



भारत सरकार

Government of India

Central Electricity Authority

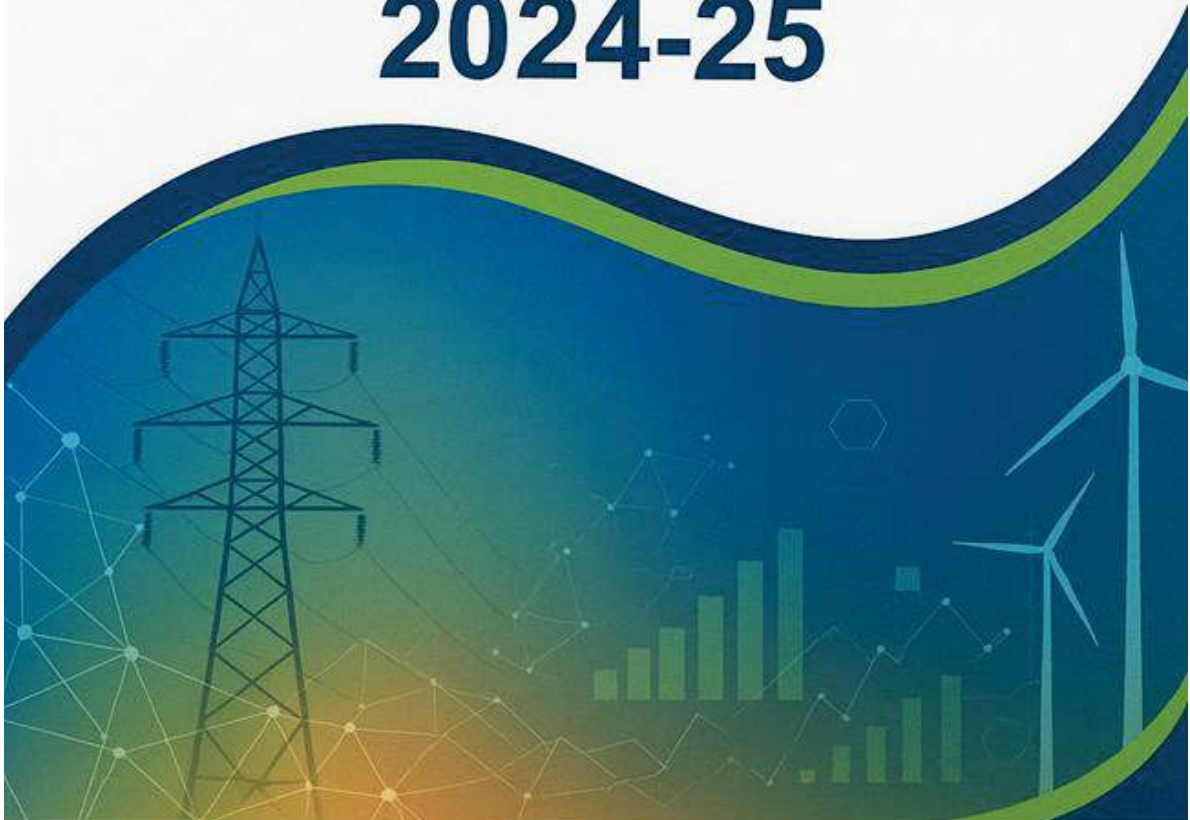
केंद्रीय विद्युत प्राधिकरण

पश्चिमी क्षेत्रीय विद्युत समिति

Western Regional Power Committee

वार्षिक रिपोर्ट

ANNUAL REPORT 2024-25



वार्षिक रिपोर्ट

Annual Report

2024-25

पश्चिमी क्षेत्रीय विद्युत समिति

Western Regional Power Committee

एफ-3,एमआईडीसीक्षेत्र, अंधेरी (पूर्व), मुंबई- 400 093

F-3, MIDC Area, Andheri (East), Mumbai - 400 093



FROM THE MEMBER SECRETARY

It gives me great pleasure to present the Annual Report of the Western Regional Power Committee (WRPC) for the Financial Year 2024–25. This report reflects the collective efforts of all stakeholders in the Western Region in ensuring reliable, secure, and efficient operation of one of the largest and most dynamic regional power systems in the country.

The Western Region continues to play a pivotal role in India's power sector. As on 31 March 2025, the installed capacity in the region reached approximately 159 GW, accounting for nearly one-third of the total installed capacity of the country. During the year, the region witnessed a significant expansion in capacity with the addition of over 12 GW, particularly driven by the rapid growth of renewable energy. Renewable capacity increased to about 69 GW, representing a substantial share of the regional generation mix and highlighting the ongoing transition towards a cleaner and more sustainable energy portfolio.

The region also recorded peak demand of 80,585 MW during the year, reflecting continued economic growth and increasing electricity consumption across the states of Gujarat, Madhya Pradesh, Chhattisgarh, Maharashtra, and Goa, as well as the Union Territories of Dadra & Nagar Haveli and Daman & Diu. Despite this rising demand, the regional grid maintained a robust supply position demonstrating effective planning, coordination and operational discipline among the regional entities.

Grid stability remained a key focus area during the year. The system frequency was maintained close to the nominal value with an average frequency of 50.002 Hz, and the grid operated within the prescribed band for nearly 78% of the time. Such performance reflects the maturity of grid operations and the strong coordination between system operators, utilities, and the WRPC Secretariat.

Significant progress was also made in strengthening the transmission infrastructure. During FY 2024–25, the region witnessed the addition of over 1,900 circuit kilometers of ISTS transmission lines across the 765 kV, 400 kV, and 220 kV network, along with 15,205 MVA of transformation capacity and 1,206 MVar of reactive power compensation. These developments have contributed to improved reliability, better voltage management, and enhanced capability to integrate large-scale renewable energy.

The WRPC Secretariat continued to discharge its statutory and operational responsibilities in areas such as regional energy accounting, deviation settlement mechanism (DSM) accounts, outage coordination, system studies, protection coordination, and transmission planning support. Through its various sub-committees—Technical Coordination Committee, Operation Coordination Committee, Commercial Sub-Committee, Protection Committee, TeST Committee, and Renewable Energy Sub-Committee—the Committee facilitated constructive dialogue and consensus-building among stakeholders to address emerging challenges in grid operation.

The year also saw continued emphasis on improving operational transparency, strengthening protection systems, promoting grid discipline, and facilitating seamless inter-state power exchanges. These efforts are critical as the region moves towards higher levels of renewable penetration and more complex system operations.

The achievements documented in this report are the result of the collective commitment and cooperation of the member utilities, generating companies, transmission licensees, system operators, regulatory bodies, and other stakeholders of the Western Region. I place on record my sincere appreciation for their continued support and collaboration.

I would also like to acknowledge the guidance provided by the Chairman, WRPC, and the Technical Coordination Committee, as well as the dedicated efforts of the officers and staff of the WRPC Secretariat whose professionalism and diligence have been instrumental in fulfilling the Committee's mandate.

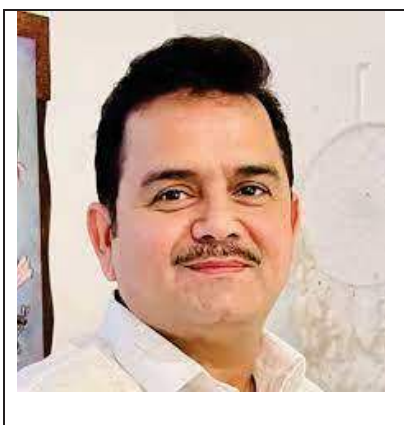
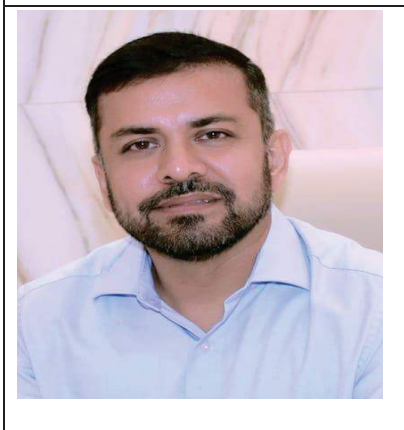
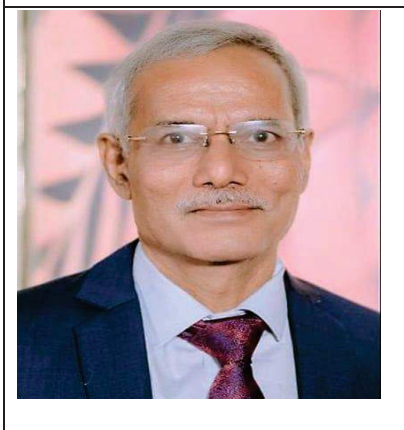
As the power sector continues to evolve with increasing renewable integration, technological advancements, and growing demand, the role of coordinated regional planning and grid management becomes even more critical. WRPC remains committed to facilitating efficient, secure, and resilient operation of the Western Regional Grid in support of the nation's energy transition and economic development.

I hope that this report provides useful insights into the operational performance and key developments of the Western Region during FY 2024–25.

(Deepak Kumar)
Member Secretary

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	Shri P Dayanand IAS (2006 Batch) Chairman, Chhattisgarh State Power Companies. Chairman, WRPC (01.04.2024 to 28.10.2024)
	Dr. Rohit Yadav Secretary (Energy), Government of Chhattisgarh & Chairman, Chhattisgarh State Power Companies. Chairman, WRPC (29.10.2024 to 31.03.2025)
	Shri Rajesh Kumar Shukla Managing Director of the Chhattisgarh State Power Transmission Company Limited (CSPTCL). Chairman, TCC
	Shri Deepak Kumar Member Secretary, WRPC

Western Regional Power Network – Executive Summary for FY 2024-25

The installed capacity of the Western Region (WR) stood at 158.876 GW as on 31.03.2025, the highest among all regions, contributing about 33% to the All-India installed capacity of 475 GW. The installed capacity of WR grew by 8.54% over the previous year, with an addition of 12,496 MW during FY 2024–25, including renewable sources and after accounting for decommissioned capacities.

The total renewable installed capacity in WR including hydro reached 68.762 GW as on 31.03.2025, registering a growth of 22.20% over last year. The share of the renewable including hydro in the total mix improved significantly from 38.44% to 43.28% within a year.

Transmission infrastructure expansion during the year included addition of 1,911.51 ckt. km of 765 kV, 400 kV, and 220 kV transmission lines, along with 15,205 MVA of transformation capacity. Reactive power compensation of 1,206 MVar through bus and line reactors was also added.

System frequency remained within the IEGC band of 49.9–50.05 Hz for 77.93% of the time, with an annual average frequency of 50.002 Hz. The maximum and minimum frequencies recorded were 50.67 Hz and 49.46 Hz respectively.

The peak demand met in the region was 80,585 MW on 30 January 2025 at 10:00 hrs., reflecting an increase of 8.05% over the previous year. The maximum energy requirement recorded was 1,690 MU on 11 March 2025, registering a year-on-year growth of 4.47%.

Installed Capacity Overview:

Installed Capacity (As on 31.03.2025)	
Source	Capacity (MW)
Hydro	7593
Gas	10151
Thermal (Coal + Lignite)	76723
Nuclear	3240
Total (H + G + T + N)	97707
Solar	35754
Wind	21157
Biomass	3567
Small Hydro	691
Total Installed Capacity	158876

Table-1

Installed Generation capacity in Western Region as on 31.03.2025

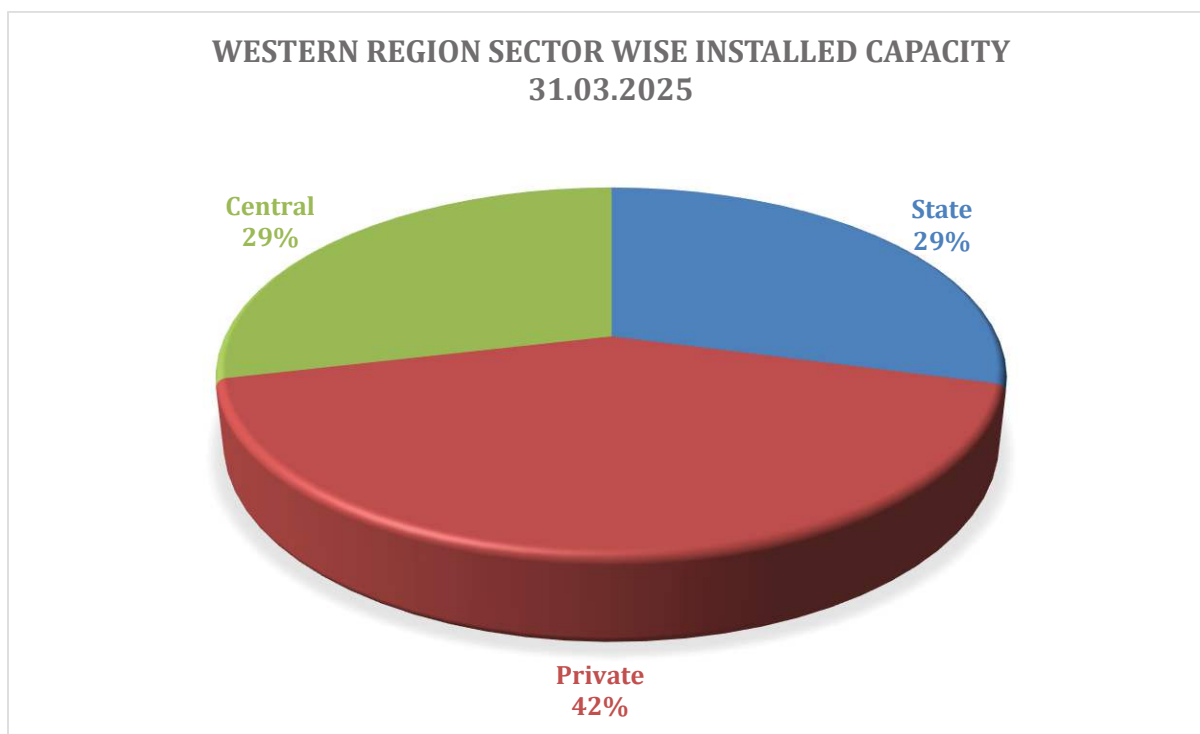


Figure-1

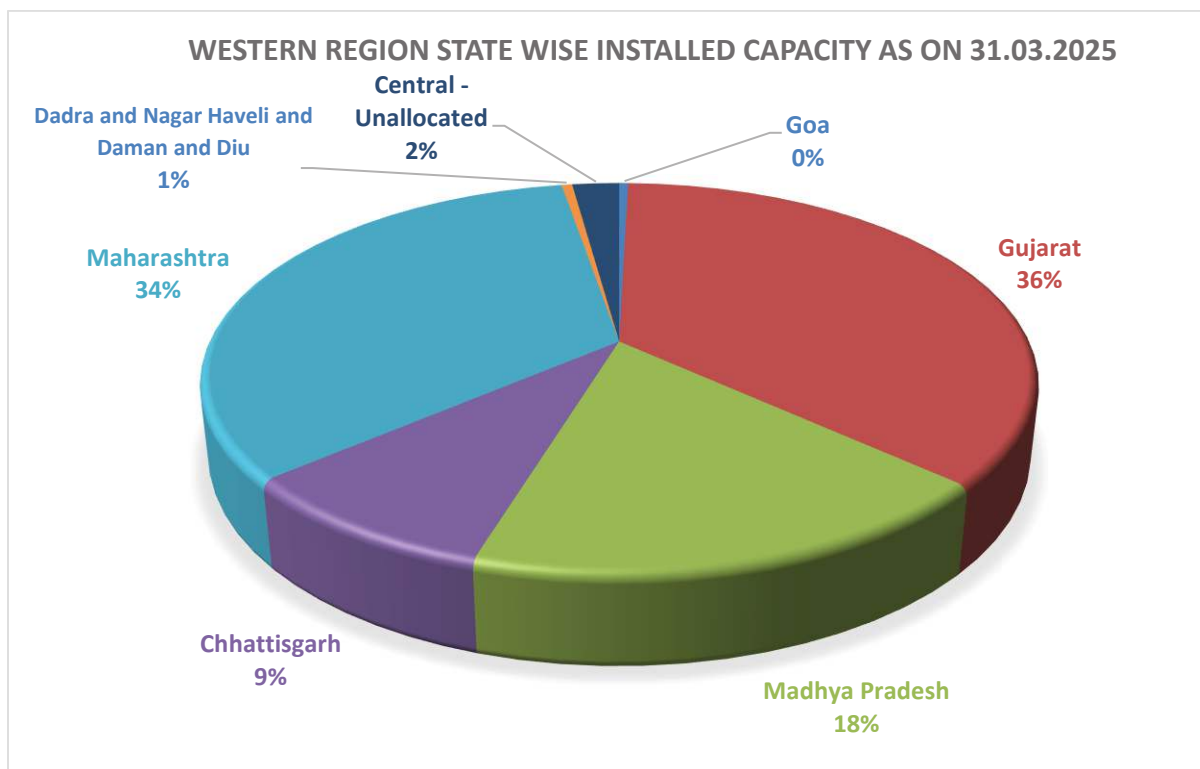


Figure-2

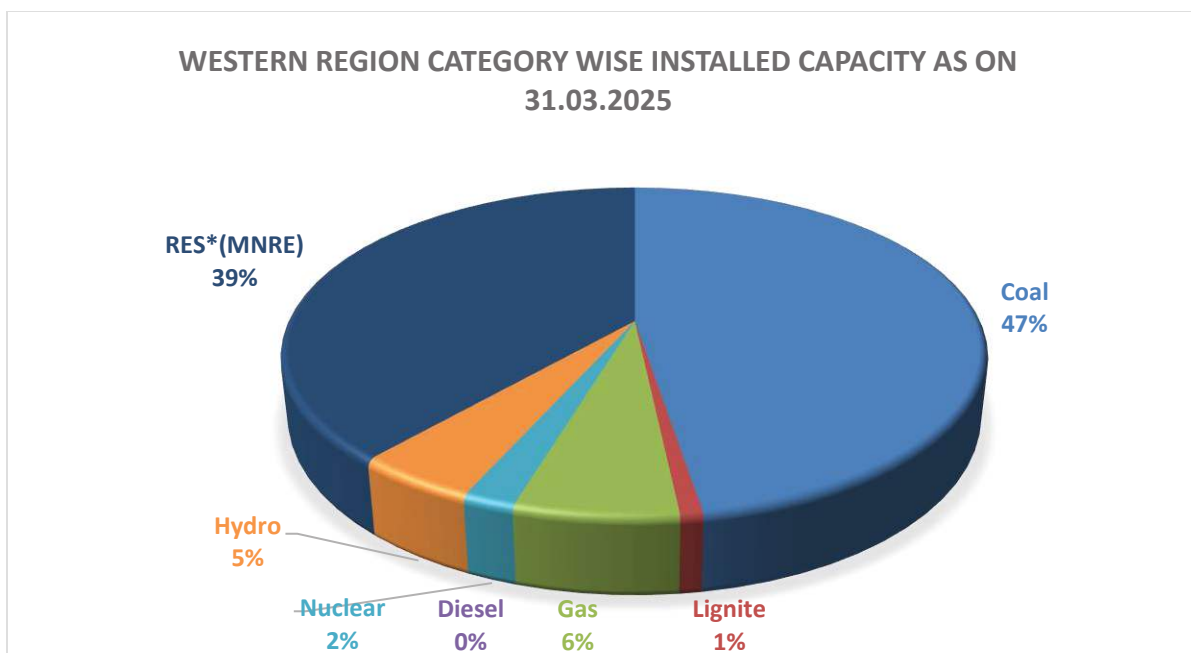


Figure-3

Electricity Demand Overview:

Demand Summary	
Parameter	Value in MW
Max. Peak Load Catered	80585
Max. Unrestricted Demand	80585
Minimum Demand	43650
Shortage	0 %

Table-2

Peak Demand Met (MW) - State/Entity-wise	
State / Entity	Peak Demand Met (MW)
Maharashtra	30675
Gujarat	25588
Madhya Pradesh	18888
Chhattisgarh	6511
Goa	810
AMNSIL	932
DNHDD	1390
BALCO	559

Table-3

Month wise Peak Unrestricted Demand:												
State/ Utility	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Chhattisgarh	6347	6073	5438	5944	5478	5873	5916	4566	5169	5890	6172	6511
Gujarat	23916	24922	25588	19991	21918	24205	22092	21493	22453	23929	23780	24378
Madhya Pradesh	13151	14309	13953	12592	11642	12596	13549	17815	18888	18580	18596	16622
Maharashtra	28924	28452	28310	24174	24664	25358	26613	27845	28632	29826	30151	30675
DNHDD	1292	1348	1353	1343	1321	1356	1390	1343	1362	1353	1356	1377
Goa	803	803	799	696	690	718	741	743	749	754	765	810
AMNSIL	922	911	850	858	899	832	907	905	932	806	844	854
BALCO	526	525	526	531	559	530	534	533	537	535	536	538
Western Region	73511	74829	74933	61998	63713	68493	68568	72959	77438	80585	80523	78082

Table-4

Energy Generation & Requirement	
Parameter	Value in MU
Energy Generation (H+G+T+N)	571048
Renewable Energy Injection	69897
Total Energy Generation (H+G+T+N+RE)	640945
Net Energy Requirement Met	538735
Net Unrestricted Energy Requirement	538965
Energy Shortage	0.04 %

Table-5

Month wise Energy Requirement:												
State/ Utility	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Chhattisgarh	3978	3679	3470	3611	3303	3549	3853	2712	3045	3514	3709	4392
Gujarat	14015	14990	14324	12373	11825	12412	13185	11809	12701	12839	12274	13982
Madhya Pradesh	8018	9053	7916	7700	7252	7295	8024	9413	10026	10071	9713	9064
Maharashtra	18528	18846	16628	15511	15647	15459	16873	16708	17572	18397	17596	20400
DNHDD	864	922	907	922	896	902	938	869	928	922	848	924
Goa	480	506	434	409	428	412	455	433	444	444	424	504
AMNSIL	571	563	508	532	564	493	575	564	548	518	490	534
BALCO	374	387	375	390	389	378	392	379	392	393	356	395
RIL Jamnagar	0	0	0	0	0	0	0	0	36	94	126	181
Western Region	46828	48947	44562	41448	40304	40900	44294	42886	45692	47192	45535	50377

Table-6

Frequency Overview:

- Average Grid Frequency: 50.002 Hz
- Max Grid Frequency: 50.67 Hz | Min Grid Frequency: 49.46 Hz
- Frequency within IEGC range (49.9–50.05 Hz): 77.93%

Frequency Regime	
Parameter	Value
Average Grid Frequency	50.002 Hz
Maximum Grid Frequency	50.67 Hz
Minimum Grid Frequency	49.46 Hz
% Time Frequency Below IEGC Range (<49.7 / <49.9)	5.15 %
% Time Frequency in IEGC Band (49.7–50.2 / 49.9–50.05)	77.93 %
% Time Frequency Above IEGC Range (>50.2 / >50.05)	16.92 %

Table-7

Western Region Frequency profile during the FY 2024-25			
Month	<49.9	49.9-50.05	>50.05
Apr-24	5.25	78.56	16.19
May-24	2.49	80.04	17.47
Jun-24	4.50	79.17	16.32
Jul-24	6.41	78.43	15.17
Aug-24	4.66	75.01	20.33
Sep-24	6.09	77.13	16.79
Oct-24	4.86	80.28	14.87
Nov-24	5.15	80.80	14.05
Dec-24	5.58	76.45	17.97
Jan-25	5.22	76.05	18.73
Feb-25	6.24	75.35	18.41
Mar-25	5.32	77.90	16.78

Table-8

Transmission (ISTS) Overview:

- Transmission lines added: 1911.51 Ckt. km (765 kV, 400 kV, 220 kV)
- Transformation capacity added: 15205 MVA
- Reactive compensation added: 1206 MVAR

Transmission Lines	
Voltage Level	Line Length (Ckt. Km)
765 kV	29241
400 kV	75509
220 kV	56908

Table-9

CHAPTER -1

Constitution, Functions and Organizational Setup

1.1 Introduction

The western region comprising of the States of Gujarat, Madhya Pradesh, Chhattisgarh, Maharashtra & Goa and the Union Territories of Daman & Diu and Dadra & Nagar Haveli have an area of about 9,51,706 sq. km, which is around 29% of the total area of the country. The Western Regional Power Committee (WRPC), functioning under the aegis of the Central Electricity Authority, Ministry of Power, Government of India, plays a vital role in facilitating coordination and cooperation among the power utilities of the Western Region. The Committee serves as an institutional platform for addressing matters related to integrated grid operation, power system planning, and regional coordination among the constituent states and central sector utilities.

