Pling	05/02/2024 09:00hrs	09/02/2024 17:00hrs	-	-
2	66kV Pling-Malbase	10/02/2024 09:00hrs	11/02/2024 17:00hrs	-	-
3	66/33kV, 10MVA Transformer-I	12/02/2024 09:00hrs	13/02/2024 17:00hrs	-	Pling
4	66/33kV, 10MVA Transformer-II	14/02/2024 09:00hrs	15/02/2024 17:00hrs	-	Pling
5	66/11kV, 5MVA Transformer	16/02/2024 09:00hrs	17/02/2024 17:00hrs	-	Pling
6	66/11kV, 10/12.5 5MVA Transformer	19/02/2024 09:00hrs	20/02/2024 17:00hrs	-	Pling
7	66kV Pling-Gomtu	02/10/2024 09:00hrs	13/10/2024 17:00hrs	-	-
8	220/66kV, 50/63 MVA Transformer-I	18/01/2024 09:00hrs	20/01/2024 17:00hrs	-	Damdum

9	220/66kV, 50/63 MVA Transformer-II	21/01/2024 09:00hrs	23/01/2024 17:00hrs	-	-
10	220kV Samtse-Malbase	10/01/2024 09:00hrs	11/01/2024 17:00hrs	-	-
11	220kV Samtse-Singhegaon	15/01/2024 09:00hrs	16/01/2024 17:00hrs	-	-
12	220kV Singhegaon-Malbase	12/03/2024 09:00hrs	16/03/2024 17:00hrs	-	-
13	66kV Singhegaon-BFAL	18/03/2024 09:00hrs	22/03/2024 17:00hrs	-	-
14	220kV Bus Coupler	23/03/2024 09:00hrs	23/03/2024 17:00hrs	-	Damdum
15	66kV Singhegaon-BSMPL	25/03/2024 09:00hrs	31/03/2024 17:00hrs	-	-
16	66kV Singhegaon-BCCL	22/04/2024 09:00hrs	25/04/2024 17:00hrs	-	-
17	66/33kV, 5MVA Transformer	24/03/2024 09:00hrs	25/03/2024 17:00hrs	-	Damdum
18	66kV Singhegaon-Concast	06/11/2024 09:00hrs	10/11/2024 17:00hrs	-	-

19	66/33kV, 5MVA Transformer	26/03/2024 09:00hrs	27/03/2024 17:00hrs	-	Damdum
20	66kV Samtse-Gomtu	24/01/2024 09:00hrs	24/01/2024 17:00hrs	-	Damdum
21	220/66kV, 50/63 MVA Transformer	18/09/2024 09:00hrs	19/09/2024 17:00hrs	-	Singhegaon
22	220/66kV, 50/63 MVA Transformer	23/09/2024 09:00hrs	24/09/2024 17:00hrs	-	Singhegaon
23	66/11kV, 10 MVA Transformer	20/09/2024 09:00hrs	20/09/2024 17:00hrs	-	Singhegaon
24	66kV Bus Coupler	26/01/2024 09:00hrs	26/01/2024 17:00hrs	-	Damdum
25	66/11kV, 10 MVA Transformer	25/09/2024 09:00hrs	25/09/2024 17:00hrs	-	Singhegaon
26	220kV Singhegaon-Malbase	26/09/2024 09:00hrs	26/09/2024 17:00hrs	-	-
27	66/33kV, 8 MVA	01/04/2024 09:00hrs	02/04/2024 17:00hrs	-	Gedu
28	66/33kV, 8 MVA	03/04/2024 09:00hrs	04/04/2024 17:00hrs	-	Gedu

29	66/11kV, 5 MVA	05/04/2024 09:00hrs	06/04/2024 17:00hrs	-	Gedu
30	66/11kV, 5 MVA	08/04/2024 09:00hrs	09/04/2024 17:00hrs	-	Gedu
31	66/33kV, 5MVA Transformer	18/03/2024 09:00hrs	19/03/2024 17:00hrs	-	Gomtu
32	66kV Gomtu-Pling	20/03/2024 09:00hrs	20/03/2024 17:00hrs	-	-
33	66/11kV, 5 MVA Transformer	21/03/2024 09:00hrs	22/03/2024 17:00hrs	-	Gomtu
34	66/11kV, 5 MVA Transformer	23/03/2024 09:00hrs	24/03/2024 17:00hrs	-	Gomtu
35	66kV Samtse-Gomtu	25/03/2024 09:00hrs	26/03/2024 17:00hrs	-	-
36	400kV THP-Siliguri-IV	11/12/2024 09:00hrs	22/12/2024 17:00hrs	-	-
37	400kV THP-Siliguri-I	03/01/2024 09:00hrs	15/01/2024 17:00hrs	-	-
38	400kV THP-Siliguri-II	16/01/2024 09:00hrs	30/01/2024 17:00hrs	-	-