The Annual Report presents an overview of the activities and achievements of WRPC during the year. It highlights the efforts undertaken to ensure secure, reliable, and efficient operation of the regional power system, strengthen coordination among stakeholders, and address emerging challenges in the evolving power sector. The report also captures key deliberations, initiatives, and developments that have contributed to the stability and growth of the power sector in the Western Region.

Through sustained cooperation among member utilities and continued guidance from the Ministry of Power and the Central Electricity Authority, WRPC remains committed to support reliable operation of the interconnected grid and promoting the efficient development of the regional power system in the interest of the nation.

1.2 Constitution

The Western Regional Power Committee (WRPC) was constituted by the Government of India under the provisions of Sub-section (2) of Section 55 of the Electricity Act 2003, in pursuance of the policy framework for regional coordination in power system operation. Accordingly, the Government of India, vide Resolution No. 23/1/2004-R&R dated 25th May 2005, published in the Gazette of India, established WRPC comprising the Power Utilities of Chhattisgarh, Gujarat, Madhya Pradesh, Maharashtra and Goa, along with the Union Territories of Daman and Diu and Dadra and Nagar Haveli.

Subsequently, the Government of India issued amendments to the above resolution vide notifications dated 29th November 2005 and 9th May 2008. The relevant notifications are as follows:

- Resolution No. 23/1/2004-R&R dated 25th May 2005.
- First Amendment dated 29th November 2005.
- Second Amendment dated 9th May 2008.

Further, the Government of India issued a revised notification vide Resolution F. No. 23/21/2021-R&R dated 3rd December 2021, published in the Gazette of India, detailing the constitution and membership of the WRPC.

Composition of WRPC

The composition of WRPC, as per the above notification, is as follows:

- i. Member (Grid Operation), Central Electricity Authority (CEA).
- ii. One representative each from Central Generating Companies, Central Transmission Utility (CTU), National Load Despatch Centre (NLDC) and Western Regional Load Despatch Centre (WRLDC).
- iii. From each of the States in the region State Generating Company, State Transmission Utility (STU), State Load Despatch Centre (SLDC), One State-owned distribution company nominated by the State Government and One private distribution company functioning in the region, nominated by alphabetical rotation.
- iv. From each of the Union Territories in the region, a representative nominated by the administration of the respective Union Territory from among entities engaged in generation, transmission, or distribution of electricity.
- v. One representative of every generating company (other than Central or State Government generating companies) having more than 1000 MW installed capacity in the region.
- vi. One representative of generating companies having power plants in the region (not covered under the above categories) by alphabetical rotation.
- vii. One member representing electricity traders operating in the region, selected by alphabetical rotation from traders having a trading volume exceeding 500 million units during the previous financial year.
- viii. Member Secretary, WRPC – Convenor.

In categories (v) & (vi), respective associations would send their representative to the WRPC. The representative from respective organizations should be either the head of the organization or at least a person not below the rank of a Director on the Board of the company/corporate entity except for Central Public Sector Undertakings (CPSUs) where representative could also be the level of Executive Director. Wherever a member is represented by rotation, the nomination would be for a period of one year. The Chairperson of the WRPC would represent the States of Western Region by rotation. Term of the Chairperson would be for a period of one year.

1.3 Members Of WRPC

In pursuance of the GOI Resolutions and on the basis of nominations received from various utilities, the members of WRPC for FY 2024-25 were as under:

Sr. No.	Organization	Name of Member	Designation of Member
1	Western Regional Power Committee (WRPC)	Shri P. Dayanand Dr. Rohit Yadav	Chairman, WRPC
2	Central Electricity Authority	Shri Hemant Jain	Member (GO&D)
3	Chhattisgarh Transco	Shri R.K. Shukla	Managing Director
4	Chhattisgarh Genco	Shri Sanjiv Kumar Katiyar	Managing Director
5	Chhattisgarh Discom	Shri Bhim Singh Kanwar	Managing Director
6	Chhattisgarh SLDC	Shri K.S. Manothiya	Executive Director
7	Gujarat Genco (GSECL)	Shri Somes Bandyopadhyay	Managing Director
8	Gujarat Transco	Shri Upendra Pande	Managing Director
9	Gujarat Discom (Rotational – Uttar Gujarat)	Shri Arun Mahesh Babu, IAS	Managing Director
10	Gujarat SLDC	Shri Kanti Bhuva	Chief Engineer
11	M.P. Transco	Shri Sunil Tiwari	Managing Director
12	M.P. Genco	Shri Manjeet Singh	Managing Director
13	MP Discom (MP Paschim KVVCL – Rotational)	Shri Sachin Talewar	Director (Technical)
14	M.P. SLDC	Shri Pradeep Sachan	Chief Engineer
15	Maharashtra Transco	Shri Dinesh Waghmare, IAS	CMD

16	Maharashtra Genco	Dr. P. Anbalagan, IAS	CMD
17	Maharashtra Discom	Shri Lokesh Chandra, IAS	CMD
18	Maharashtra SLDC	Shri Shashank Jewalikar	Executive Director
19	Goa	Shri Stephen Fernandes	Chief Electrical Engineer
20	UT of Daman & Diu and Dadra & Nagar Haveli	Shri Arun T., IAS	Secretary (Power)
21	Central Govt. Genco (NTPC)	Shri Jaikumar Srinivasan	Director (Finance)
22	Central Govt. Genco (NPCIL)	Shri Choudhary Nitin Ramchandra	Executive Director
23	CTU	Shri Ashok Pal	COO
24	Powergrid	Shri Naveen Srivastava	Director (Operations)
25	National LDC	Shri S.C. Saxena	Director (Market Operations)
26	Regional LDC	Shri V Balaji	Executive Director
27	Other Gencos (>1000 MW) – Trombay (Tata Power)	Shri Ashish Khanna	President (Generation Business)
28	Other Gencos (>1000 MW) – RGPPL	Shri Santosh Kumar Takhele	CEO
29	Other Gencos (>1000 MW) – NHDC	Shri Rajeev Jain	Managing Director
30	Other Gencos (>1000 MW) – Torrent Power	Shri Jigish Mehta	Executive Director
31	Other Gencos (>1000 MW) – Adani Power Ltd	Shri Jayadeb Nanda	COO (O&M)
32	Other Gencos (>1000 MW) – JSW Energy Ltd	Shri Jyotiprakash Panda	Head Regulatory & Power Sale
33	Other Gencos (>1000 MW) – Jindal Power Ltd	Shri Chavvi Nath Singh	ED & Plant Head
34	Other Gencos (>1000 MW) – Rattan India Power Ltd	Shri Baliram Jadhav	VP & Station Head
35	Other Gencos (>1000 MW) – Jaypee Nigrie STPP	Shri Vinod Sharma	President and Plant Head
36	Other Gencos (>1000 MW) – D.B. Power Ltd	Shri Manu Namboothiri	Chief Operating Officer
37	Other Gencos (>1000 MW) – KSK Mahanadi Power Co. Ltd	Shri G.P. Rao	Project Head

38	Other Gencos (>1000 MW) – MB Power (MP) Ltd	Shri Abhishek Gupta	Vice President – Thermal
39	Other Gencos (>1000 MW) – Sasan UMPP	Shri Subrata Ghosh	Project Head
40	Other Gencos (>1000 MW) – RKM Power Gen.	Shri S.K. Bhatnagar	Director & Plant Head
41	Other Gencos (>1000 MW) – Adani Green Energy	Shri Chaitanya Prasad Sahu	CEO
42	Other Gencos (>1000 MW) - Inox Wind Limited	Shri Manoj Dixit	Head Power Management
43	Other Gencos (>1000 MW) – GIPCL	Shri P.S. Goyal	General Manager (RE-O&M)
44	Other Gencos (>1000 MW) – BALCO	Shri Vikash Agarwal,	
45	Other Gencos (>1000 MW) – Renew Power	Shri Sunil Barnwal	General Manager – CO Head
46	Other Gencos (>1000 MW) – Avada Energy Power	Shri Rajesh Bihari Dwivedi	CEO
47	Other Gencos (<1000 MW, Rotational) – ACB India Limited	Shri H M Jain	Director
48	Private Distribution Company (Rotational) - BEST	Shri R D Patsute	CE (Regulatory)
49	Private Transmission Licensee (Rotational) - CWRTL	Shri Nitish Ranjan	AVP
50	Western Regional Power Committee (WRPC)	Shri Deepak Kumar	Member Secretary

Table-1.1

1.4 Headquarters And Secretariat Of WRPC

As per GOI Resolution F. No. 23/21/2021-R&R dated 3rd December 2021 (read with its corrigendum issued vide F. No. 23/21/2021-R&R dated 17th December 2021), the headquarters of WRPC is located at Mumbai. The secretariat of WRPC is headed by Member Secretary, who is an officer of Central Power Engineering Services (Group-A). Member Secretary is the administrative and technical head of WRPC Secretariat with the powers of the Head of Department. The other Group-A officers in the WRPC also belong to the cadre of the Central Power Engineering Service (Group-A). Group-B officers in WRPC are borne on the strength of CPES (Group-B) Cadre of the Govt. of

India, while other non-technical staff are on the strength of General Central Service of the Govt. of India. The details of officers of WRPC as on 31.03.2025 are given in **Annexure-1.4.1**. The position of sanctioned, filled, and vacant posts in WRPC as on 31.03.2025 is provided in **Annexure-1.4.2**. The detailed organizational chart of WRPC as on 31.03.2025 is given as under:

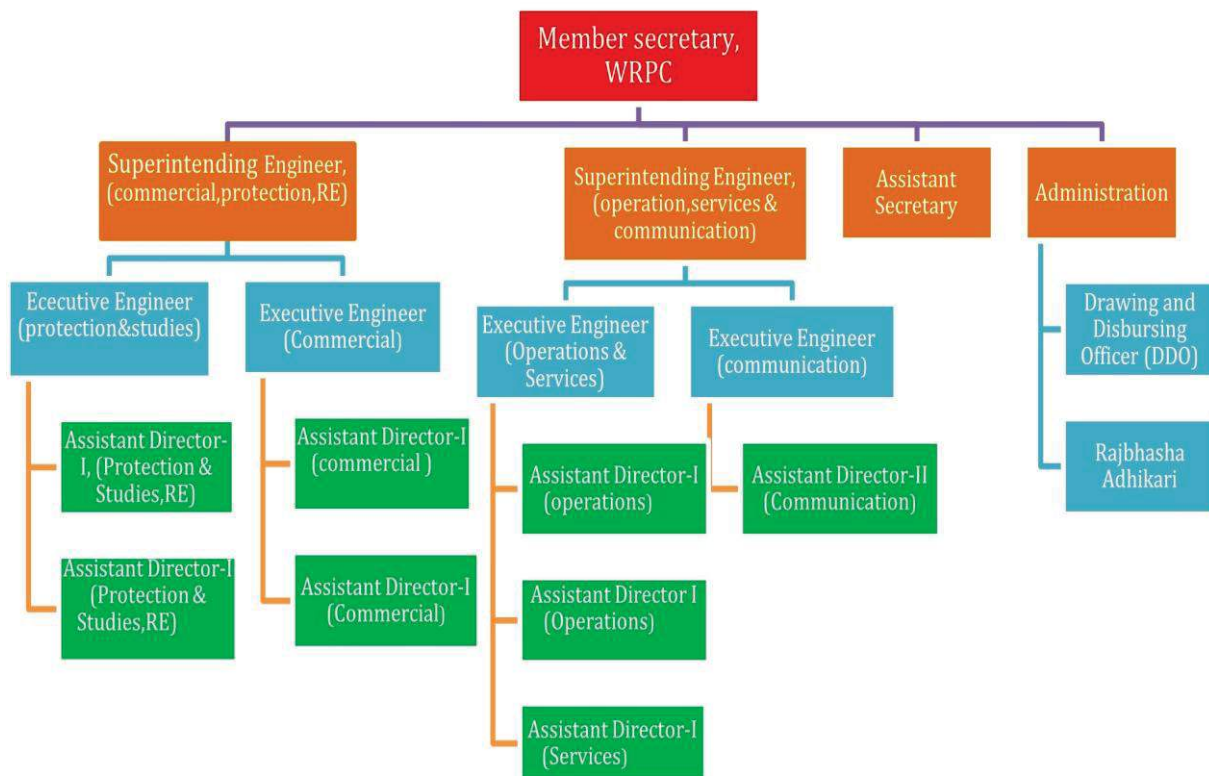


Figure-1.1

1.5 Functions Of WRPC

Function of WRPC is to facilitate stability and smooth operation of the integrated grid and economy & efficiency in the operation of power system in the region. As per paragraph no. 6 of the MOP Resolution dated 03.12.2021, WRPC is mandated to carry out following functions: -

1. To undertake Regional Level operation analysis for improving grid performance.
2. To facilitate inter-state/inter-regional transfer of power.
3. To facilitate all functions of planning relating to inter-state/ intra-state transmission system with CTU/STU.

3A- To provide views on the inter-state transmission system planned by CTU within 45 days of receipt of the proposal by the concerned RPC. The views of RPC will be considered by National Committee on Transmission for sending their recommendation to Ministry of Power for approval of new inter-state transmission system.

4. To coordinate planning & maintenance of generating machines of various generating companies of the region including those of inter-state generating companies supplying electricity to the Region on an annual basis and also to undertake review of maintenance program on a monthly basis.
5. To undertake planning of outage of transmission system on a monthly basis.
6. To undertake operational planning studies including protection studies for stable operation of the grid.
7. To undertake planning for maintaining proper voltages through review of reactive compensation requirement through system study committee and monitoring of installed capacitors.
8. To evolve consensus on all issues relating to economy and efficiency in the operation of power systems in the region.

In addition to the above, CERC has entrusted the following functions to Member Secretary, WRPC / WRPC Secretariat under IEGC / various Regulations:

- a) To facilitate coordination among regional constituents on matters relating to power system operation, planning, and reliability of the regional grid.
- b) To undertake analysis of grid disturbances and significant system events in the region and recommend remedial measures for improving grid security and performance.
- c) To review operational performance and grid discipline of regional entities and analyze operational data relating to generation, transmission outages, and system performance.
- d) To coordinate protection systems in the region including periodic inspection of under-frequency relays and coordination of protection audits.
- e) To collect, compile, and analyze operational data and prepare and publish periodic regional operational reports and technical publications.
- f) To prepare and issue commercial accounts including:

- i. Regional Energy Accounts (REA) and Bilateral Energy Accounts
 - ii. Weekly Deviation Charges and Reactive Energy Charges Accounts
 - iii. Regional Transmission Accounts and Regional Transmission Deviation Accounts
 - iv. Secondary Fuel Oil Compensation and Auxiliary Heat Rate Degradation Compensation Accounts.
- g) To certify the availability of Regional AC and HVDC transmission systems for the purpose of transmission charge computation.
 - h) To assist in identification of transmission constraints and operational issues affecting regional grid security.
 - i) To facilitate inter-state and inter-regional transfer of power and coordination among regional stakeholders including generating companies, transmission utilities, traders, and Load Despatch Centres.
 - j) To provide a forum for discussion and resolution of operational and technical issues among regional stakeholders through meetings of the Regional Power Committee and the Technical Coordination Committee (TCC).
 - k) To facilitate planning related to inter-state and intra-state transmission systems in coordination with the Central Transmission Utility of India Limited and State Transmission Utilities.
 - l) To coordinate planning of maintenance of generating units of various generating companies in the region, including interstate generating stations, on an annual basis and review the maintenance program on a monthly basis.
 - m) To coordinate planning of outages of the regional transmission system on an annual and monthly basis.
 - n) To undertake regional operational planning studies, including protection studies and other system studies, for stable and secure operation of the grid.
 - o) To facilitate exchange of operational information among regional constituents and support coordination between Regional Load Despatch Centres and State Load Despatch Centres.
 - p) To perform such other functions as may be assigned by the Central Electricity Authority or the Central Electricity Regulatory Commission from time to time.

1.6 Sub-Committees Of WRPC

The following Sub-Committees have been constituted by WRPC to guide and assist it in conducting the functions assigned to it:

- a) Technical Co-Ordination Sub-Committee (TCC)
- b) Operation Co-Ordination Sub-Committee (OCC)
- c) Commercial Sub-Committee (CC)
- d) Protection Sub-Committee (PC)
- e) Telecommunication, Scada & Telemetry (TeST) Sub-Committee
- f) Renewable Energy (RE) Sub-Committee

1.7 Budget and Financials of WRPC Secretariat Expenditure

CEA, vide its letter dated 01.05.2023, has streamlined the process of fund utilization/budgetary provisions for all RPCs therewith circulating the Standard operating procedures (SoP). As per the provisions of the SoP, WRPC operates the WRPC Establishment Fund Account and all the expenditure of the WRPC secretariat is contributed to by the members of WRPC. The budget is approved by WRPC in its meetings and the expenditure therein is audited as per the provisions of the SoP.

The budget provision and the actual expenditure of 2024-25 is given below: -

(All Figures shown in Rs.)

Object Head	Sanctioned Budget for 2024-25	2025/ Exp. Upto March-2025
Salaries	19,500,000	14,780,871
Allowances	13,200,000	10,173,560
L.T.C.	500,000	483,472
Rewards	100,000	36,940
Office Expenses	14,700,000	15,211,622
DTE	2,300,000	1,717,608
Medical Treatment	900,000	91,008
Training Expenses	200,000	254,879
R.R. & T.	9,000,000	12,456,432
Minor Works	60,000,000	16,870,191
Repair & Maintenance	400,000	99,659
ICT Information, ICT Equipment	2,000,000	3,389,518
Furniture & Fixtures	10,000,000	1,132,453
Land	2,000,000	0
Other Charges	100,000	0
Gr. Total	134,900,000	76,698,213

Table-1.2

1.8 Power Map of Western Region

A power map of the Western Region 765/400 and including major 220/132 kV lines as on 31.03.2025 is at **Annexure 1.8.1**.

CHAPTER-2

Regional Grid Performance

2.1 Western Region Installed Capacity

As of 31st March 2024, the total installed capacity of the Western Region stood at 146,380 MW. By 31st March 2025, this had increased to 158,876 MW, reflecting a net addition of 12,496 MW and an overall growth of 8.54% during the year. The growth was primarily driven by the expansion of renewable energy capacity with growth of 22.2%, while coal generation capacity witnessed a marginal increase of 660 MW. The gas-based generation capacity witnessed reduction of 655 MW.

From a mode-wise perspective, renewable energy sources (Including Hydro) registered the highest increase, rising from 56,271 MW as on 31.03.2024 to 68,762 MW as on 31st March 2025. Consequently, the share of renewables in the total mix improved significantly from 38.44% to 43.28% within the year. Fossil fuel-based capacity share in the mix shown decrease from 59.35% to 54.68%. This indicates a gradual shift in the region's energy portfolio towards clean energy, while maintaining stability from conventional sources.

Western Region has demonstrated steady capacity growth with a strong emphasis on renewable energy. The year-on-year comparison highlights the ongoing transition in the generation portfolio, with renewable energy emerging as a significant component of the installed base, while thermal power continues to play a critical role in ensuring reliability and meeting base demand.

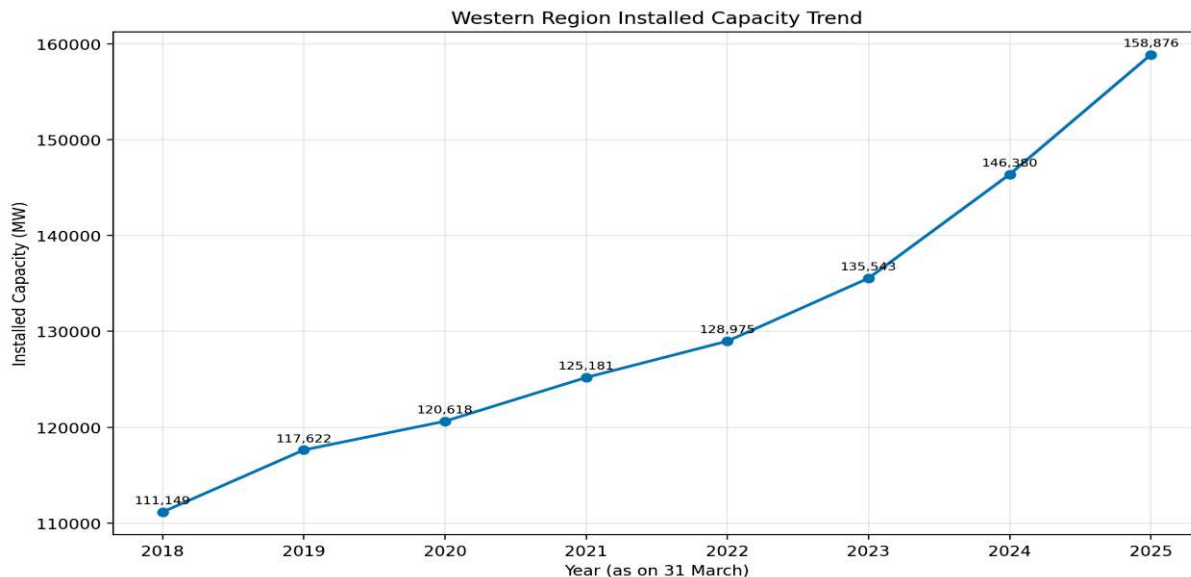


Figure-2.1

2.2 Power Supply Position:

During the financial year 2024-25, the Power Supply position was satisfactory.

2.2.1 Peak Demand:

- i. No Peak Demand shortfall was observed in April, May, June, November, and March, highlighting effective demand–supply balance in these periods.
- ii. Minor deviations occurred in December, January, and February, with shortfalls remaining below 0.2%.
- iii. The most significant shortfall occurred in August 2024, with a deficit of 3,306.5 MW (4.93%), followed by September 2024 at 1,349.97 MW (1.93%). July 2024 also reflected a marginal shortfall of 0.27%
- iv. Despite high demand in December to February, availability was nearly on par, keeping the shortfall negligible.

2.2.2 Energy requirement:

- i. Monthly unrestricted requirement ranged between 40,304 MU (August 2024) and 50,377 MU (March 2025).
- ii. Total availability (net actual supply) remained nearly equal and absolute shortfalls were very low, ranging from 1.7 MU to 47 MU.
- iii. Highest shortfall was in September 2024 (46.96 MU, 0.12%) followed by August 2024 (44.45 MU, 0.11%).
- iv. In most other months, shortfall remained below 0.05%.

2.3 Demand

2.3.1 WR Solar Hour Unrestricted Peak Demand (MW) Trend in recent year:

FY/ Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
2019-20	56222	57093	56768	52509	47633	45562	50427	54375	56739	58643	59416	56851
2020-21	43729	51148	47627	47860	46427	49368	52702	57890	61199	61692	61242	59885
2021-22	60981	56071	52294	58995	58608	52195	54891	60856	63140	63829	64608	65205
2022-23	69350	68091	65825	53551	56976	57709	58367	66739	71677	71053	69777	70133
2023-24	70233	68671	69022	58064	72556	73948	71411	73288	74431	74583	73830	70528
2024-25	73511	74829	74933	61393	62122	68493	68568	66907	68543	70711	71753	72148

Table-2.1

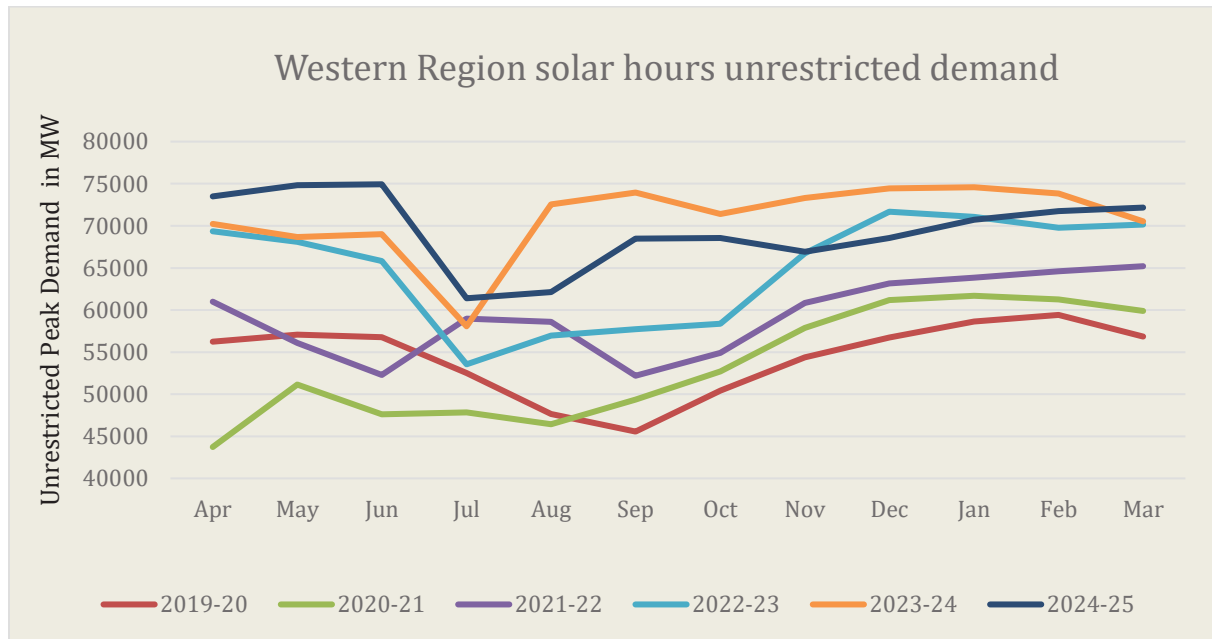


Figure-2.2

The Western Region's peak Solar demand has grown at a compound annual growth rate (CAGR) of 4.75% over the past five years, rising from 56 GW in 2019–20 to 74 GW in 2024–25. Despite this growth, the demand continues to show a recurring seasonal dip of 12–18% during the monsoon months (July–August).

2.3.2 WR Solar Hour Unrestricted Peak Demand (MW) in FY 2024-25:

The highest solar hour unrestricted peak demand during the year was recorded in June 2024 (74,933 MW), while the lowest was in July 2024 (61,393 MW).

- Demand was consistently high from April to June 2024 (above 73,500 MW) and dropped sharply during the monsoon months.
- A significant reduction of nearly 14,000 MW is observed between June and July 2024, highlighting the monsoon impact.
- From September 2024 onwards, the demand gradually increased, stabilizing above 66,000 MW.
- During winter months, demand increased further, reaching 71,753 MW in February 2025 and 72,148 MW in March 2025.

The details of the solar hour unrestricted peak demand for the Western region are given in the table below:

State	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Chhattisgarh	6201	5724	5326	5944	5478	5873	5853	4542	4891	5589	6104	6511
Gujarat	23916	24922	25588	19991	21918	24205	20794	19340	19647	19801	20548	21189
Madhya Pradesh	13048	14309	13953	12592	11642	12596	13134	14144	15088	15102	15014	14349
Maharashtra	28924	28452	28310	23531	24213	25358	26613	26446	26667	27203	28460	29258
DDDNH	1292	1348	1345	1343	1321	1356	1389	1343	1362	1353	1356	1377
Goa	760	760	731	645	660	655	741	743	749	754	765	810
AMNSIL*	922	880	835	825	839	822	892	898	932	806	844	854
BALCO*	526	525	526	531	529	530	534	532	537	534	536	537
Western Region	73511	74829	74933	61393	62122	68493	68568	66907	68543	70711	71753	72148

*Bulk Consumers

Table-2.2

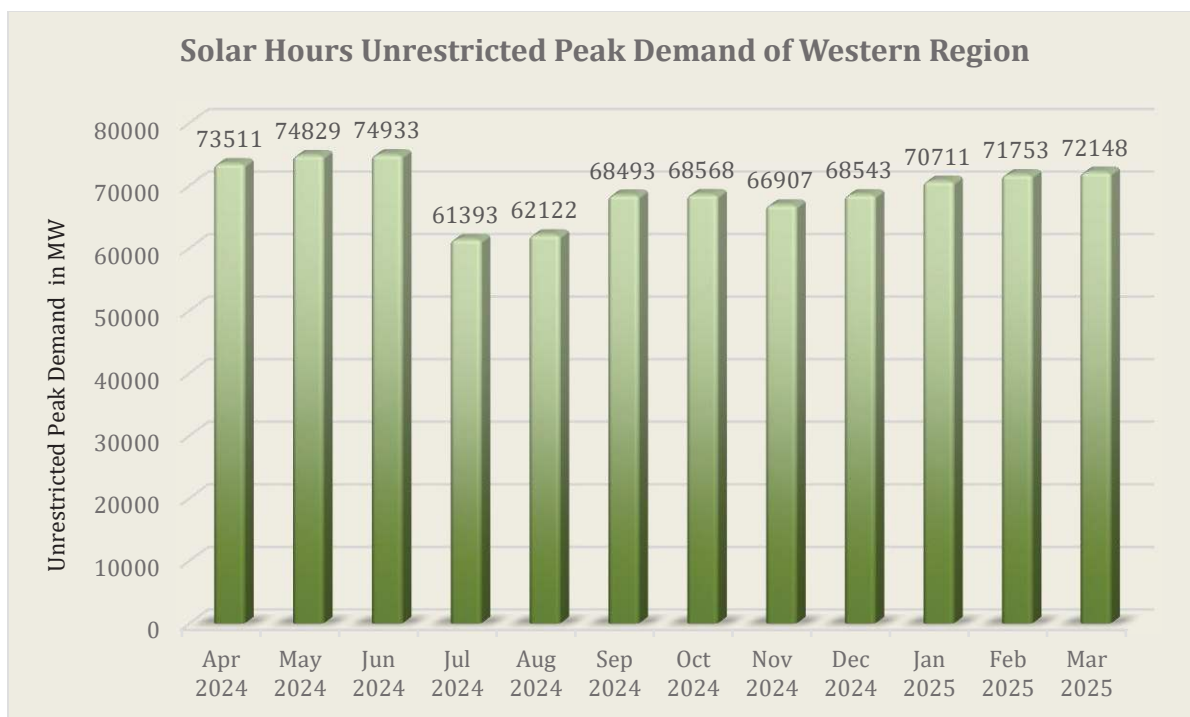


Figure-2.3

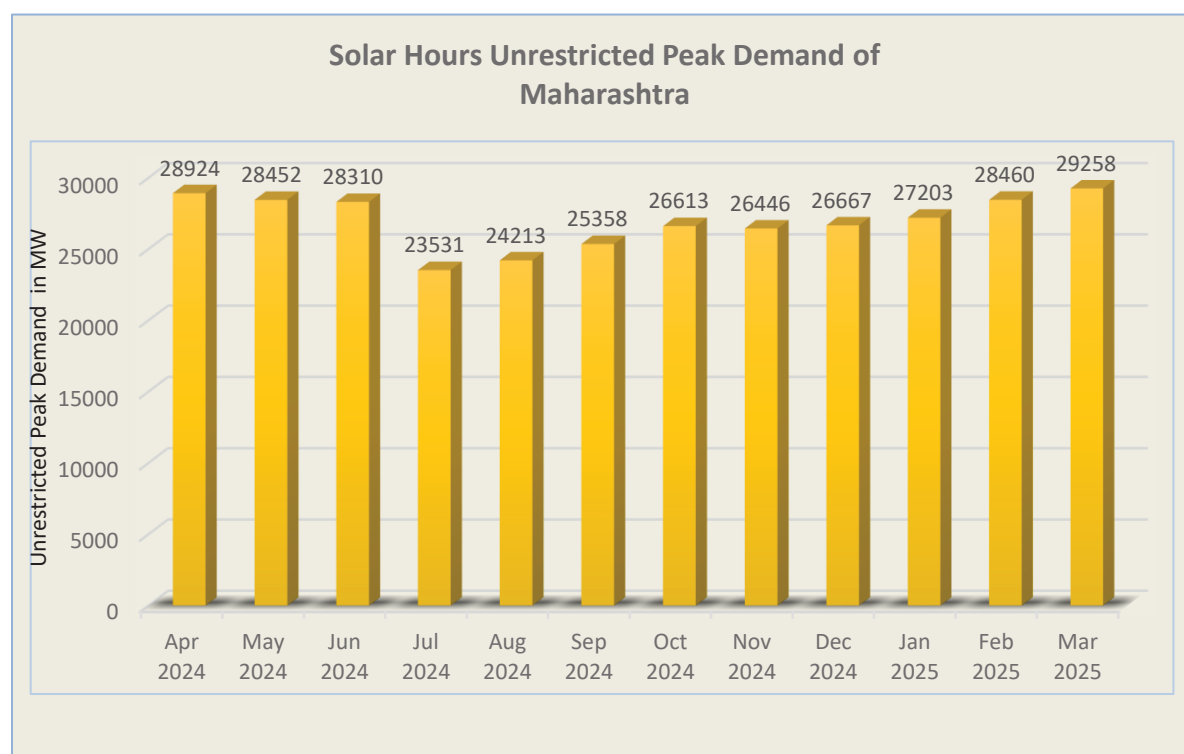


Figure-2.4

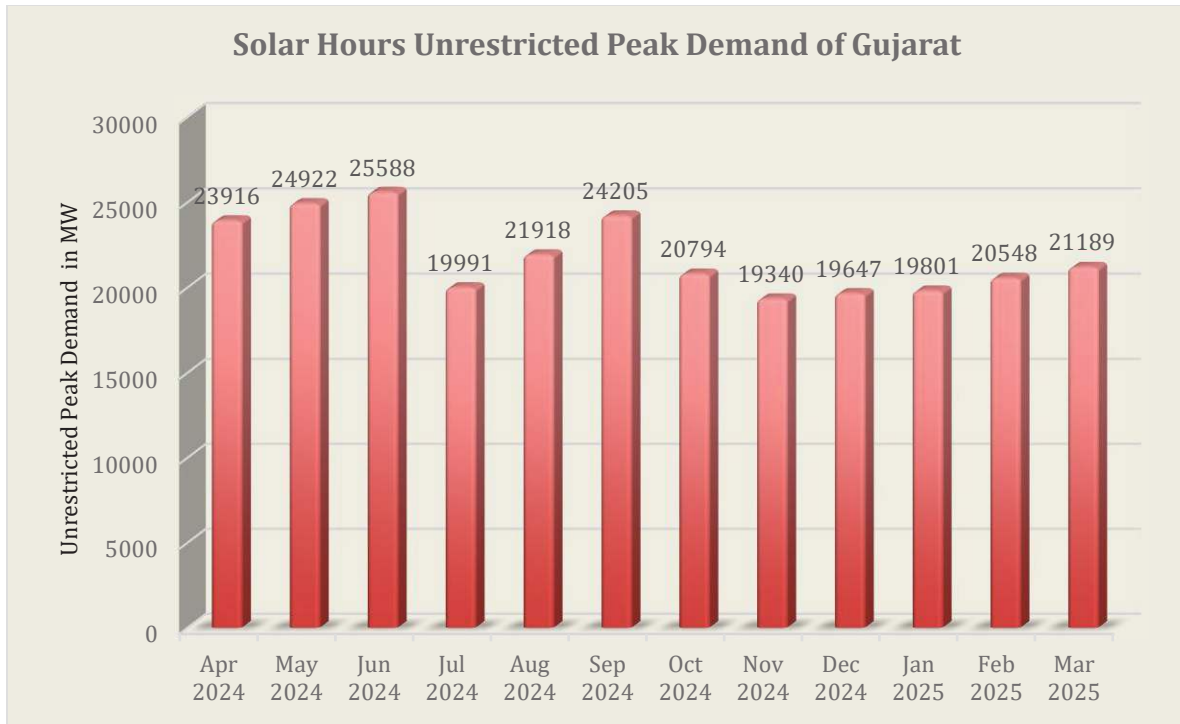


Figure-2.5

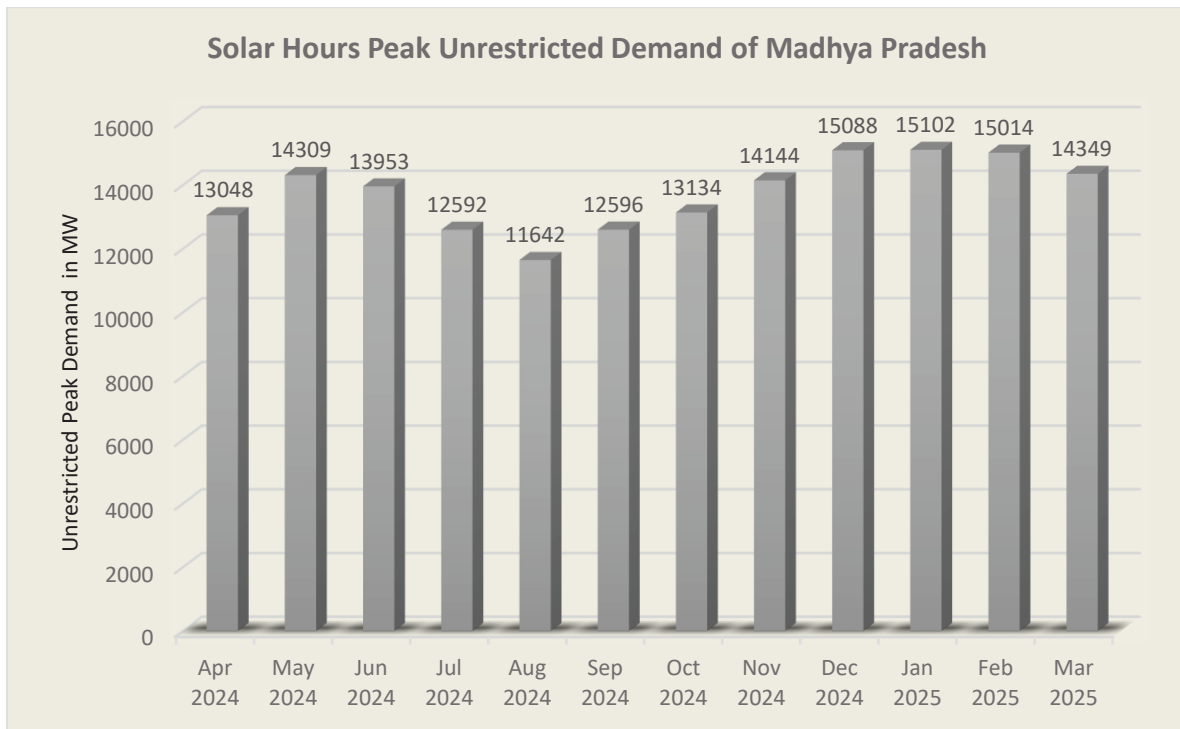


Figure-2.6

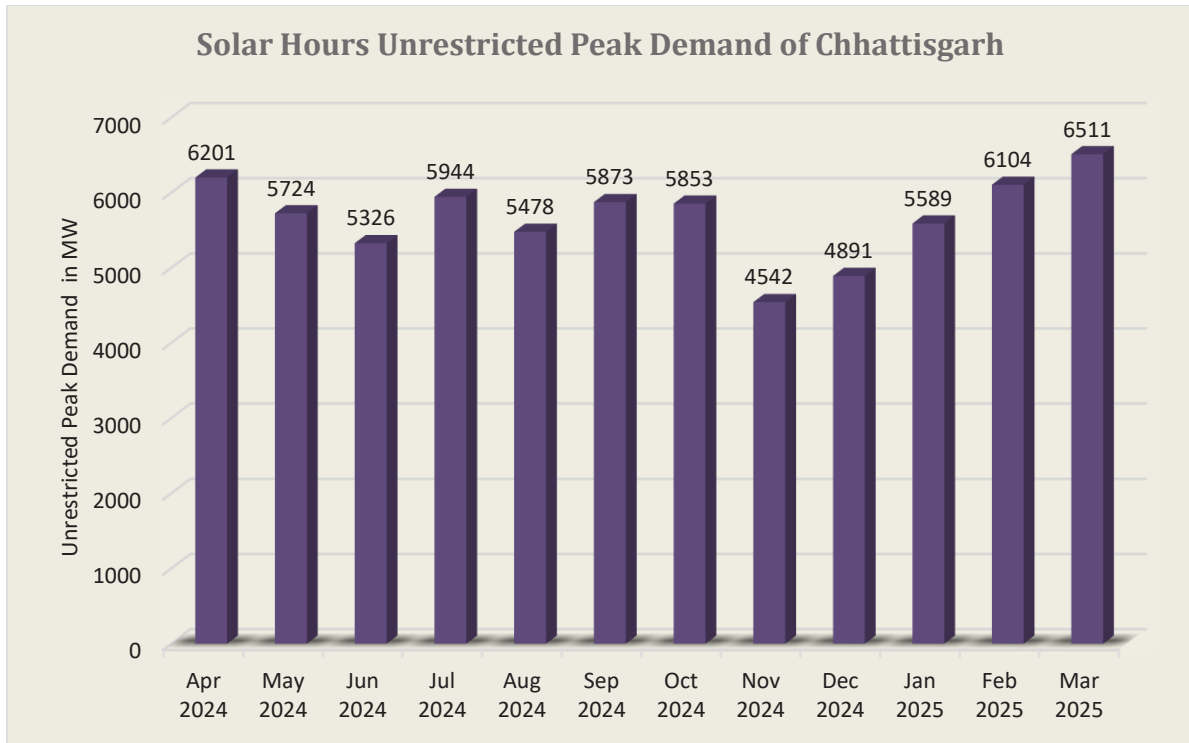


Figure-2.7

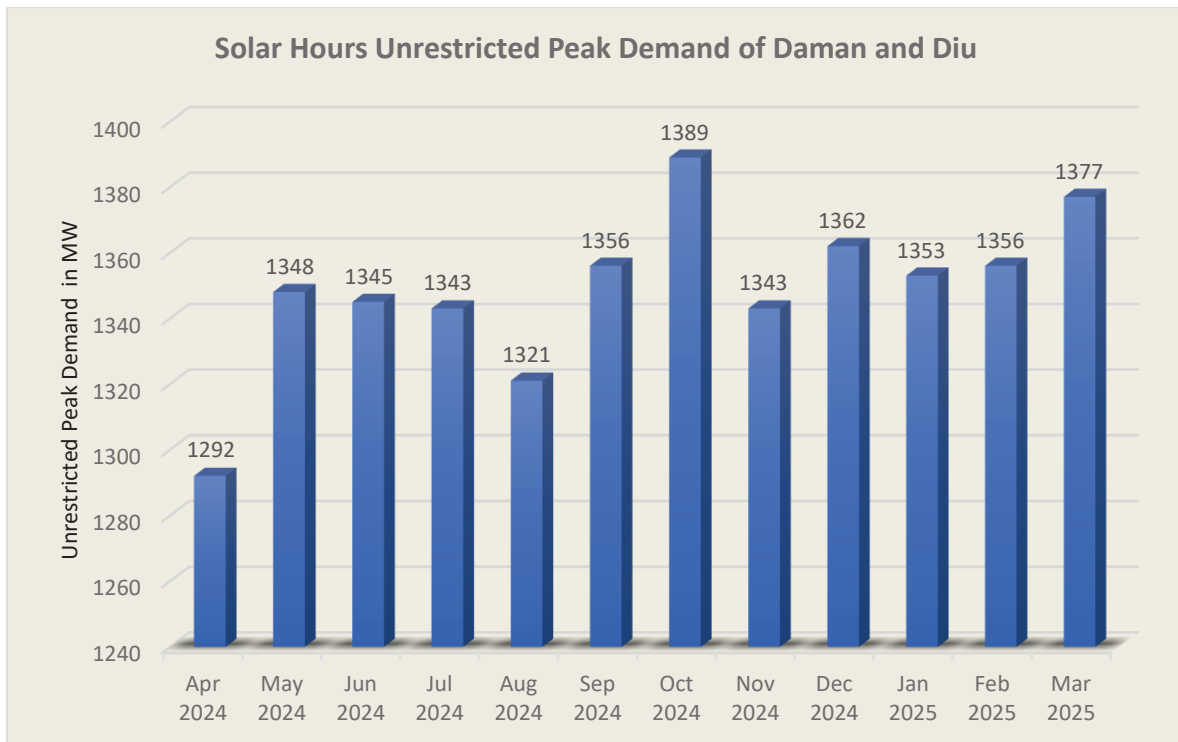


Figure-2.8

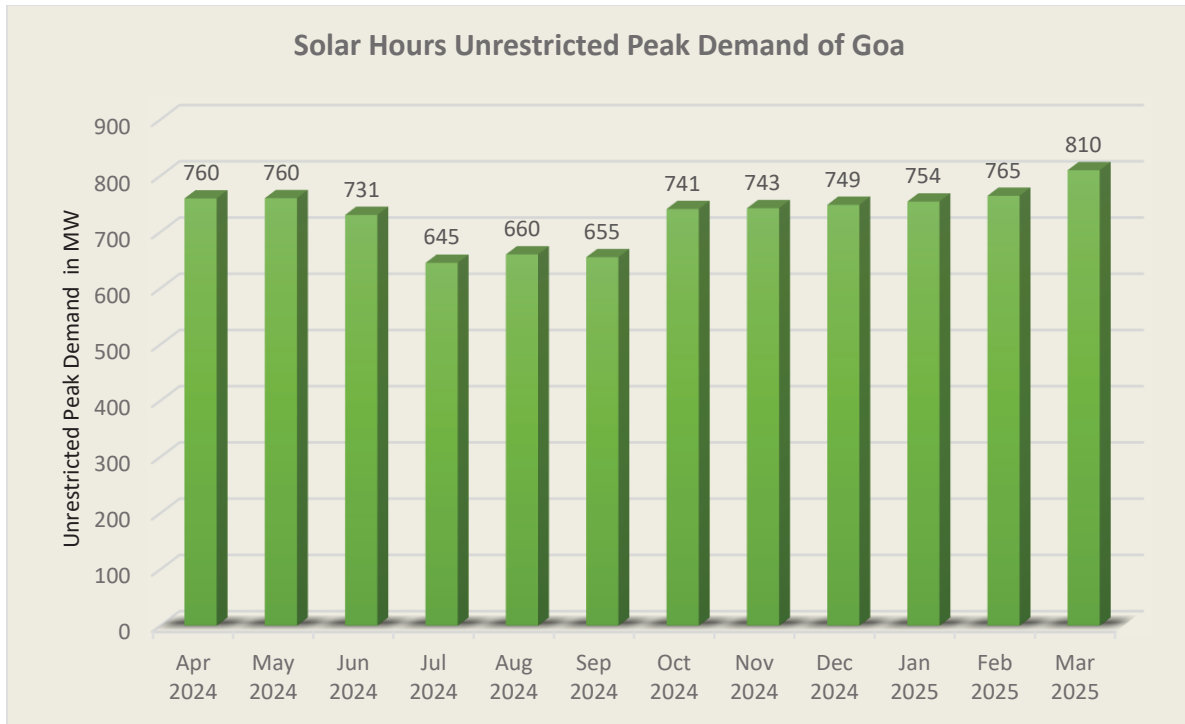


Figure-2.9

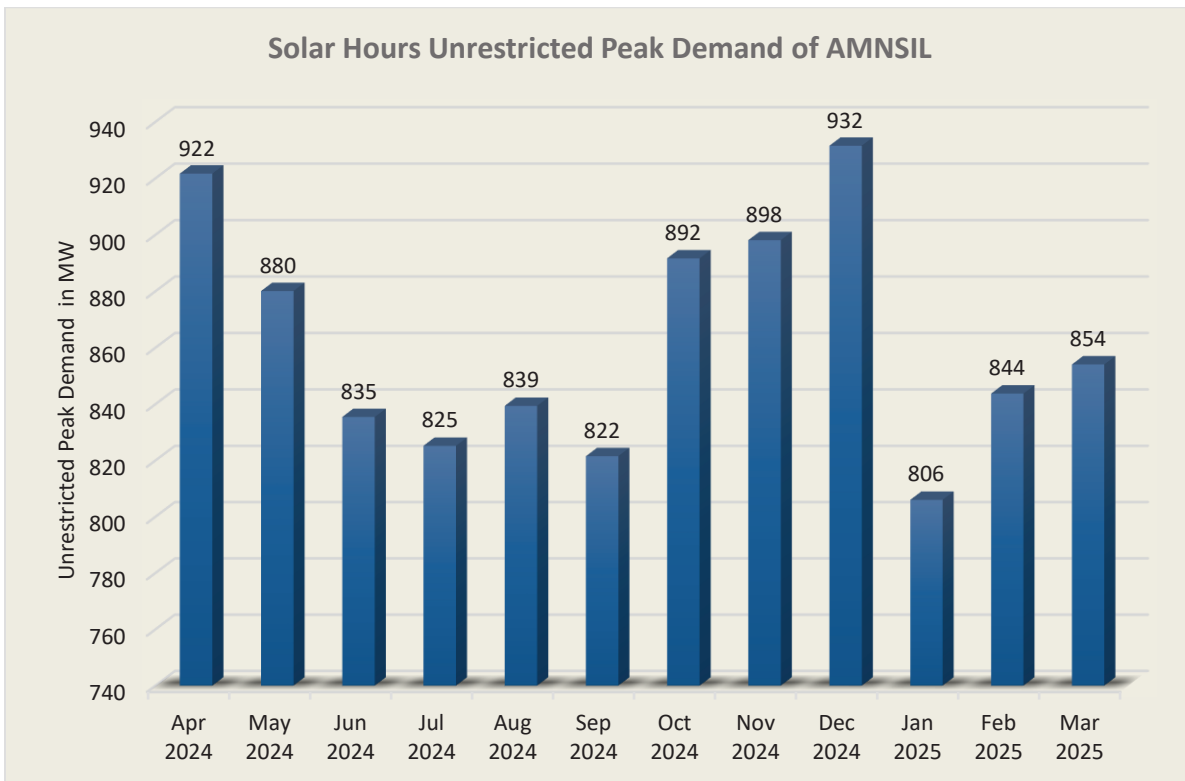


Figure-2.10

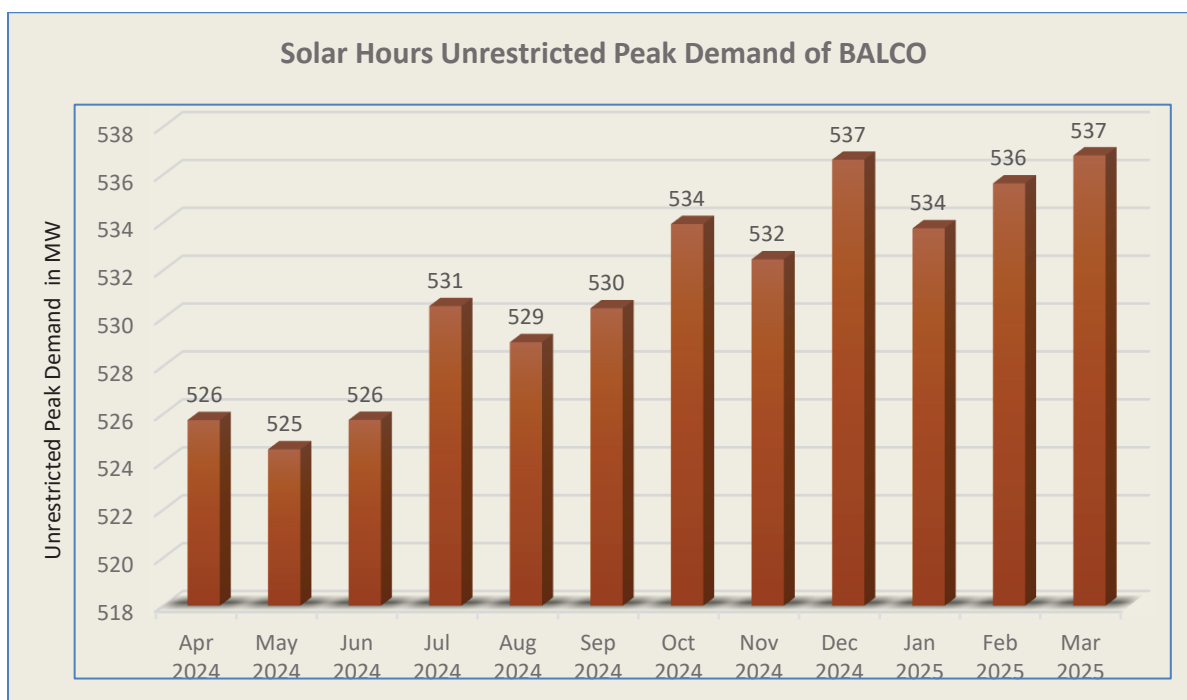


Figure-2.11

2.3.3 WR Non-Solar Hour Unrestricted Peak Demand (MW) Trend in recent year:

Western Region	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
2019-20	55278	54301	53966	51446	47569	46261	50631	49089	49803	49634	51757	53356
2020-21	42458	48471	43899	45415	44976	48643	50908	51622	52813	53744	54031	56689
2021-22	57660	53527	49832	54412	55952	51230	53857	56325	56961	56392	57930	61617
2022-23	64318	63307	61441	52991	54782	57605	57576	61138	63632	67724	67260	64762
2023-24	66082	65906	66171	57985	67008	68079	67724	67260	64762	65431	65832	66750
2024-25	70539	71451	70026	61998	63713	67506	68117	72959	77438	80585	80523	78082