39	220kV Malbase-Samtse	12/02/2024 09:00hrs	16/02/2024 17:00hrs	-	-
40	220kV Singhegaon-Samtse	26/02/2024 09:00hrs	29/02/2024 17:00hrs	-	-
41	220kV Malbase-Gedu	01/03/2024 09:00hrs	09/03/2024 17:00hrs	-	-
42	220kV Malbase-Singhegaon	01/03/2024 09:00hrs	09/03/2024 17:00hrs	-	-
43	66kV Pling-Gomtu	02/10/2024 09:00hrs	13/10/2024 17:00hrs	-	-
44	400kV Malbase-Siliguri	25/10/2024 09:00hrs	03/11/2024 17:00hrs	-	-
45	66kV Malbase-Pasakha-IV	06/11/2024 09:00hrs	10/11/2024 17:00hrs	-	-
46	220kV Malbase-Birpara	06/11/2024 09:00hrs	10/11/2024 17:00hrs	-	-
47	220kV CHP-Birpara-I	20/11/2024 09:00hrs	24/11/2024 17:00hrs	-	-
48	220kV CHP-Birpara-II	27/11/2024 09:00hrs	01/12/2024 17:00hrs	-	-

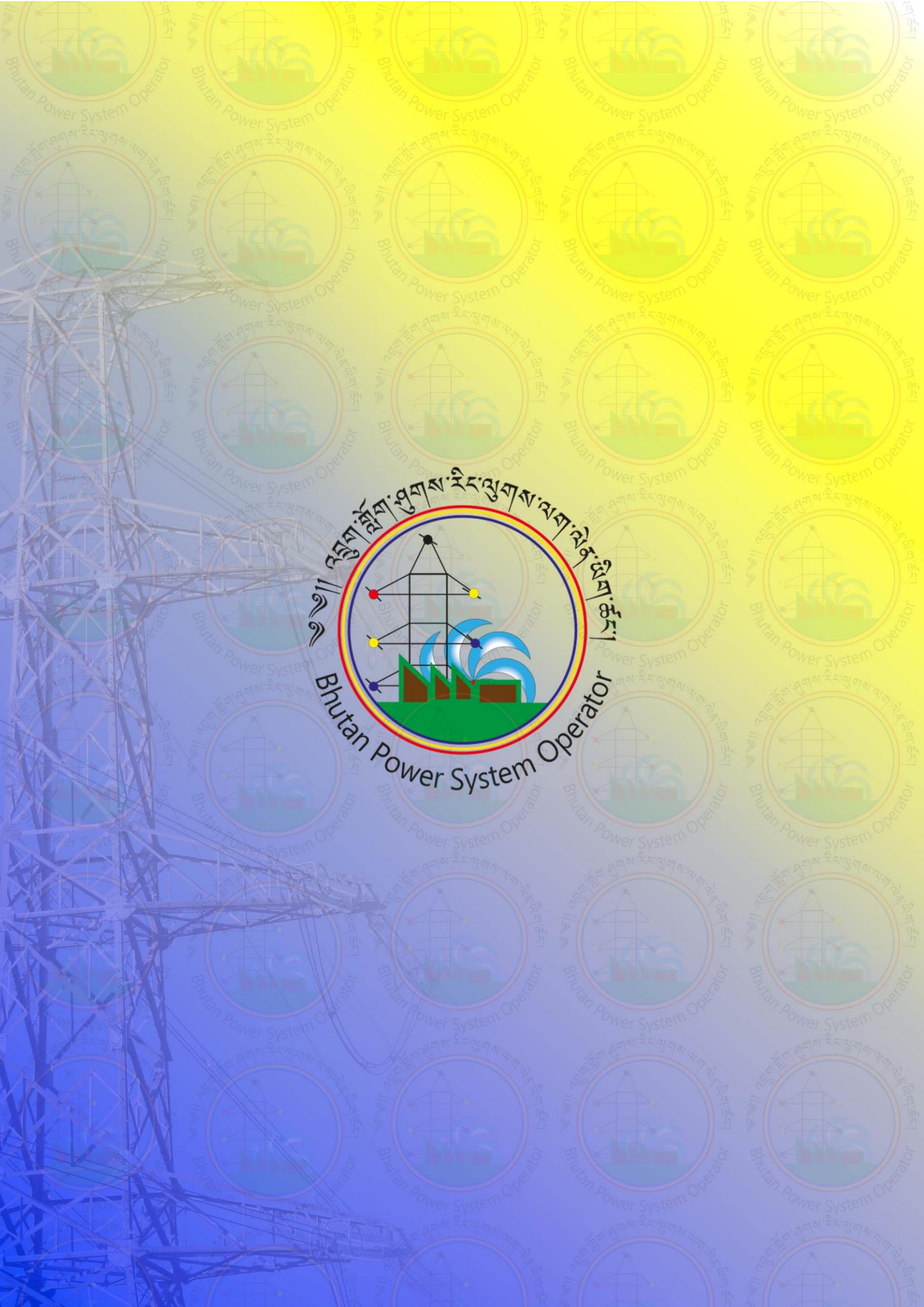
49	400kV THP-Malbase	04/12/2024 09:00hrs	09/12/2024 17:00hrs	-	-
50	400kV THP-Siliguri-IV	12/12/2024 09:00hrs	22/12/2024 17:00hrs	-	-
51	66/11kV, 10 MVA Transformer	20/11/2024 09:00hrs	20/11/2024 17:00hrs	-	Malbase
52	66/11kV, 10 MVA Transformer	21/11/2024 09:00hrs	21/11/2024 17:00hrs	-	Malbase
53	220/66kV, 50/63 MVA Transformer	06/11/2024 09:00hrs	06/11/2024 17:00hrs	-	Malbase
54	220/66kV, 50/63 MVA Transformer	07/11/2024 09:00hrs	07/11/2024 17:00hrs	-	Malbase
55	220/66kV, 50/63 MVA Transformer	08/11/2024 09:00hrs	08/11/2024 17:00hrs	-	Malbase
56	220/66kV, 50/63 MVA Transformer	09/11/2024 09:00hrs	09/11/2024 17:00hrs	-	Malbase
57	400/22kV, 200 MVA ICT Bay	16/10/2024 09:00hrs	20/10/2024 17:00hrs	-	Malbase
58	66kV Malbase-Pasakha-I	06/11/2024 09:00hrs	06/11/2024 17:00hrs	-	-