Table-2.3

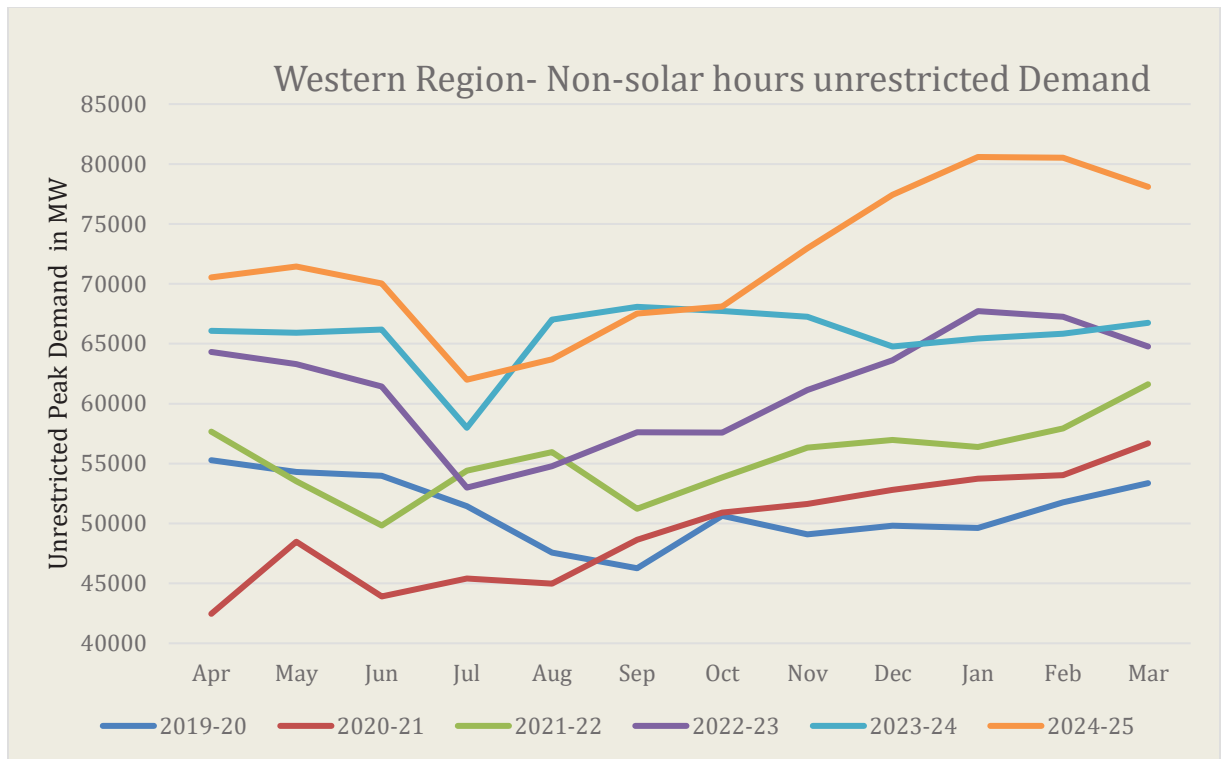


Figure-2.12

The Western Region’s non-solar-hour peak demand has increased from about 55 GW in 2019–20 to over 80 GW in 2024–25, reflecting a CAGR of 7.83%.

Non-solar-hour peaks generally occur in winter (Dec–Feb), reflecting higher evening and night demand.

2.3.4 WR Non-Solar Hour Unrestricted Peak Demand (MW) in FY 2024-25:

The Western Region recorded the highest non-solar-hour unrestricted peak demand in January 2025 (80,585 MW), closely followed by February 2025 (80,523 MW).

- i. The lowest demand occurred in July 2024 (61,998 MW), reflecting the seasonal dip during the monsoon period.
- ii. From April to June 2024, demand remained steady at around 70,000–71,000 MW, before dropping significantly in July.
- iii. A strong recovery is seen from September 2024 onwards, with demand consistently rising above 67,000 MW.
- iv. The most notable increase is observed between October and December 2024, where demand jumped from 68,117 MW to 77,438 MW.

The details of the non-solar hour peak unrestricted demand (MW) for the Western region are given in the table below:

State	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Chhattisgarh	6347	6073	5438	5893	5399	5835	5916	4566	5169	5890	6172	6508
Gujarat	21381	22455	22414	18674	19817	21802	22092	21493	22453	23929	23780	24378
Madhya Pradesh	13151	13940	13249	12176	11569	12457	13549	17815	18888	18580	18596	16622
Maharashtra	28604	27552	27337	24174	24664	25000	26023	27845	28632	29826	30151	30675
Daman & Diu	1284	1346	1353	1335	1314	1356	1390	1337	1355	1343	1352	1371
Goa	803	803	799	696	690	718	701	696	684	683	711	784
AMNSIL	909	911	850	858	899	832	907	905	892	781	825	851
BALCO	524	524	525	529	559	530	534	533	537	535	536	538
Western Region	70539	71451	70026	61998	63713	67506	68117	72959	77438	80585	80523	78082

Table-2.4

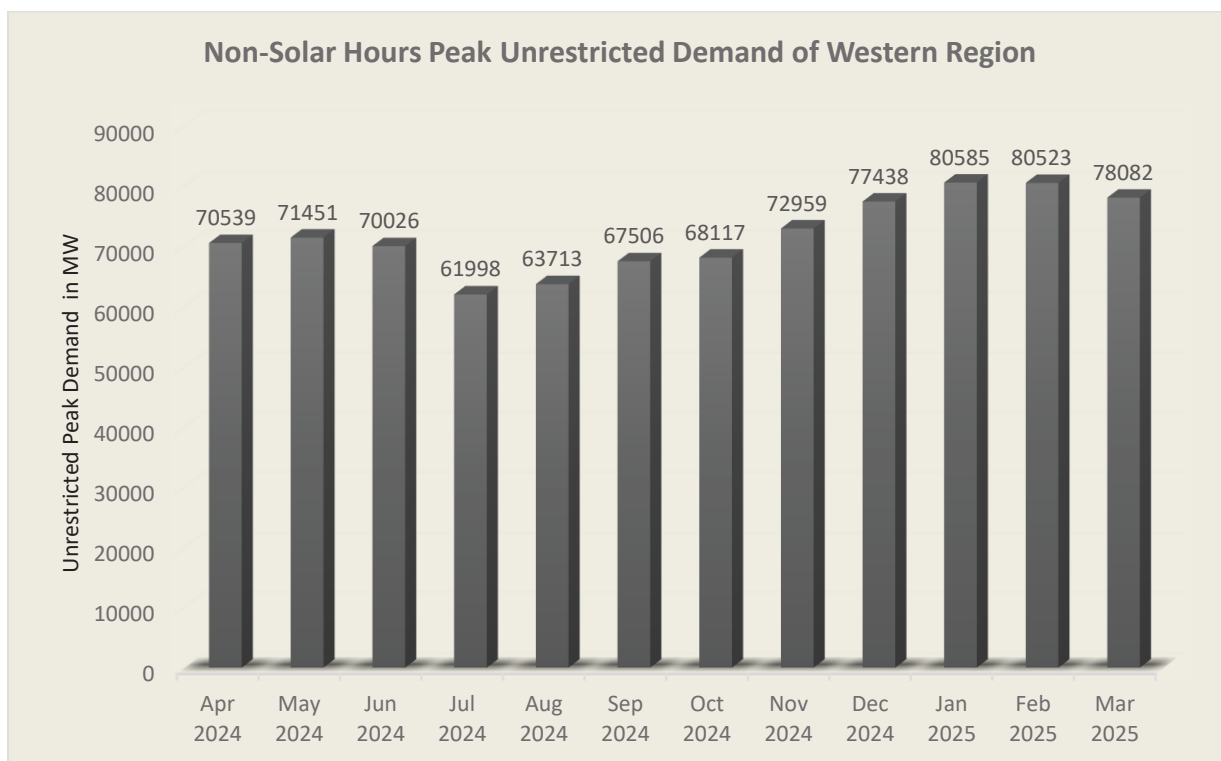


Figure- 2.13

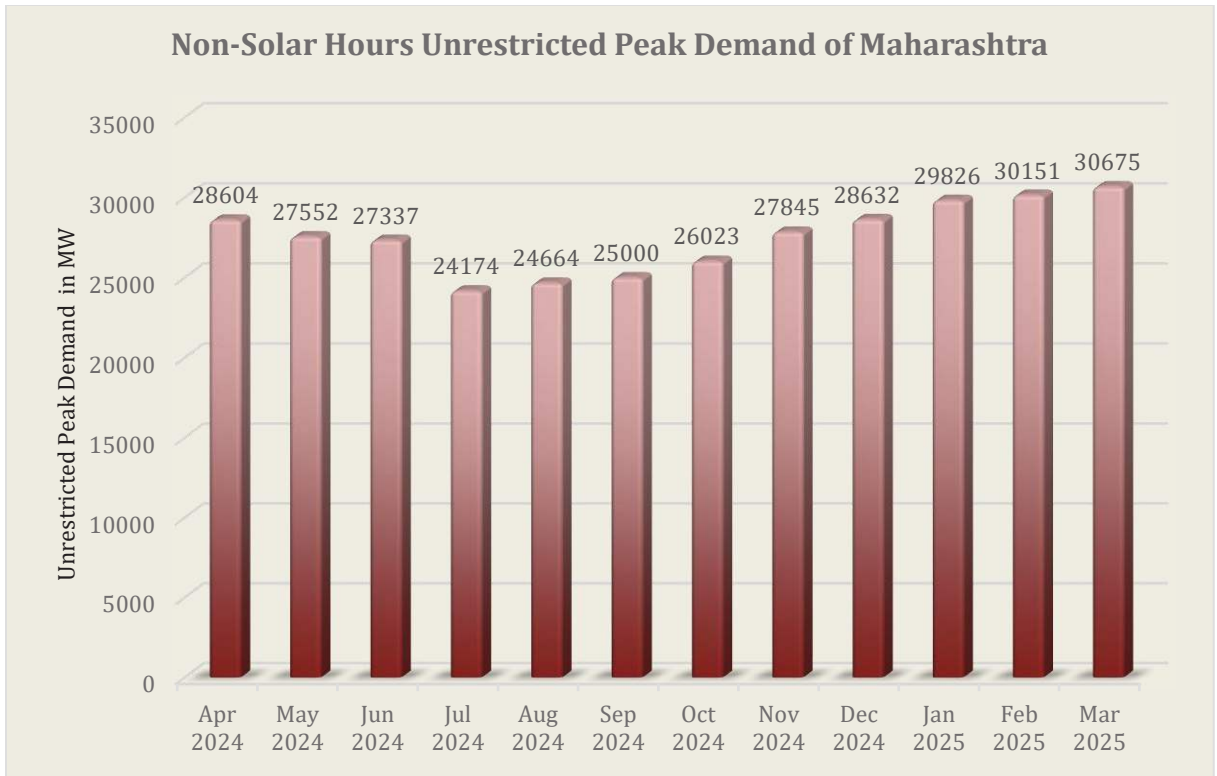


Figure- 2.14

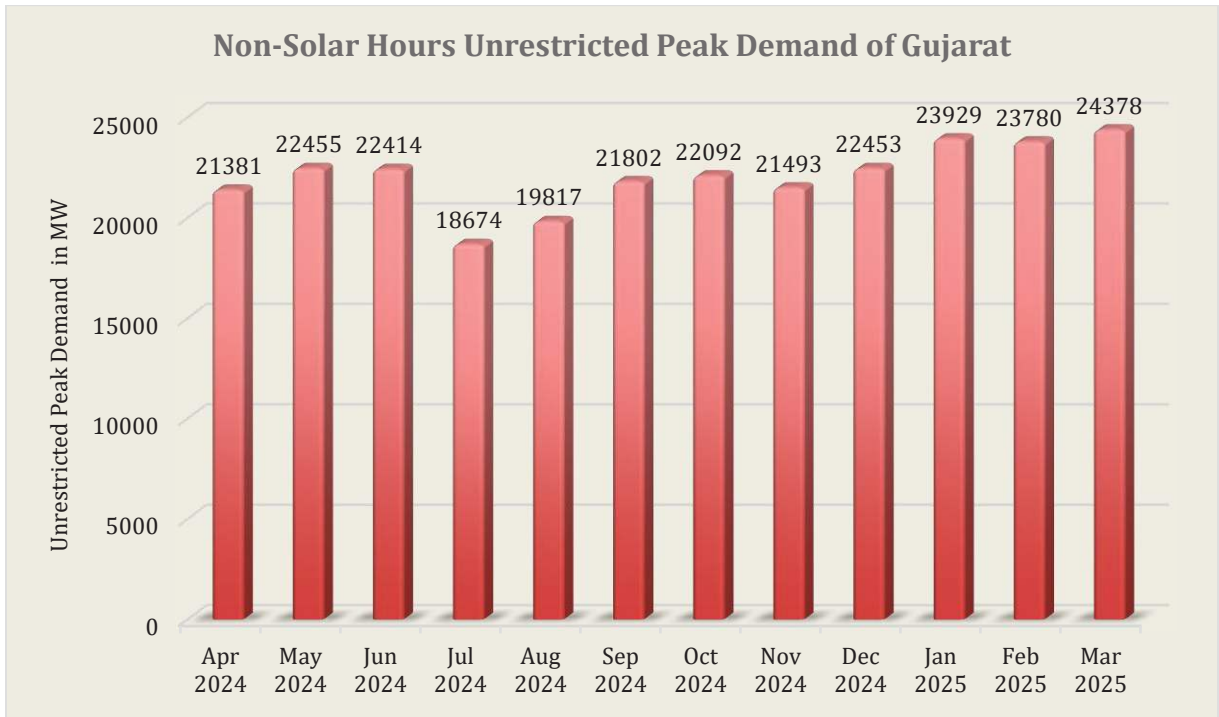


Figure-2.15

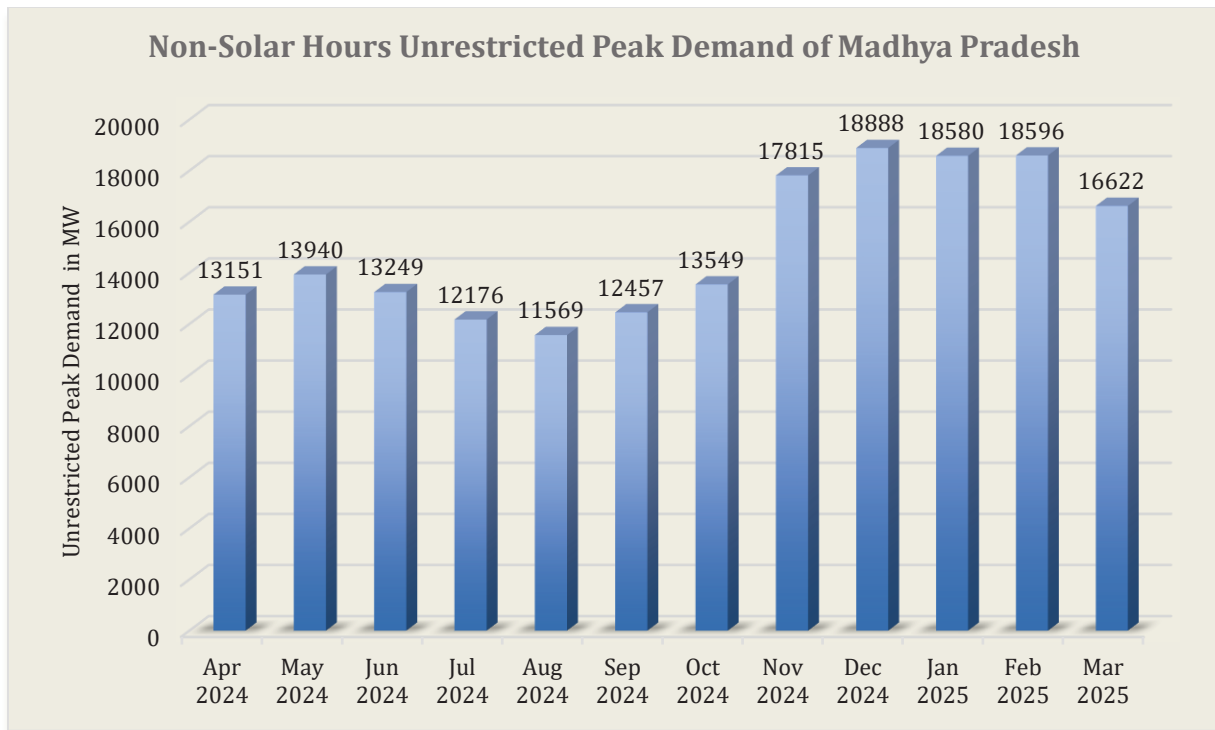


Figure-2.16

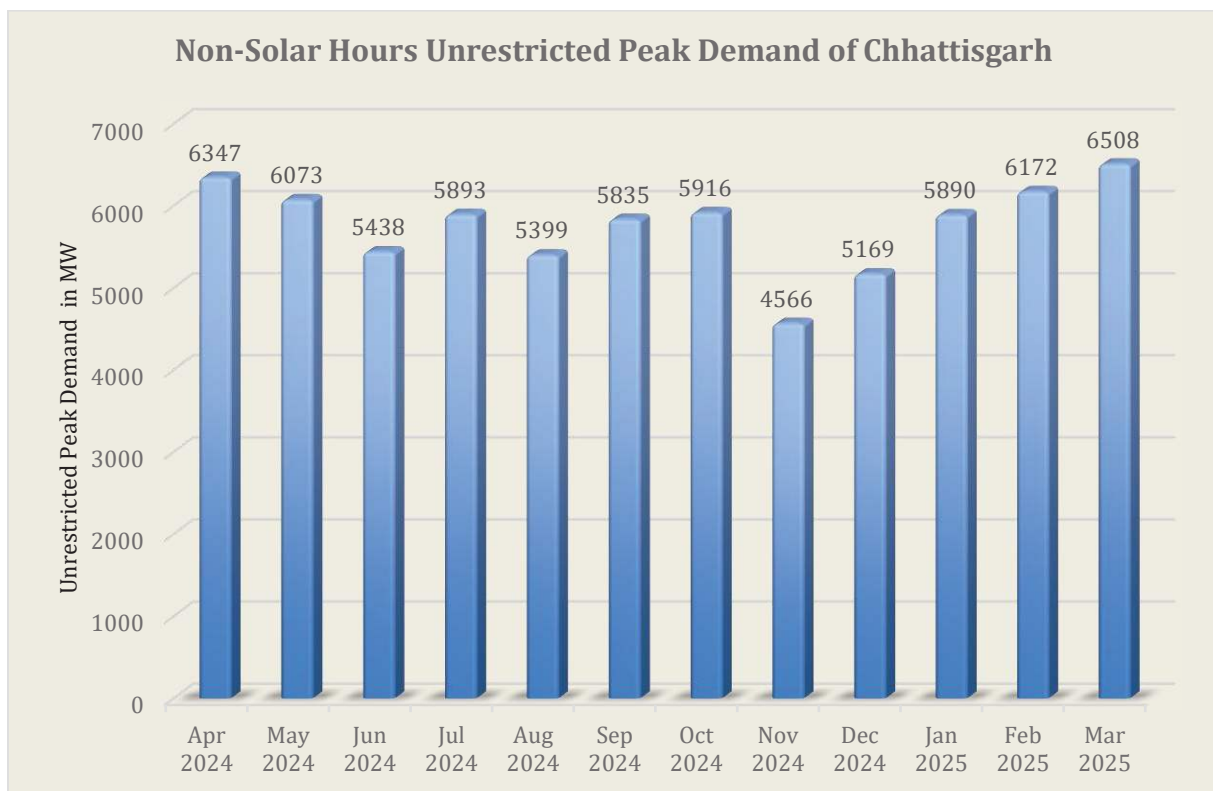


Figure-2.17

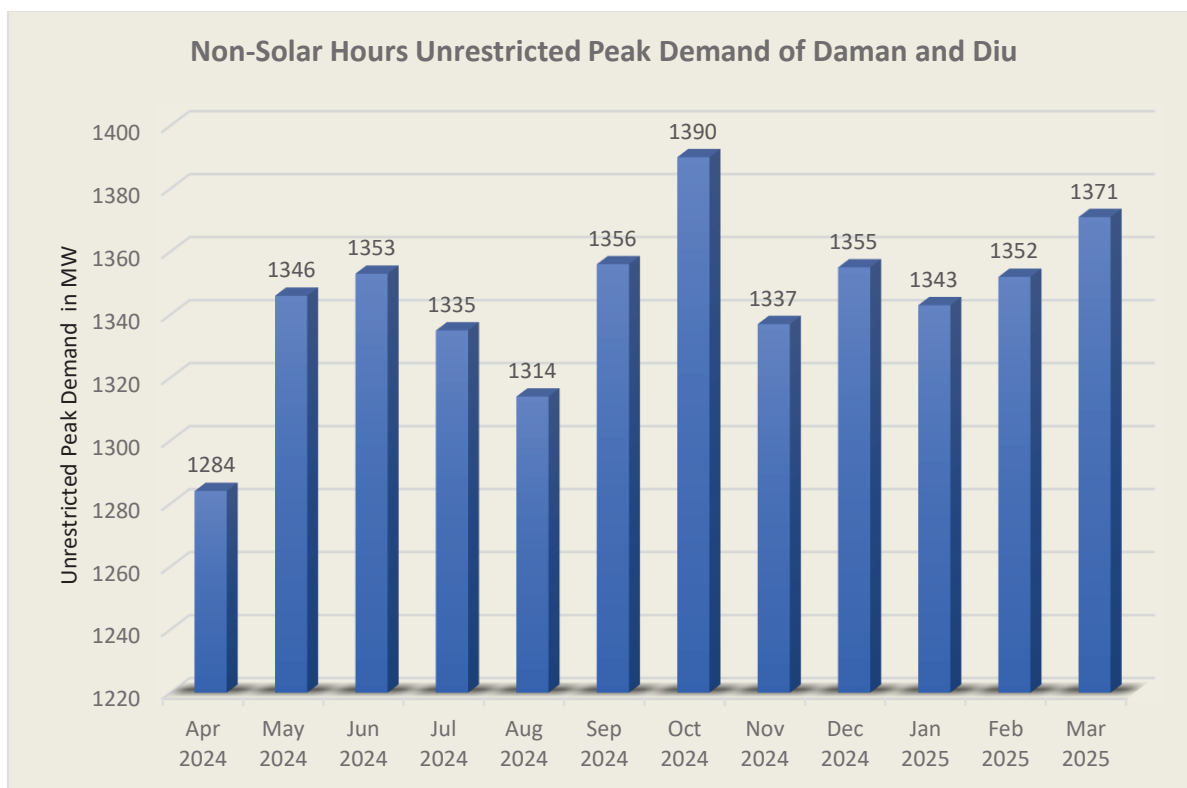


Figure-2.18

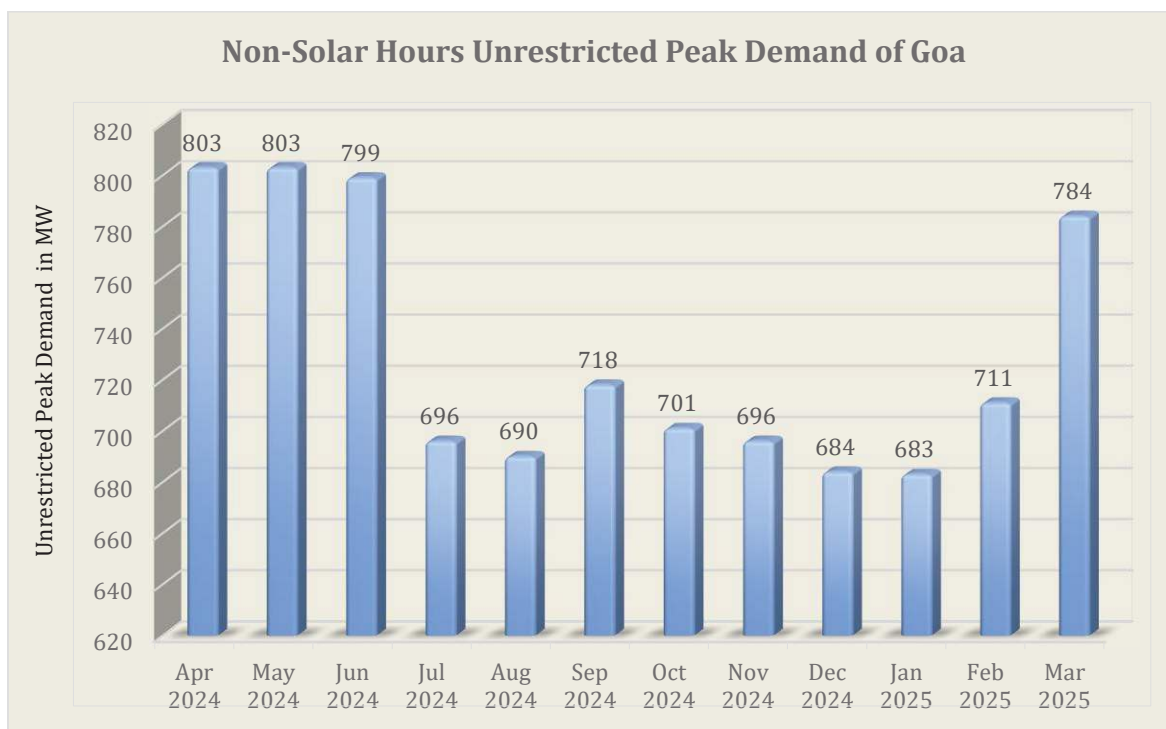


Figure-2.19

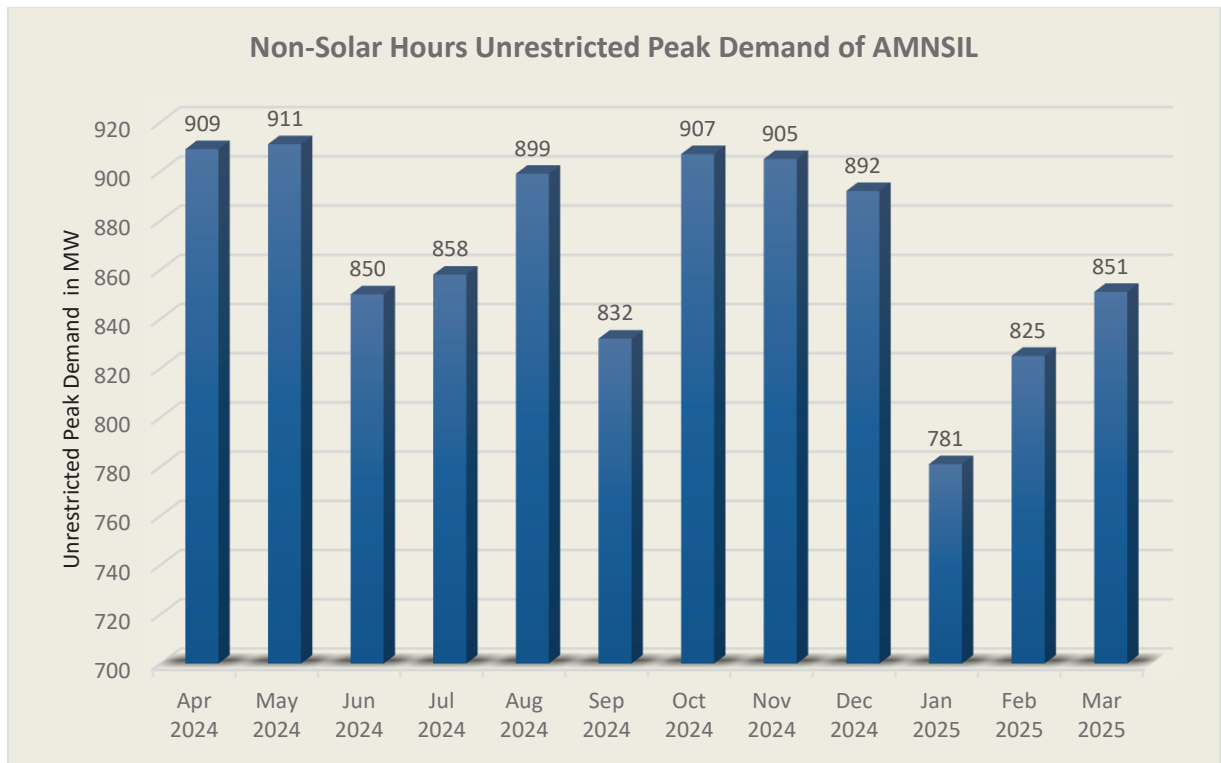


Figure-2.20

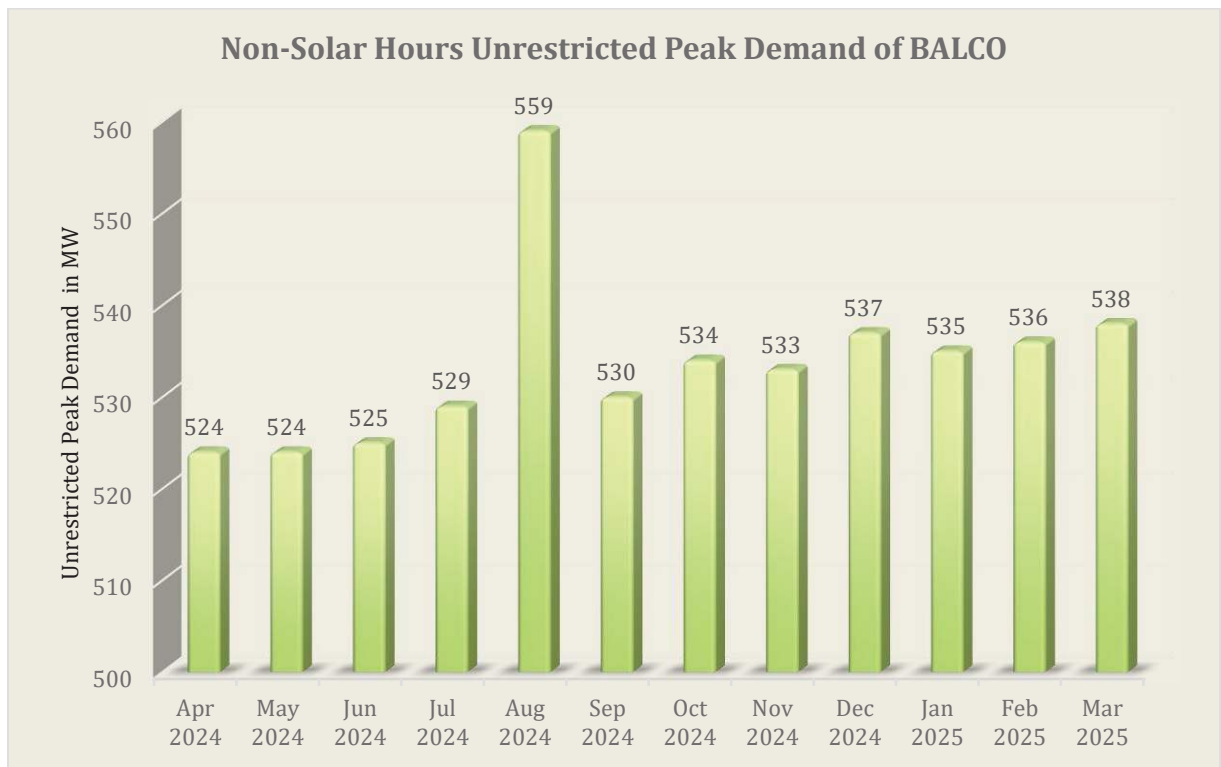


Figure-2.21

2.4 Energy

2.4.1 Recent Years Energy Trend in the WR

In the year 2024-25, total energy requirement met of Western region was 538.735 BUs against the requirement of 538.965 BUs. The details of the energy requirement met over a past decade are provided in the table below:

Year	Energy Requirement Met (BU)
2015-16	355
2016-17	360
2017-18	379
2018-19	410
2019-20	404
2020-21	405
2021-22	446
2022-23	484
2023-24	516
2024-25	539

Table-2.5

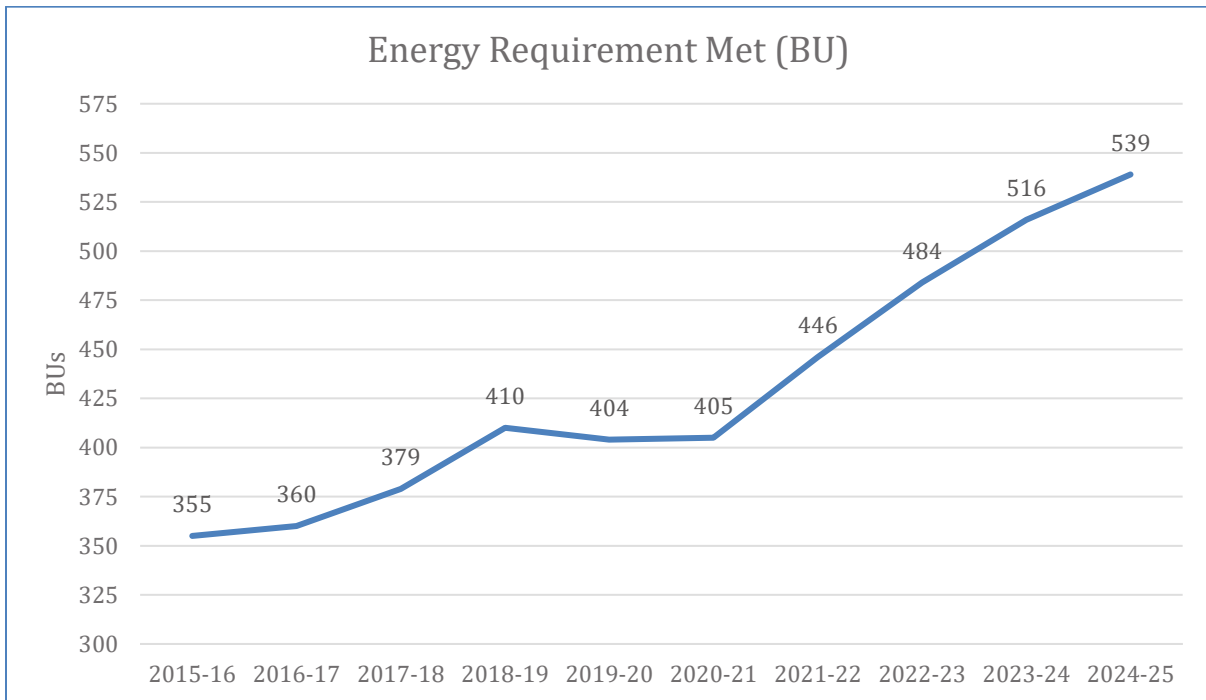


Figure-2.22

2.4.2 Energy Requirement Met for the FY 2024-25

State	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Chhattisgarh	3976	3679	3469	3604	3300	3545	3852	2712	3045	3511	3701	4392
Gujarat	14015	14990	14324	12373	11825	12412	13185	11809	12701	12839	12274	13980
Madhya Pradesh	7998	9049	7916	7676	7221	7293	8024	9411	10013	10055	9700	9054
Maharashtra	18526	18845	16626	15511	15636	15419	16871	16708	17572	18397	17596	20400
DNHDD	864	922	907	922	896	902	938	869	928	922	848	924
Goa	479	506	428	409	427	412	455	433	444	444	424	504
AMNSIL	571	563	508	532	564	493	575	564	548	518	490	534
BALCO	374	387	375	390	389	378	392	379	392	393	356	395
RIL Jamnagar	0	0	0	0	0	0	0	0	36	94	126	181
Western Region	46804	48943	44553	41418	40260	40853	44292	42884	45679	47173	45513	50364