59	66kV Malbase-Pasakha-II	07/11/2024 09:00hrs	07/11/2024 17:00hrs	-	-
60	66kV Malbase-Pasakha-III	08/11/2024 09:00hrs	08/11/2024 17:00hrs	-	-
61	66kV Malbase-Pling	09/11/2024 09:00hrs	09/11/2024 17:00hrs	-	-
62	400kV Main Bus-I	04/12/2024 09:00hrs	09/12/2024 17:00hrs	-	-
63	400kV Main Bus-II	25/10/2024 09:00hrs	03/11/2024 17:00hrs	-	-

3.9 220/33kV Gedu Substation

Sl. No.	Name of Element/ Feeder/Unit	From Date / Time	To Date / Time	Work Program	Remarks
1	220/33kV, 80 MVA Transformer-I	17/02/2024 09:00hrs	17/02/2024 17:00hrs	Tan Delta test	-
	220/33kV, 80 MVA Transformer-II	18/02/2024 09:00hrs	18/02/2024 17:00hrs		
2	220/33kV, 80 MVA Transformer-I	19/02/2024 09:00hrs	19/02/2024 17:00hrs	LA inspection and IR & leakage test	-
	220kV Gedu-Malbase				
3	220/33kV, 80 MVA Transformer-II	20/02/2024 09:00hrs	20/02/2024 17:00hrs	LA inspection and IR & leakage test	-
	220kV CHP-Gedu				
4	220/33kV, 80 MVA Transformer-I	02/12/2024 09:00hrs	02/12/2024 17:00hrs	LA inspection and IR & leakage test	-
	220kV Gedu-Malbase				

5	220/33kV, 80 MVA Transformer-II	18/11/2024 09:00hrs	18/11/2024 17:00hrs	LA inspection and IR & leakage test	-
	220kV Gedu-Malbase				
6	220/33kV, 80 MVA Transformer-II	18/11/2024 09:00hrs	18/11/2024 17:00hrs	LA inspection and IR & leakage test	-
	220kV Gedu-Malbase				
7	220/33kV, 80 MVA Transformer-I	04/12/2024 09:00hrs	04/12/2024 09:00hrs	CRP and Energy Meter Test	-
	220kV Gedu-Malbase				
8	220/33kV, 80 MVA Transformer-II	05/12/2024 09:00hrs	05/12/2024 09:00hrs	CRP and Energy Meter Test	-
	220kV Gedu-Malbase				



Bhutan Power System Operator

འབྲུག་རྒྱལ་ཁབ་ཤུགས་འོད་ཟེངས་ལྷན་ཁག་གི་འགན་ཁུར་པ་