Table 2.6

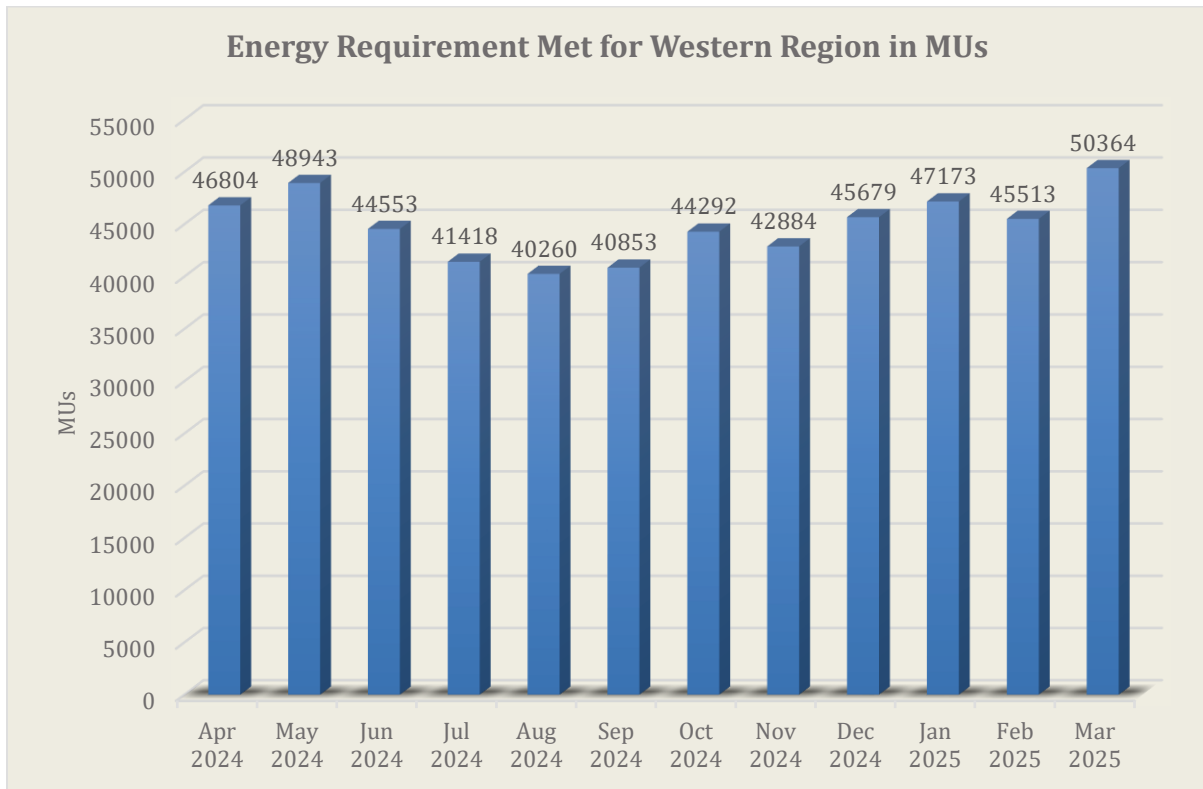


Figure-2.23

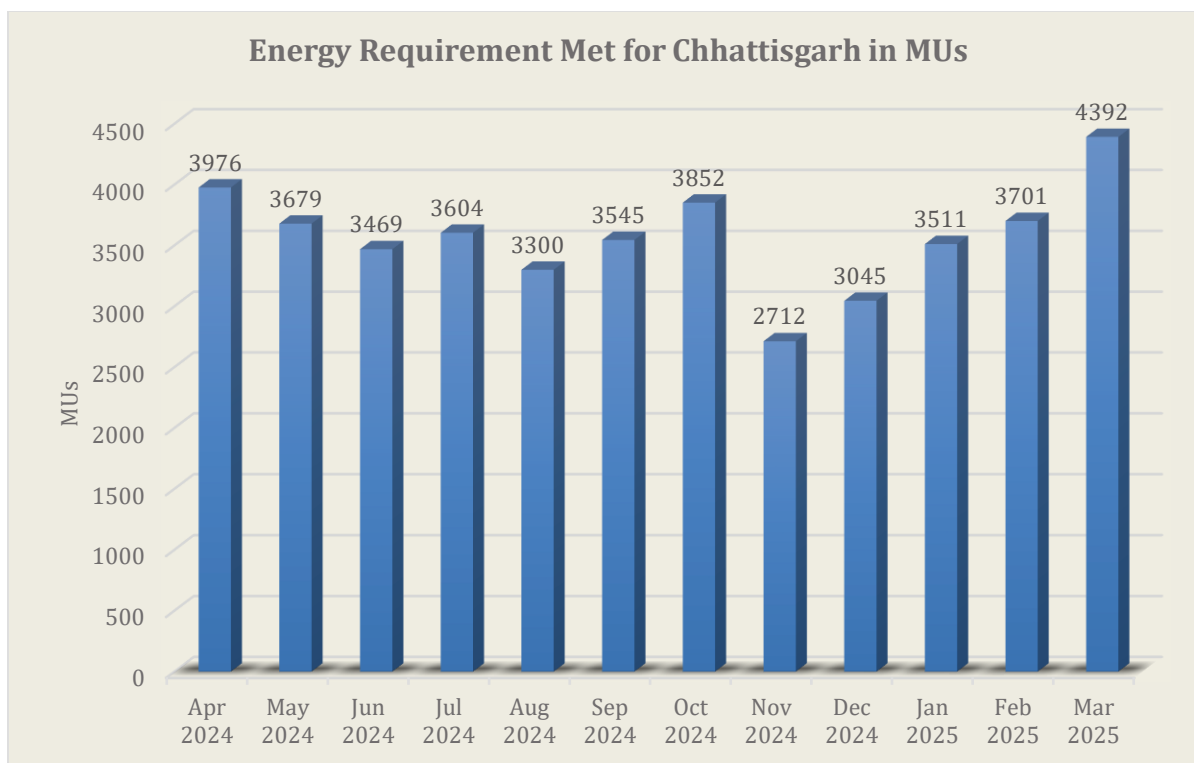


Figure-2.24

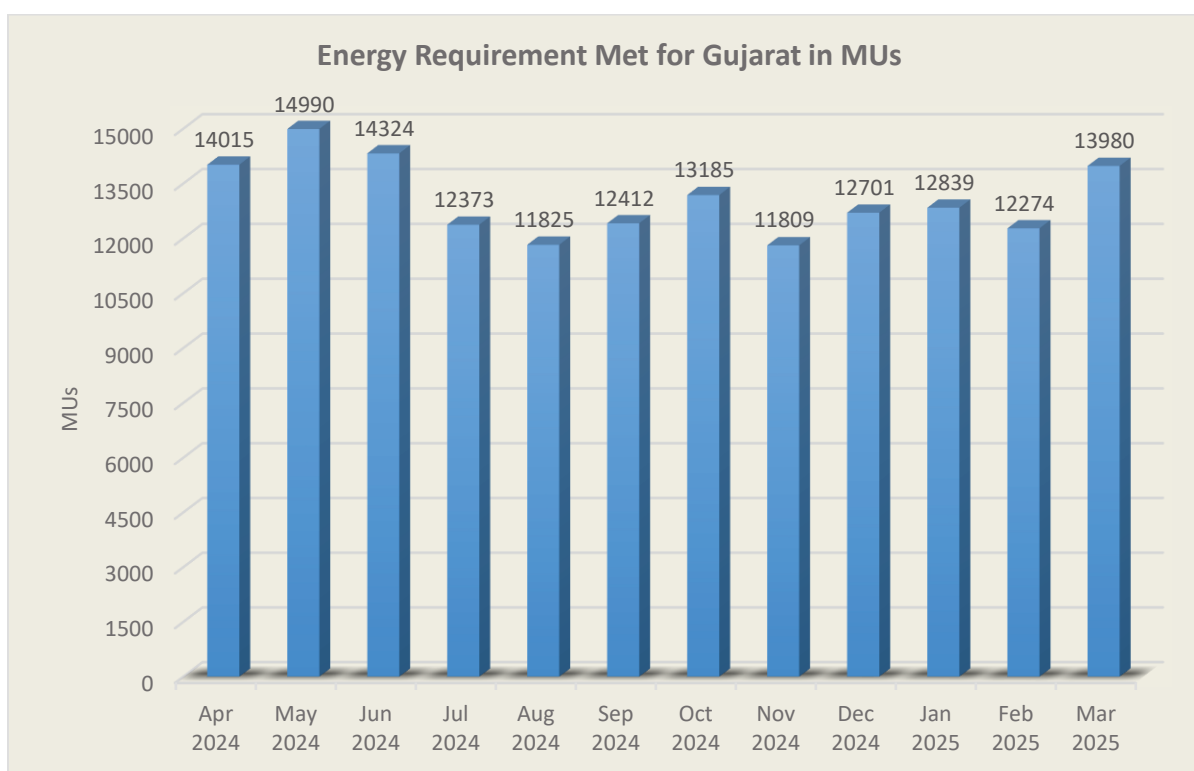


Figure-2.25

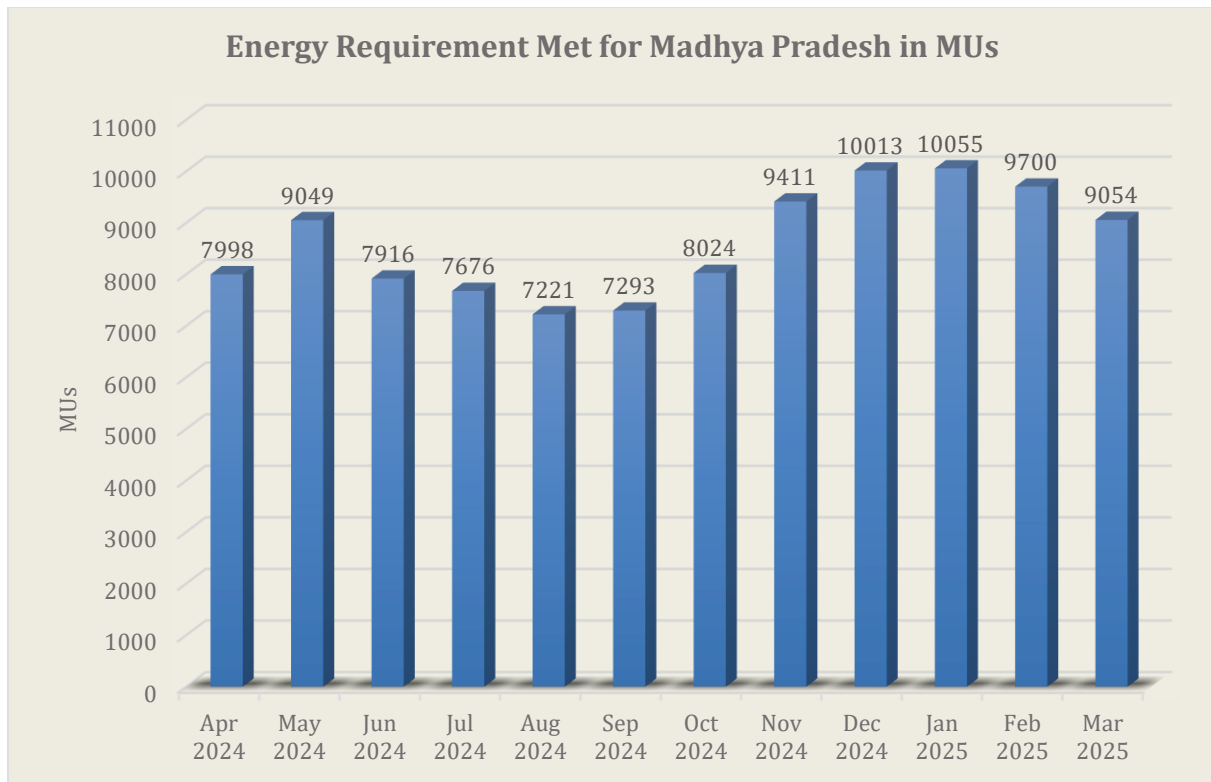


Figure-2.26

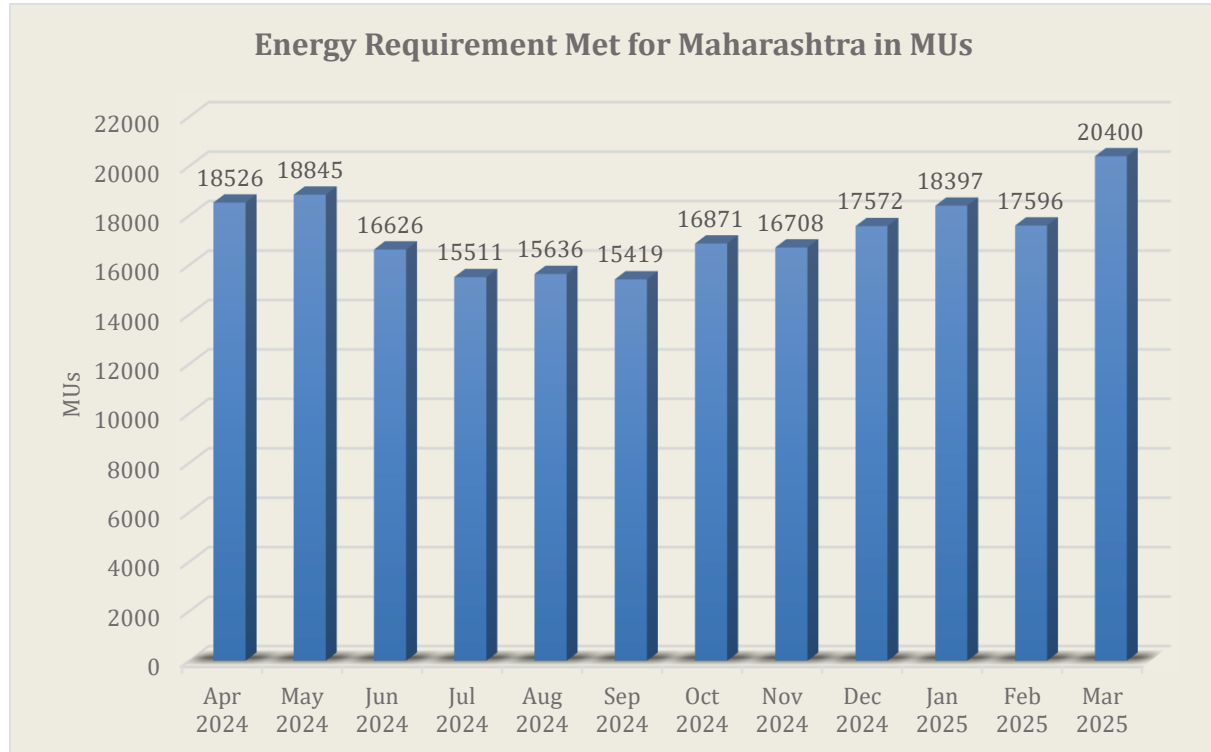


Figure-2.27

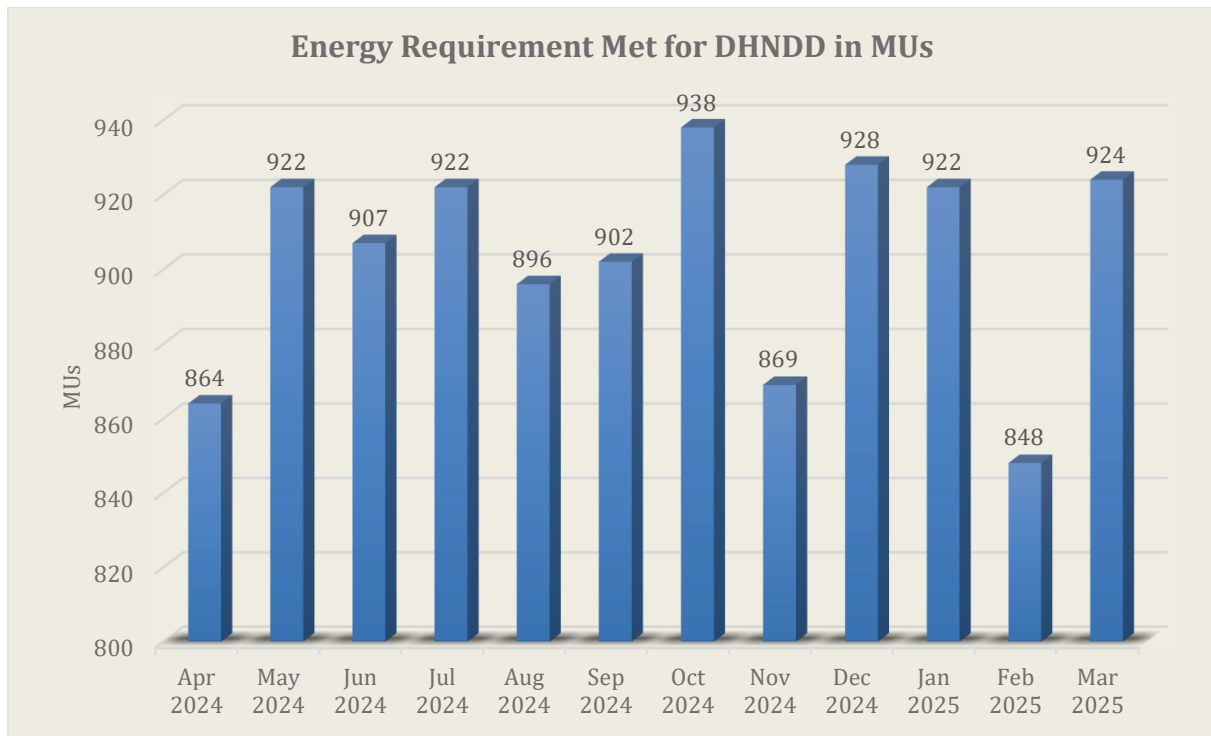


Figure-2.28

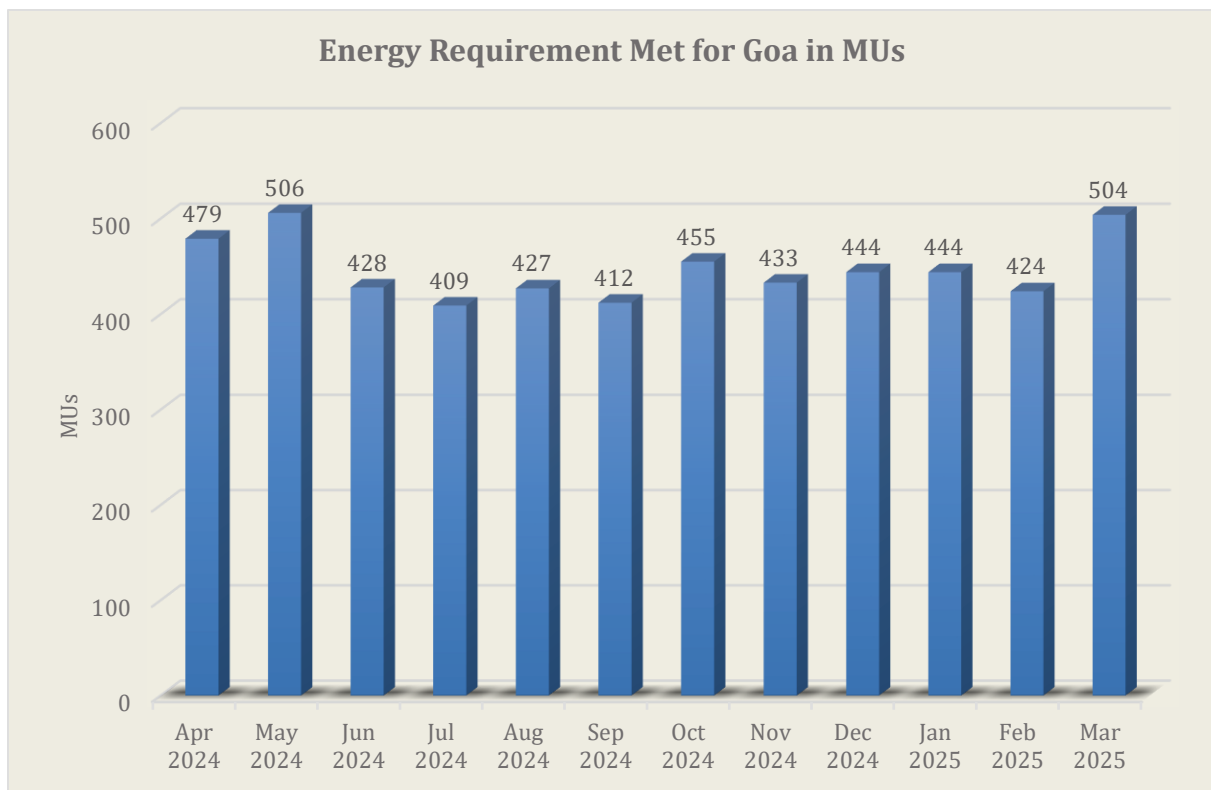


Figure-2.29

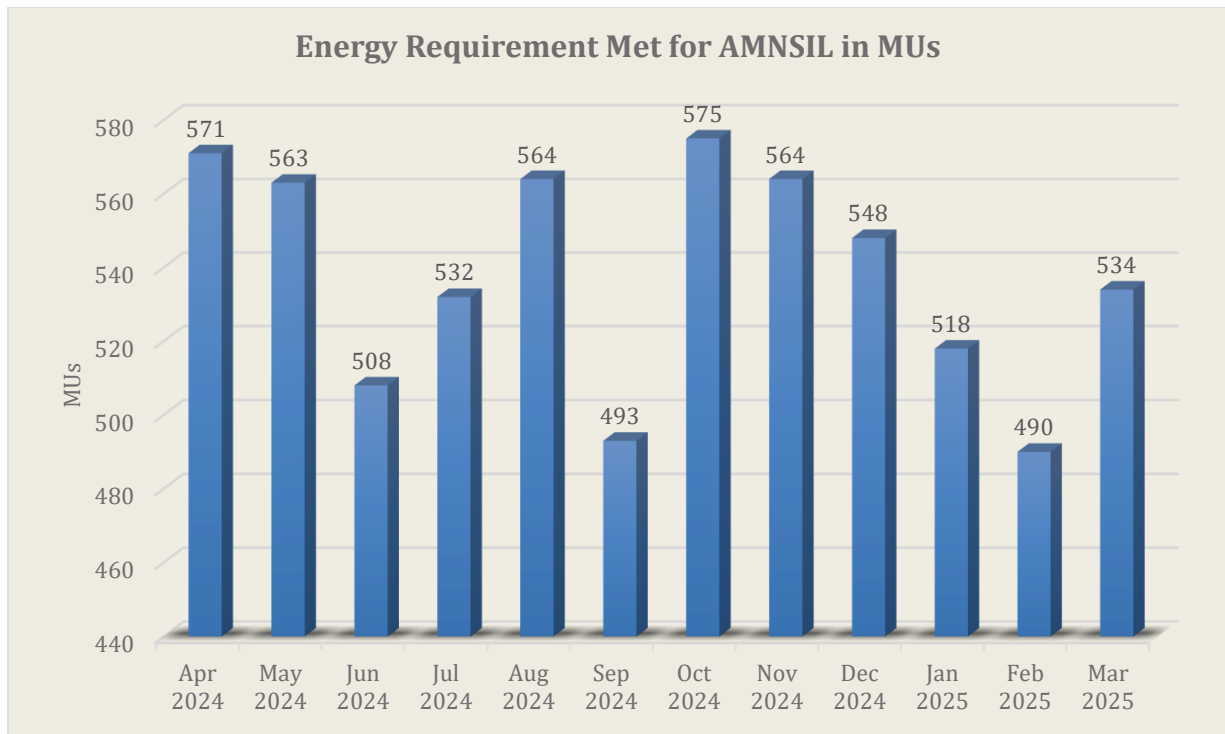


Figure-2.30

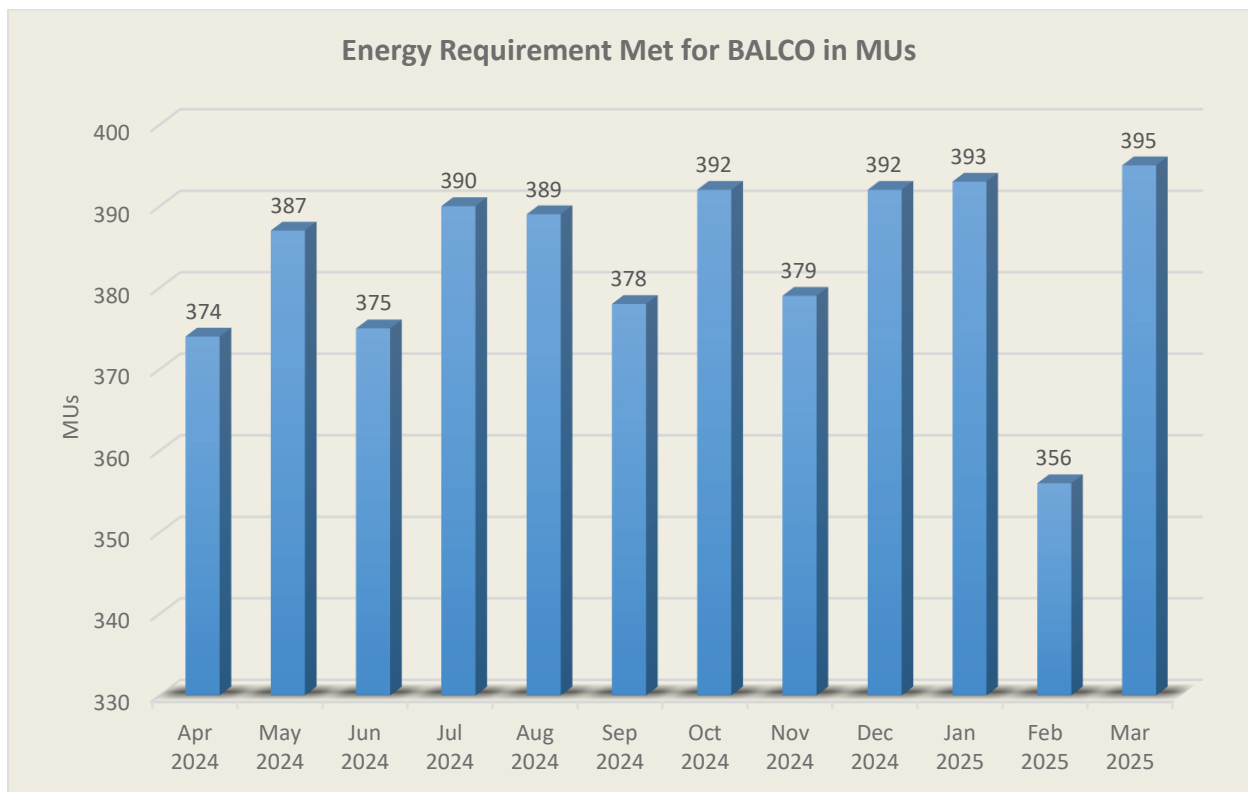


Figure-2.31

2.4.3 Energy Requirement vs Requirement Met

FY 2024-25 witnessed improved supply reliability compared to 2023-24, with shortages consistently contained below 0.1% in most months. Energy requirement in 2024-25 showed steady growth over 2023-24 across all months.

- Maximum Energy Requirement was observed in March 2025 (50,377 MU).
- Minor shortfalls were observed in selected months but they were marginal compared to demand levels. The highest shortage in 2024-25 occurred in September (47 MU) and August (44 MU).

Month	Requirement (MUs)		Requirement Met (MUs)		Shortage (MUs)		Shortage (in %)	
	2024-25	2023-24	2024-25	2023-24	2024-25	2023-24	2024-25	2023-24
April	46828	42649	46804	42640	24	9	0.05	0.02
May	48947	43806	48943	43792	4	14	0.01	0.03
June	44562	41952	44553	41927	9	25	0.02	0.06
July	41448	39332	41418	39322	30	10	0.07	0.02
Aug	40304	43377	40260	43250	44	128	0.11	0.3
Sep	40900	41415	40853	41321	47	94	0.12	0.23
Oct	44294	45874	44292	45859	2	15	0	0.03
Nov	42886	42058	42884	42058	2	0	0	0
Dec	45692	42077	45679	42076	13	1	0.03	0
Jan	47192	44895	47172	44847	20	48	0.04	0.11
Feb	45535	43189	45513	43141	22	48	0.05	0.11
Mar	50377	45799	50364	45799	13	0	0.03	0

Table-2.7

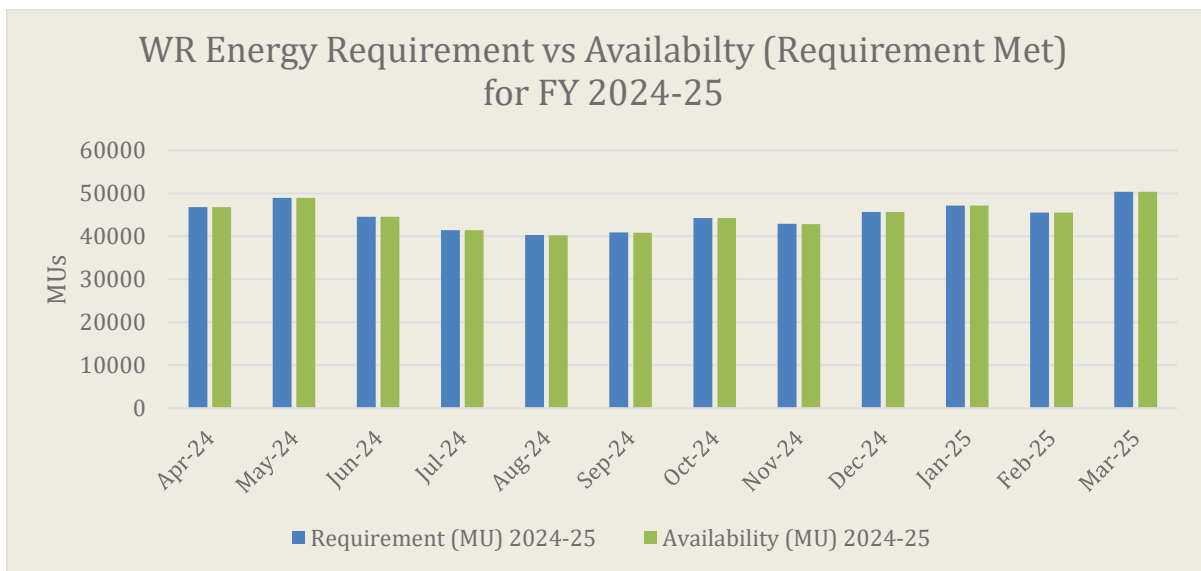


Figure-2.32

2.5 System Frequency

Frequency Particulars during the FY 2024-25:

Frequency Range	Frequency (%)
<49.9	5.15
49.9-50.05	77.93
>50.05	16.92

Table-2.8

The system operated in a stable frequency regime throughout the year with no significant excursions beyond the standard permissible limits.

- The maximum instantaneous frequency was 50.67 Hz, recorded on 17th June 2024 at 13:53:40 hrs.
- The minimum instantaneous frequency was 49.46 Hz, recorded on 18th September 2024 at 18:25:50 hrs.
- The average frequency for all months was maintained very close to the nominal value of 50.00 Hz, indicating effective system balancing between demand and generation.
- The Monthly FDI values remained low throughout the year, ranging between 0.19 and 0.25, reflecting improved grid discipline and adherence to frequency control measures.
- The highest FDI was observed in February 2025 (0.25), whereas the lowest was in November 2024 (0.19).

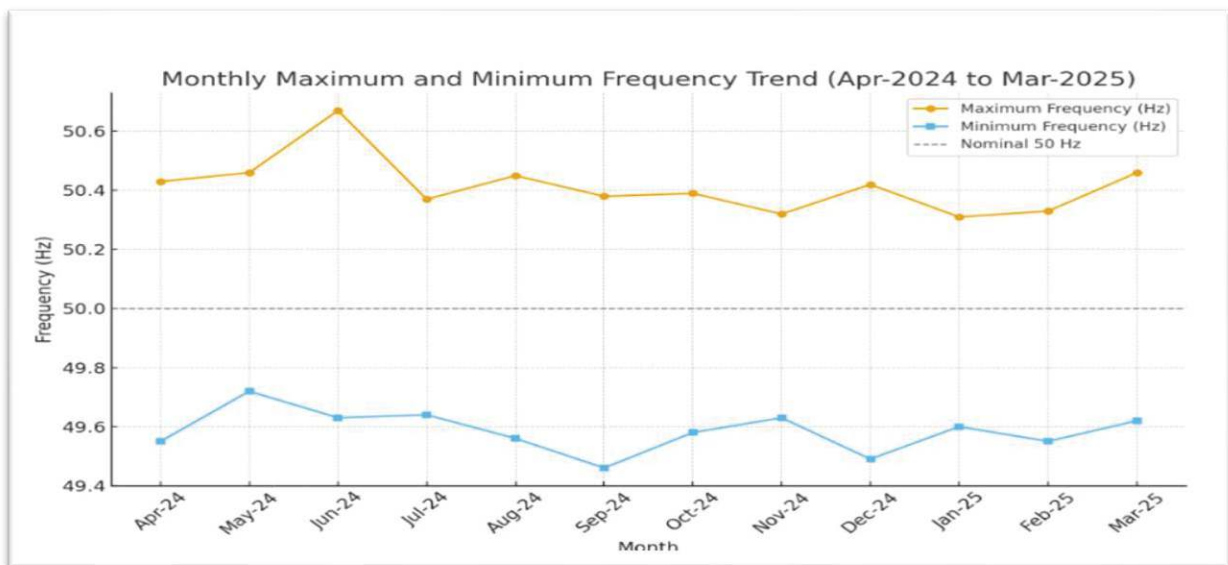


Figure-2.33

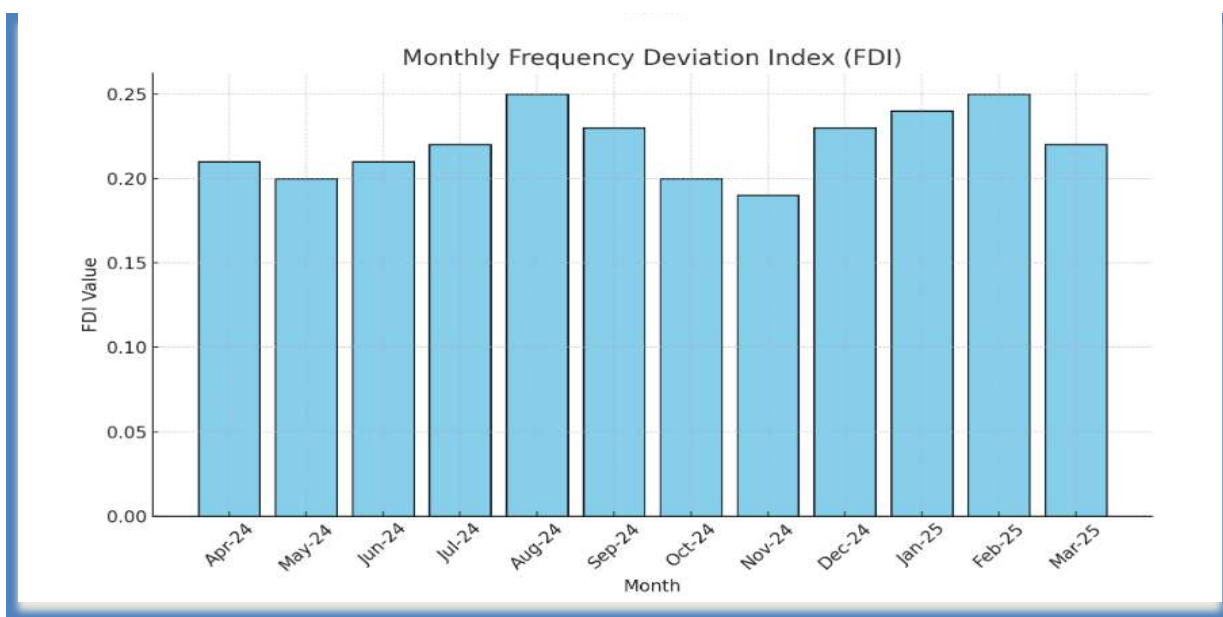


Figure-2.34

The month wise details of the frequency particulars are placed at **Annexure-2.5.1**.

2.6 Voltage Profile

During the year 2024-25 the voltage profile was by and large satisfactory. High voltages were observed in some areas during off-peak hours in low load months. The details of the voltage profile at 765 kV and 400 kV substations in WR during the FY 2024-25 is given in the table below:

400 kV Substations						
Sr No.	Station Name	Voltage (in kV)		Voltage (in % of Time)		
		Max Voltage	Min Voltage	<380 kV	380 kV-420 kV	>420 kV
1	Bhopal-MP	428	381	0	95.4	4.6
2	Khandwa	424	392	0	99.18	0.82
3	Itarsi	418	387	0	100	0
4	Damoh	424	387	0	99.75	0.25
5	Nagda	425	381	0	98.03	1.97
6	Indore-MP	423	382	0	99.78	0.22
7	Gwalior	417	382	0	100	0
8	Raipur	423	387	0	99.5	0.5
9	Raigarh	429	382	0	74.33	25.67
10	Bhilai	423	386	0	99.49	0.51

11	Wardha	430	381	0	68.53	31.47
12	Dhule-MS	421	385	0	99.78	0.22
13	Parli-M	424	380	0	99.09	0.91
14	Boisar	433	387	0	82.96	17.04
15	Kalwa	429	378	0.01	92.19	7.8
16	Karad	430	378	0	77.13	22.87
17	Asoj	425	379	0	99.13	0.87
18	Dehgam	431	378	0	85.74	14.26
19	Kasor	430	378	0	91.51	8.49
20	Amreli	439	378	0	36.16	63.84
21	Vapi	425	378	0.01	99.7	0.29
22	Mapusa	430	378	0.03	90.17	9.8
23	Kala	425	378	0.01	99.72	0.27
24	Magarawada	429	378	0	97.09	2.91
25	Hazira	430	378	0.04	99.39	0.57

Table-2.9

765 kV Substations						
Sr No.	Station Name	Voltage (in kV)		Voltage (in % of Time)		
		Max Voltage	Min Voltage	<728 kV	728 kV-800 kV	>800 kV
1	Sipat	787	748	0	100	0
2	Seoni	802	747	0	99.96	0.04
3	Wardha	808	741	0	99.68	0.32
4	Bina-PG	806	727	0	99.88	0.12
5	Indore-PG	796	741	0	100	0
6	Sasan	796	754	0	100	0
7	Satna	805	752	0	99.34	0.66
8	Tamnar	797	763	0	100	0
9	Raigarh-PS(Kotra)	799	725	0	100	0
10	Vadodora-PS	809	738	0	99.29	0.71
11	Raipur-PS(Durg)	808	760	0	99.38	0.62
12	Gwalior	808	735	0	99.68	0.32

Table-2.10

2.7 Transmission System

During 2024-25, 1911.51 Ckt. km (including 395.72 Ckt. km of 765 kV, 1181.42 Ckt. km of 400 kV and 334.37 Ckt. km of 220 kV) transmission lines were added in Western Region Transmission System. The growth of 765 kV, 400 kV and 220 kV transmission line in ckt. km during the period 2014-15 to 2024-25 is shown below:

F. Y.	765 kV	400 kV	220 kV
2014-15	12896	47523	45344
2015-16	17707	52887	44347
2016-17	18812	54073	50899
2017-18	22631	67886	52978
2018-19	22631	68806	54461
2019-20	25160	68341	55119
2020-21	25160	69261	55623
2021-22	25922	70365	56005
2022-23	27963	71568	56198
2023-24	28845	74328	56574
2024-25	29241	75509	56908

Table-2.11 - Transmission line Ckt km details

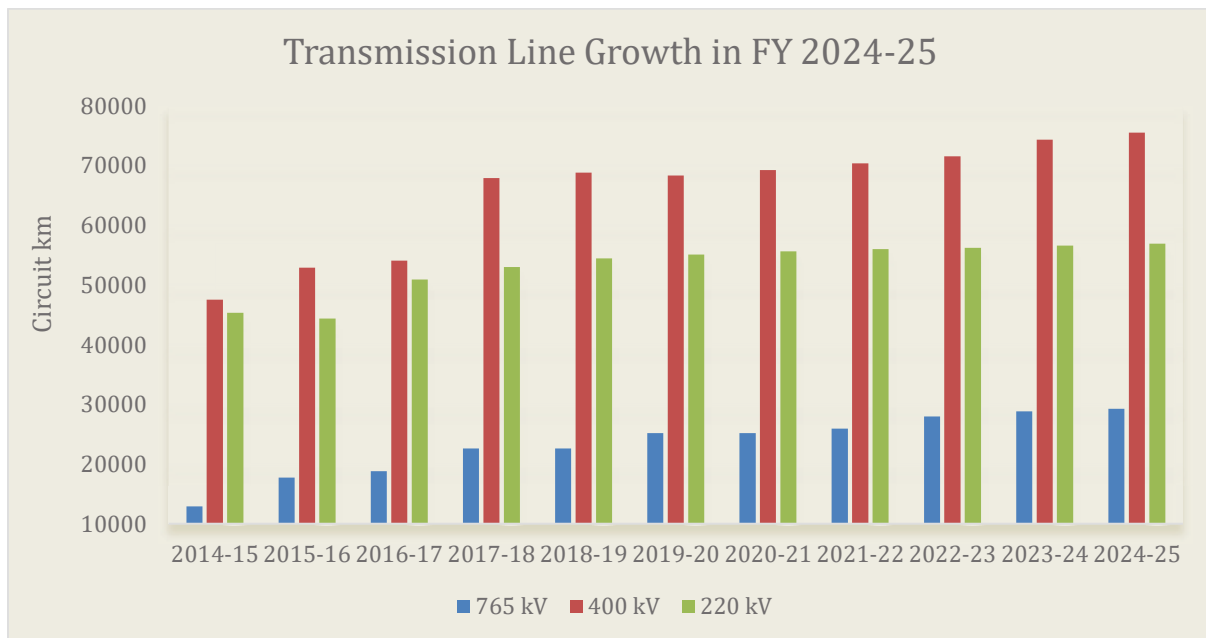


Figure-2.35

2.8 Energy Exchange

The details of Month wise Schedule, Drawal, Under Drawal/Over Drawal and UI Charges in Respect of WR Constituents for the year 2024-2025 are given in **Annexure-2.8.1**.

2.9 Western Region Scheduled vs Actual Export to Other Regions (Apr-24 to Mar-25)

Month	SCH (MU)	Actual (MU)	OD/UD (MU)
Apr-24	-9,996.00	-10,118.00	-122.00
May-24	-11,402.60	-11,911.76	-509.16
Jun-24	-11,510.63	-11,794.03	-283.40
Jul-24	-9,151.74	-9,097.12	54.62
Aug-24	-8,581.70	-9,266.53	-684.83
Sep-24	-6,534.13	-6,187.65	346.48
Oct-24	-6,181.14	-5,921.10	260.04
Nov-24	-4,898.34	-4,686.98	211.36
Dec-24	-6,988.96	-7,143.38	-154.42
Jan-25	-7,599.00	-7,331.00	268.00
Feb-25	-6,611.00	-6,308.00	303.00
Mar-25	-7,193.00	-7,056.00	137.00

Table-2.12

Sign convention: "-ve" = Export, "+ve" = Import | SCH = Scheduled export to other regions | Actual = Actual export done | OD/UD = deviation from schedule

Western Region remained power surplus during FY 2024-25 and exported power to other regions during all the months of the year.

- Higher-than-scheduled export occurred in Apr-24, May-24, Jun-24, Aug-24, and Dec-24. Lower-than-scheduled export occurred in Jul-24, Sep-24, Oct-24, Nov-24, Jan-25, Feb-25, and Mar-25.
- The highest actual export was in May-24 (-11911.76). The lowest actual export was in Nov-24 (-4686.98).
- The largest negative OD/UD was in Aug-24 (-684.83), The largest positive OD/UD was in Sep-24 (+346.48), indicating export was below schedule the most in that month.
- Net yearly OD/UD = -173.31, so overall the region exported slightly more than scheduled during the year.

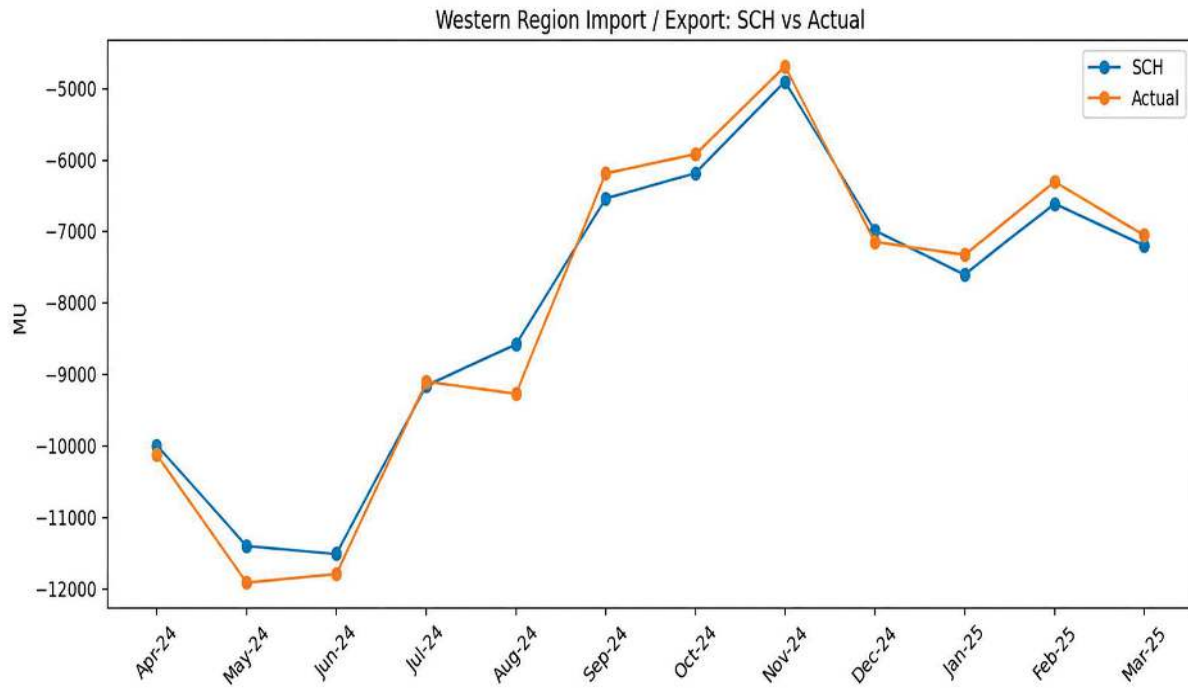


Figure-2.36

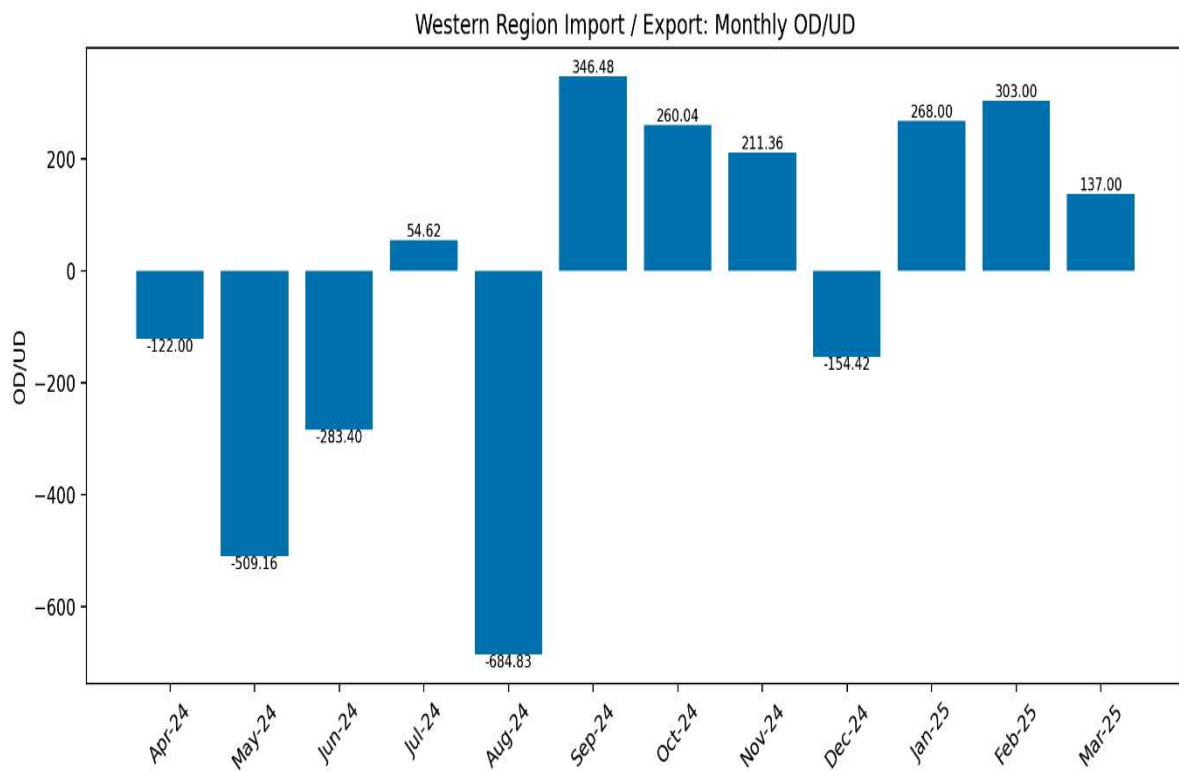


Figure-2.37

2.10 New elements commissioning during the FY 2024-25.

2.10.1 Addition to the ISTS connected Generation Capacity:

During FY 2024–25, the Western Region added 3,919.335 MW of new generating capacity connected to ISTS system. The capacity addition was dominated by solar projects, accounting for 3,177.935 MW (81.1%), followed by wind at 511.4 MW (13.0%) and hybrid projects at 230 MW (5.9%). This reflects the continued growth of renewable energy capacity in the region, particularly grid-connected solar capacity.

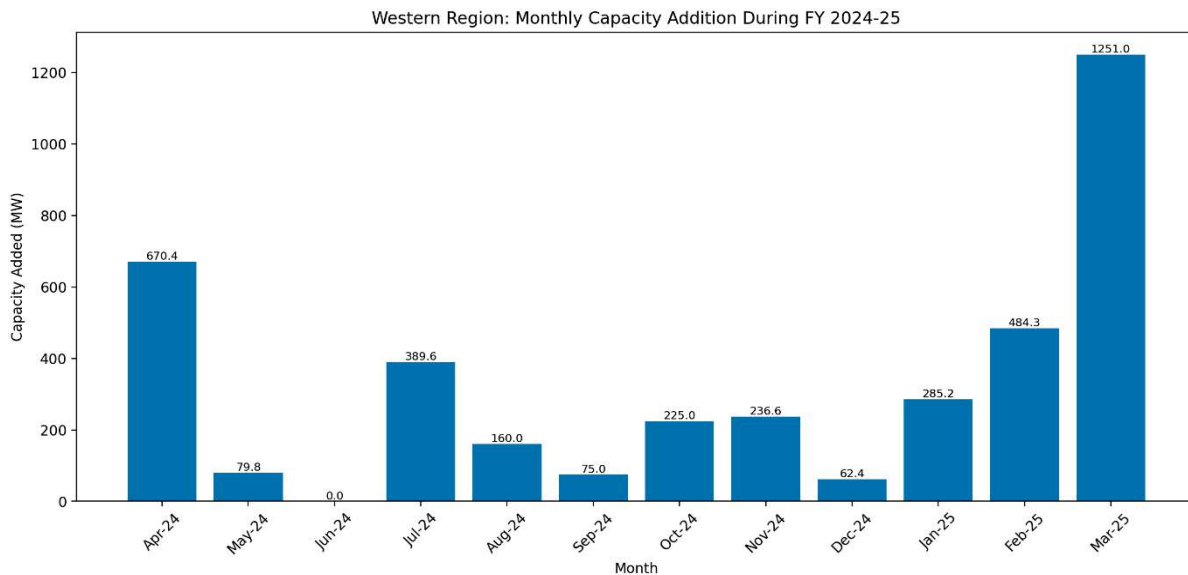


Figure-2.38

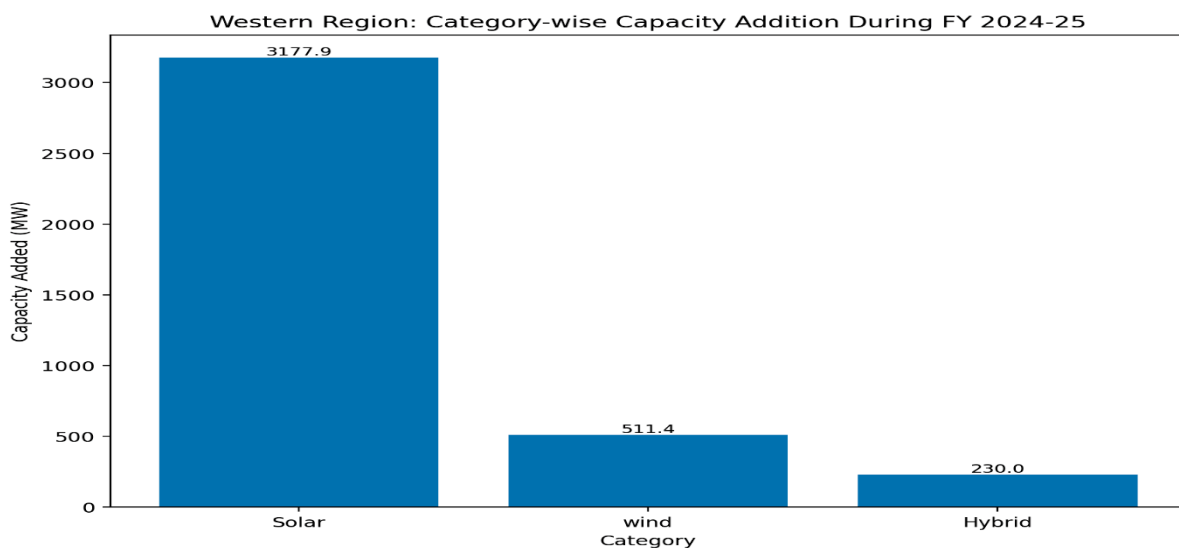


Figure-2.39

Sl. No.	Owner Name	State	Source	Capacity Added (MW)	Date of Synchronization	Sector
1	Alfanar Netra Vayu	Gujarat	Wind	45.4	25.04.24	IPP
2	RUMSL	Madhya Pradesh	Solar	200	11.04.24	IPP
3	RUMSL	Madhya Pradesh	Solar	350	15.04.24	IPP
4	SJVN Green Energy Ltd.	Gujarat	Solar	75	01.04.24	Central Sector
5	Adani Wind Energy Kutchh Four Ltd.	Gujarat	Wind	67.2	04.05.24	IPP
6	Apraava Energy Pvt. Ltd.	Gujarat	Solar	12.6	01.05.24	IPP
7	Adani Renewable Energy Forty-One Limited	Gujarat	Solar	249.6	24.07.24	IPP
8	TP Saurya Ltd.	Gujarat	Solar	140	18.07.24	IPP
9	TP Saurya Ltd.	Madhya Pradesh	Solar	160	03.08.24	IPP
10	SGEL-Raghanesda	Gujarat	Solar	25	18.09.24	IPP
11	NTPC-REL	Madhya Pradesh	Solar	50	30.09.24	Central Sector
12	Ambuja Cements Ltd.	Gujarat	Solar	200	03.10.24	IPP
13	Adani Green Energy	Gujarat	Solar	25	08.10.24	IPP
14	NTPC REL	Madhya Pradesh	Hybrid	55	29.11.24	Central Sector
15	TP Saurya	Madhya Pradesh	Solar	20.06	29.11.24	IPP
16	Adani Green Energy	Gujarat	Hybrid	25	29.11.24	IPP
17	Adani Green Energy	Gujarat	Wind	20.8	29.11.24	IPP
18	Adani Green Energy	Gujarat	Solar	115.775	29.11.24	IPP
19	Adani Green Energy	Gujarat	Solar	62.4	04.12.24	IPP
20	Adani Green Energy	Gujarat	Solar	192.5	10.01.25	IPP
21	Apraava Energy	Gujarat	Solar	6.3	17.01.25	IPP
22	NTPC Green Energy	Madhya Pradesh	Hybrid	50	10.01.25	Central Sector

Sl. No.	Owner Name	State	Category	Capacity Added (MW)	Date of Synchronization	Category
23	Adani Green Energy	Gujarat	Solar	36.4	04.01.25	IPP
24	Adani Green Energy	Gujarat	Solar	83	25.02.25	IPP
25	Adani Green Energy	Gujarat	Solar	79.275	24.02.25	IPP
26	Adani Green Energy	Gujarat	Solar	112.5	27.02.25	IPP
27	Apraava Energy Pvt.	Gujarat	Solar	7.5	16.02.25	IPP
28	Adani Renewable Energy	Gujarat	Solar	100	18.02.25	IPP
29	Adani Renewable Energy	Gujarat	Solar	50	20.02.25	IPP
30	Adani Renewable Energy	Gujarat	Wind	52	14.02.25	IPP
31	RenewGreen	Maharashtra	Hybrid	100	13.03.25	IPP
32	NTPC Green	Madhya Pradesh	Solar	50	13.03.25	Central Sector
33	Adani Green Energy	Gujarat	Solar	0.025	01.03.25	IPP
34	Adani Green Energy	Gujarat	Solar	287.5	30.03.25	IPP
35	Adani Green Energy	Gujarat	Solar	12.5	30.03.25	IPP
36	Adani Green Energy	Gujarat	Solar	200	31.03.25	IPP
37	Adani Green Energy	Gujarat	Solar	100	30.03.25	IPP
38	Adani Green Energy	Gujarat	Solar	175	30.03.25	IPP
39	Adani Green Energy	Gujarat	Wind	0.4	06.03.25	IPP
40	Adani Green Energy	Gujarat	Wind	72.8	30.03.25	IPP
41	Adani Green Energy	Gujarat	Wind	52	30.03.25	IPP
42	Adani Green Energy	Gujarat	Wind	98.8	30.03.25	IPP
43	Adani Green Energy	Gujarat	Wind	50	30.03.25	IPP
44	Adani Green Energy	Gujarat	Wind	52	31.03.25	IPP

Table-2.13

2.10.2 Transmission Line Added (km) to the ISTS system:

Total ISTS transmission line addition during the year was **1,911.51 km**.

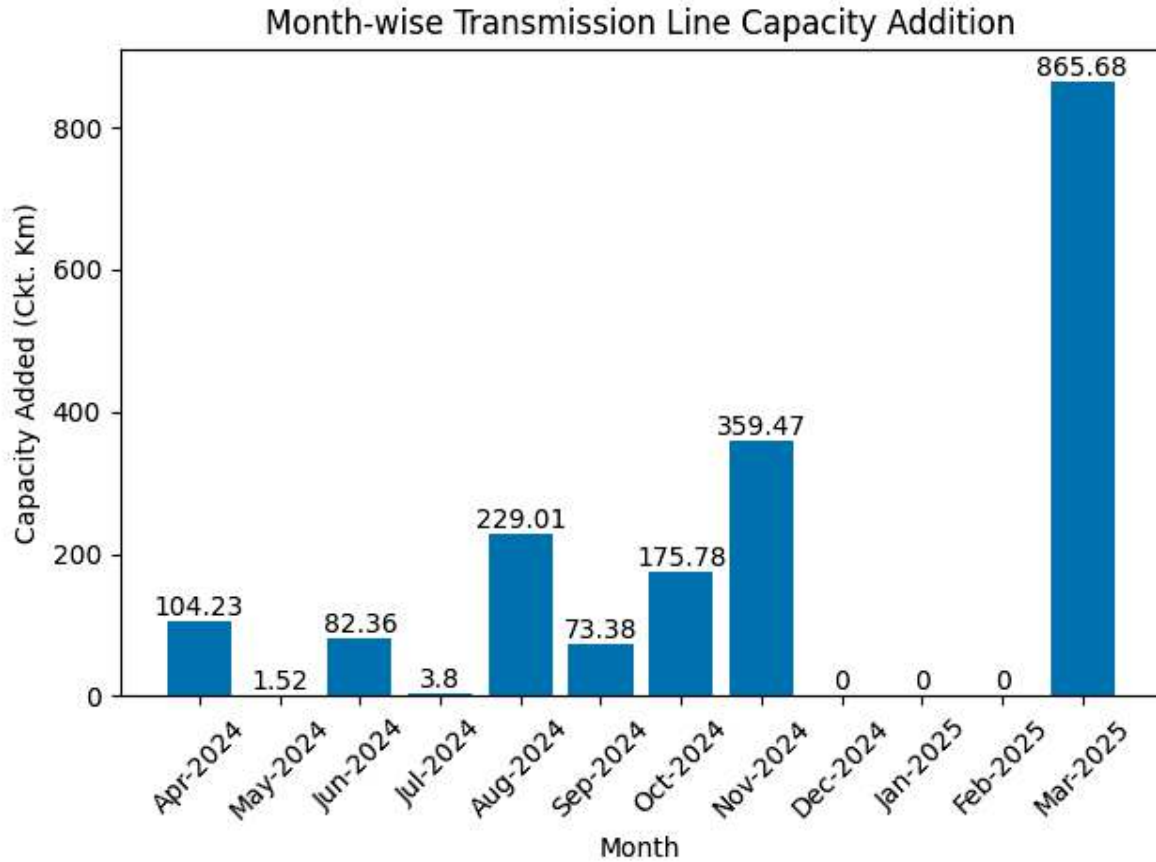


Figure-2.40

S. No.	Owner/ Location (Const.)	Line Name	kV	C.O.D	Added Line length Ckt.Km
1	PGCIL/ Gujarat	400kV Jamkhambaliya(JKTL) - Jamnagar (RIL) ckt 1	400	26.04.2024	45.615
2	PGCIL/ Gujarat	400kV Jamkhambaliya(JKTL) - Jamnagar (RIL) ckt 2	400	26.04.2024	45.615
3	KVTL/ Maharashtra	400KV Pune (PG) -Vikhroli (GIS)	400	28.04.2024	13
4	RUMSL/ Madhya Pradesh	220 kV Kawai Neemuch Ckt 1	220	10.05.2024	1.517
5	MPPTCL/ Madhya Pradesh	220 kV Ajaygarh-Satna Ckt 1 (LILO of 220 kV Satna Chattarpur Ckt 1 at Ajaygarh S/s)	220	27.06.2024	82.36
6	RUMSL/ Madhya Pradesh	220 kV Bardawada Kawai Ckt 1	220	01.07.2024	3.796

7	Mumbai Urja Marg Limited/ Gujarat	400 kV Vapi-II-Vapi (PG) Ckt 1	400	03.08.2024	5.67
8	Mumbai Urja Marg Limited/ Gujarat	400 kV Vapi-II-Kakrapar3&4 Ckt 1	400	04.08.2024	111.67
9	Mumbai Urja Marg Limited/ Gujarat	400 kV Vapi-II-Kakrapar3&4 Ckt 2	400	23.08.2024	111.67
10	Mumbai Urja Marg Limited/ Gujarat	400 kV Vapi-II-Vapi (PG) Ckt 2	400	02.09.2024	5.67
11	Mumbai Urja Marg Limited/ Maharashtra	400 kV Padhge(PG)-Navi Mumbai (GIS)	400	16.09.2024	67.706
12	KVTL/ Maharashtra	400KV Pune (PG) -Vikhroli (GIS) Ckt-1	400	07.10.2024	110
13	KVTL/ Maharashtra	400KV Kalwa-Vikhroli (GIS) Ckt-1	400	07.10.2024	14
14	Mumbai Urja Marg Limited/ Maharashtra	220 kV-Navi Mumbai (PG) - Apta (MSETCL) Ckt 1	220	15.10.2024	16.297
15	Mumbai Urja Marg Limited/ Maharashtra	220 kV-Navi Mumbai (PG) - Apta (MSETCL) Ckt 2	220	15.10.2024	16.297
16	Mumbai Urja Marg Limited/ Maharashtra	220kV Navi Mumbai (PG) - Taloja (MSETCL)	220	15.10.2024	13.197
17	Mumbai Urja Marg Limited/ Maharashtra	220kV Navi Mumbai (PG) - New Print House (MSETCL) 1	220	15.10.2024	22.29
18	RUMSL/ Madhya Pradesh	220kV Burlay-Dehripal ckt-1	220	09.11.2024	7.639
19	GTTPL/ Goa	400KV Xeldem-GTTPL-Mapusa (PG) Ckt-2	400	11.11.2024	52.83
20	MSETCL	400 kV Karad Solapur (PG)	400	23.11.2024	299
21	KBTL/ Gujarat	765kV D/C KPS1 to Lakadia line (Bypassing KPS2 as temporary arrangement)- Ckt-1	765	01.03.2025	197.86
22	KBTL/ Gujarat	765kV D/C KPS1 to Lakadia line (Bypassing KPS2 as temporary arrangement)- Ckt-2	765	04.03.2025	197.86
23	PGCIL/ Chhattisgarh	400 kV Raipur Pool (Durg)-Dhamtari Line2	400	22.03.2025	88.065
24	CSPTCL/ Chhattisgarh	220 KV Raipur PG-Borjhara Line-2	220	29.03.2025	13
25	PGCIL/ Gujarat	400 kV New Navsari-Kala ckt 1	400	26.03.2025	142.1
26	MSETCL/ Maharashtra	220 kV Kudus Tarapur (220 kV Tarapur-Borivali LILO at Kudus)	220	29.03.2025	91.69
27	MSETCL/ Maharashtra	220 kV Kudus Borivali (220 kV Tarapur-Borivali LILO at Kudus)	220	29.03.2025	66.29
28	PGCIL-ER/ Chhattisgarh	400KV Jeypore Jagdalpur 2	400	31.03.2025	68.81

Table-2.14

2.10.3 ICT / Transformer Added (MVA) to the ISTS system:

Total ICT / transformer capacity added during the year was 15,205 MVA.

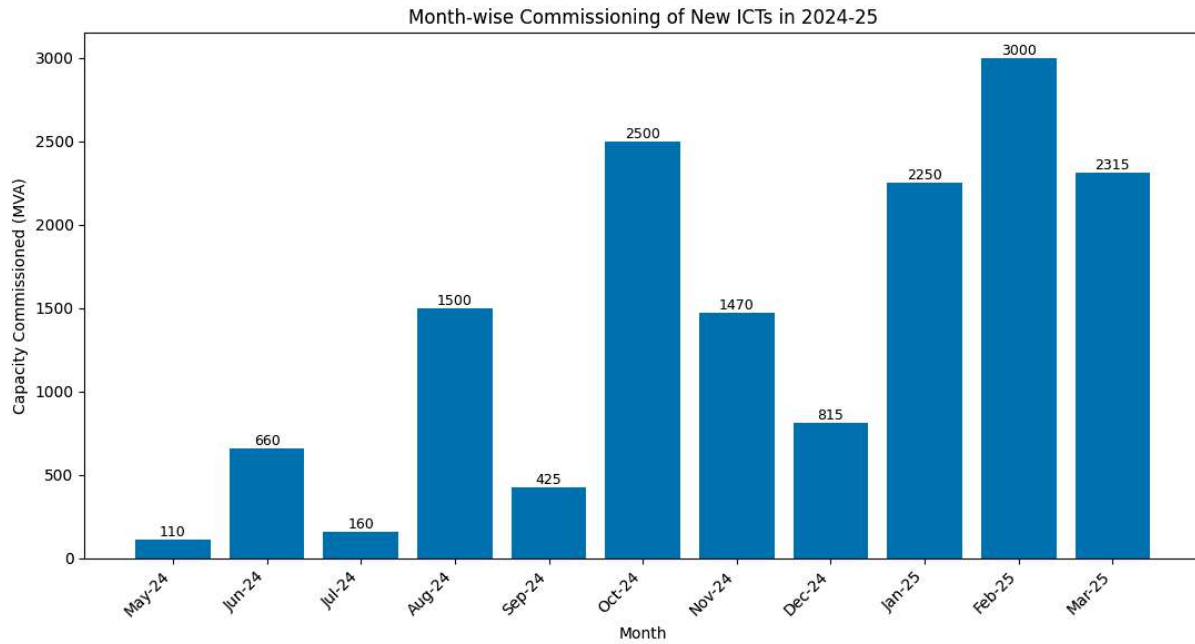


Figure-2.41

Sl. No.	Owner / Location (Const.)	Station Name	ICT No.	KV Ratio	Capacity (MVA)	Date
1	RUMSL	220/33 kV ICT 1 at Kawai SS	1	220/33	110	11-05-2024
2	AGEL / Gujarat	AGEL Khavda PSS-3	3	400/33	330	22-06-2024
3	AGEL / Gujarat	AGEL Khavda PSS-3	4	400/33	330	22-06-2024
4	RUMSL / Madhya Pradesh	220 kV Bardawada RUMSL	1	220/33	110	01-07-2024
5	RUMSL / Madhya Pradesh	220 kV Bardawada RUMSL	2	220/33	50	03-07-2024
6	Mumbai Urja Marg Limited / Gujarat	400/220 kV ICT 2 at Vapi-II S/s	2	400/220	500	18-08-2024
7	Mumbai Urja Marg Limited / Gujarat	400/220 kV ICT 1 at Vapi-II S/s	1	400/220	500	20-08-2024
8	PGCIL / Maharashtra	400/220 kV ICT 2 at Pune GIS	2	400/220	500	30-08-2024
9	PGCIL / Maharashtra	400/220 kV ICT-1 at Navi Mumbai SS	1	400/220	315	17-09-2024

10	RUMSL / MP	220/33 kV ICT 1 at Dehripal RUMSL	1	220/33	110	19-09-2024
11	EPTCL / Maharashtra	Hazira	3	400/220	500	04-10-2024
12	MSETCL / Maharashtra	Warora (MSETCL)	2	400/220	500	10-10-2024
13	PGCIL / Chhattisgarh	Kotra	6	765/400	1500	24-10-2024
14	GTTPL / Goa	Xeldem-GTTPL	2	400/220	500	04-11-2024
15	MPPTCL / Madhya Pradesh	Bhopal (MP) S/s	2	400/220	500	04-11-2024
16	RUMSL / Madhya Pradesh	Kawai S/s	2	220/33	110	07-11-2024
17	RUMSL / Madhya Pradesh	Burlay RUMSL	1	220/33	110	09-11-2024
18	RIL / Gujarat	RIL Jamnagar S/s	6	400/220	250	12-11-2024
19	MSETCL / Maharashtra	Bhusawal	6	400/220	315	20-12-2024
20	PGCIL / Chhattisgarh	Dharamjaygarh S/s	1	400/220	500	31-12-2024
21	Indigrd / Maharashtra	Kallam PS	3	400/220	500	01-01-2025
22	Indigrd / Maharashtra	Kallam PS	4	400/220	500	01-01-2025
23	MSETCL / Maharashtra	Warora (MH)	1	400/220	500	07-01-2025
24	RIL / Gujarat	RIL Jamnagar	5	400/220	250	09-01-2025
25	PGCIL / Chhattisgarh	Dharamjaygarh S/s	2	400/220	500	25-01-2025
26	KBTL / Gujarat	KPS1	4	765/400	1500	21-02-2025
27	KBTL / Gujarat	KPS1	5	765/400	1500	26-02-2025
28	PGCIL / Gujarat	New Navsari S/s	1	400/220	500	08-03-2025
29	PGCIL / Gujarat	New Navsari S/s	2	400/220	500	18-03-2025
30	CSPTCL / Chhattisgarh	Kurud S/s	3	400/220	315	28-03-2025
31	MSETCL / Maharashtra	Padghe S/s	6	400/220	500	31-03-2025
32	MSETCL / Maharashtra	Kharghar S/s	4	400/220	500	31-03-2025

Table-2.15

2.10.4 Addition of Line Reactor (MVAR) to the ISTS system:

Line reactor addition was recorded **63 MVAR**.

Sl. No.	Owner / Location (Const.)	Station Name	Line Name	KV	Capacity (MVAR)	Date
1	PGCIL / Madhya Pradesh	Jabalpur S/s	400kV Jabalpur-Vindhyachal-2	400	63	27-12-2024

Table-2.16

2.10.5 Addition of Bus Reactor (MVAR) to the ISTS system:

Total Bus reactor addition was **1,143 MVAR**.

Sl. No.	Owner / Location (Const.)	Station Name	B/R No.	KV	Capacity (MVAR)	Date
1	Kallam TL (Indigrid) / Maharashtra	Kallam PS	1	400	125	01-04-2024
2	Mumbai Urja Marg Limited / Gujarat	400kV Vapi-II S/s	1	400	125	21-08-2024
3	PGCIL / Maharashtra	63 MVAR BR at 400 kV Navi Mumbai S/s	1	400	63	16-09-2024
4	MSETCL / Maharashtra	80 MVAR Bus Reactor at 400 kV Kharghar Ss	1	400	80	19-09-2024
5	Indigrid / Maharashtra	Kallam PS	2	400	125	01-01-2025
6	Adani / Gujarat	KPS1	2	400	125	05-03-2025
7	PGCIL / Gujarat	New Navsari S/s	1	400	125	04-03-2025
8	MPPTCL / Madhya Pradesh	Kirnapur S/s	1	400	125	29-03-2025
9	MPPTCL / Madhya Pradesh	Birsingpur	1	400	125	29-03-2025
10	MSETCL / Maharashtra	Parli (MSETCL) S/s	1	400	125	29-03-2025

Table-2.17

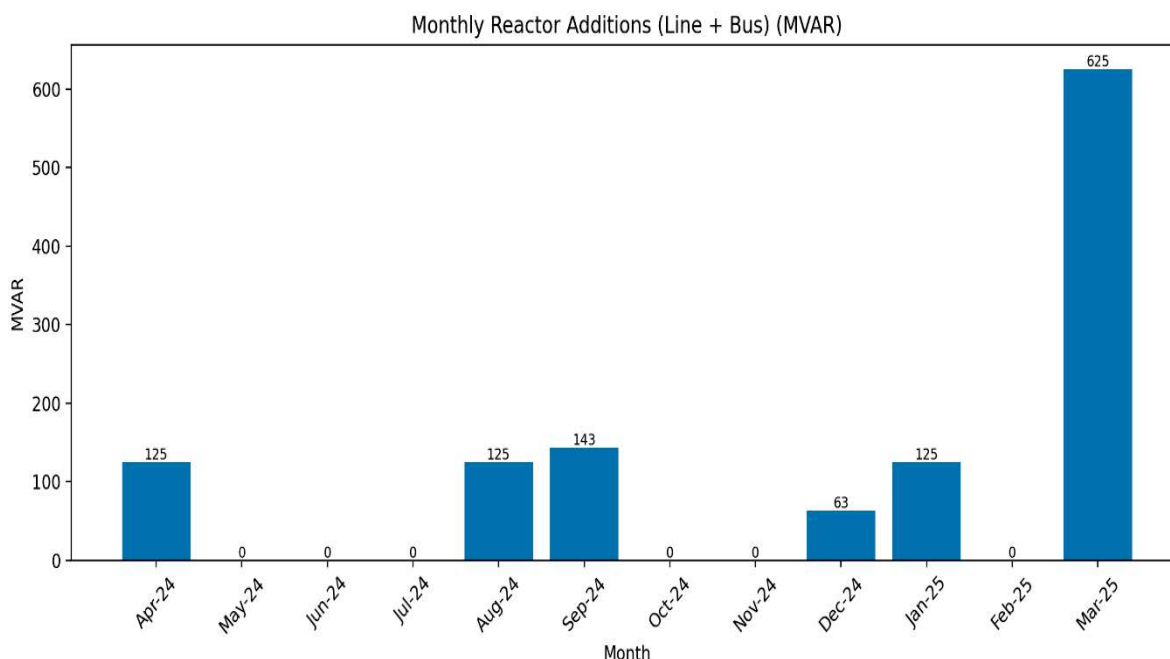


Figure-2.42

2.10.6 Addition of Spare Elements to the ISTS system:

Sl. No.	Owner / Location (Const.)	Station Name	Element	KV	Capacity (MVA/ MVAR)	Date
1	KBTL / Gujarat	Khavda PS1	Spare ICT for ICT-1,2,3	765/400	500	10-Jun-24
2	KBTL / Gujarat	Khavda PS1	Spare Bus reactor	765	110	10-Jun-24
3	MSETCL / Maharashtra	Bhusawal	ICT	400/220	105 MVA	16-Jan-25
4	MSETCL / Maharashtra	Warora	ICT	400/220	167 MVA	18-Jan-25

Table-2.18

2.10.7 Addition of FACTS Devices to the ISTS system:

Sl. No.	Owner / Location (Const.)	Station Name	Element	No.	KV	Capacity (MVAR)	Date
1	Beempow Energy Pvt Ltd / Madhya Pradesh	Agar Unit-5, Beempow	SVG	4	33	30	03-Apr-24
2	Beempow Energy Pvt Ltd / Madhya Pradesh	Agar Unit-5, Beempow	SVG	10	33	40	03-Apr-24
3	GSECL / Gujarat	RSP GSECL Ph-I	Capacitor Bank	1	33	16	06-Apr-24
4	GSECL / Gujarat	RSP GSECL Ph-I	Capacitor Bank	2	33	16	06-Apr-24
5	GSECL / Gujarat	RSP GSECL Ph-II	Capacitor Bank	1	33	16	06-Apr-24
6	GSECL / Gujarat	RSP GSECL Ph-II	Capacitor Bank	2	33	16	06-Apr-24
7	AWEK4L	Nakhatrana (AWEK4L)	SVG	1	33kV	50 MVA	06-May-24

Sl. No.	Owner / Location (Const.)	Station Name	Element	No.	KV	Capacity (MVAR)	Date
8	Adani Renewable Energy Holding Four Limited (AREH4L)	KHAVDA PSS-2 (AREH4L)	SVG	1	33kV	50 MVar	21-May-24
9	Adani Renewable Energy Holding Four Limited (AREH4L)	KHAVDA PSS-2 (AREH4L)	SVG	2	33kV	50 MVar	23-May-24
10	Adani Renewable Energy Holding Four Limited (AREH4L)	KHAVDA PSS-2 (AREH4L)	SVG	3	33kV	50 MVar	23-May-24
11	Adani Renewable Energy Holding Four Limited (AREH4L)	KHAVDA PSS-2 (AREH4L)	SVG	5	33kV	50 MVar	23-May-24
12	Avaada	Ladwan	SVG	1	33kV	50 MVar	23-May-24
13	Adani Renewable Energy Holding Four Limited (AREH4L) / Gujarat	KHAVDA PSS-2	SVG	6	33kV	50	02-Jun-24
14	AGEL / Gujarat	Khavda PSS3	SVG	1	33kV	50	19-Jun-24
15	AGEL / Gujarat	Khavda PSS3	SVG	2	33kV	50	19-Jun-24
16	AGEL (Adani Green Energy Limited)	Khavda PSS3 (AGEL)	SVG -1	1	33	12	01-Jul-24
17	AGEL (Adani Green Energy Limited)	Khavda PSS3 (AGEL)	SVG -2	2	33	12	01-Jul-24
18	AGEL (Adani Green Energy Limited)	Khavda PSS3 (AGEL)	SVG -4	4	33	12	01-Jul-24
19	Adani Green Energy Limited / Gujarat	Khavda PSS 3	SVG	6	33	50	24-Dec-24

Table-2.19

CHAPTER -3

Commercial and Energy Accounting Activities

3.1 Preparation of Weekly Accounts (DSM, REC, TRAS, SRAS and SCUC Statements)

3.1.1 DSM Statement:

The DSM settlement statement for the period 01.04.2024 to 15.09.2024 has been prepared detailing payable /receivable particulars in accordance with CERC (Central Electricity Regulatory Commission) Deviation Settlement Mechanism and related matters Regulation, 2022, CERC order dated 26.12.22, 06.02.2023 and 09.04.2023 in the matter of CERC DSM Regulations, 2022, CERC Ancillary Services Regulation, 2022 and as per Final detailed procedure for Tertiary Reserve Ancillary Services (TRAS) issued by Nodal Agency (NLDC) on 18.04.2023.

The DSM settlement statement for the period 16.09.2024 to 31.03.2025 has been prepared detailing payable /receivable particulars in accordance with CERC (Central Electricity Regulatory Commission) Deviation Settlement Mechanism and related matters Regulation, 2024, CERC order dated 16.09.2024 in the matter of CERC DSM Regulations, 2024, CERC Ancillary Services Regulation, 2022 and as per Final detailed procedure for Tertiary Reserve Ancillary Services (TRAS) issued by Nodal Agency (NLDC) on 18.04.2023.

Details of month-wise Schedule Drawal/Generation, Actual Drawal/Generation, Receivable/Payable of UI/Deviation Charge amount for the year 2024-25 are furnished in **Annexure-3.1.1.1**.

The graphical representation of month-wise percentage Deviation (+ Over drawal/-under drawal) is given below for ready reference.

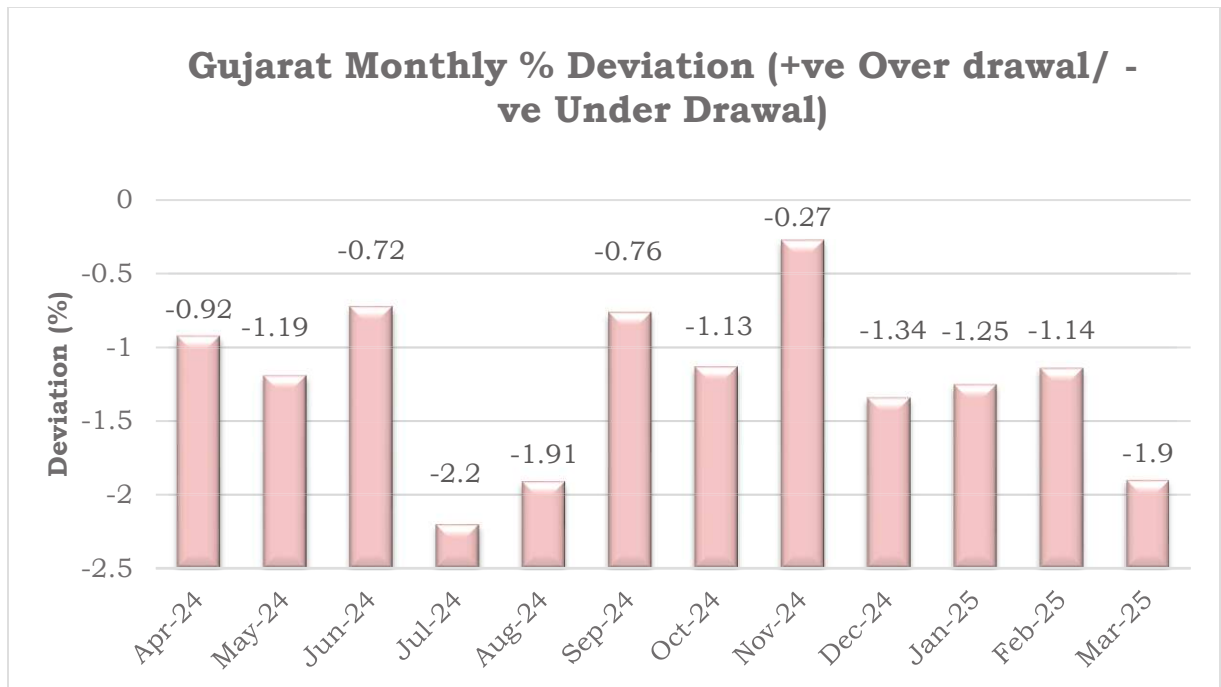


Figure-3.1

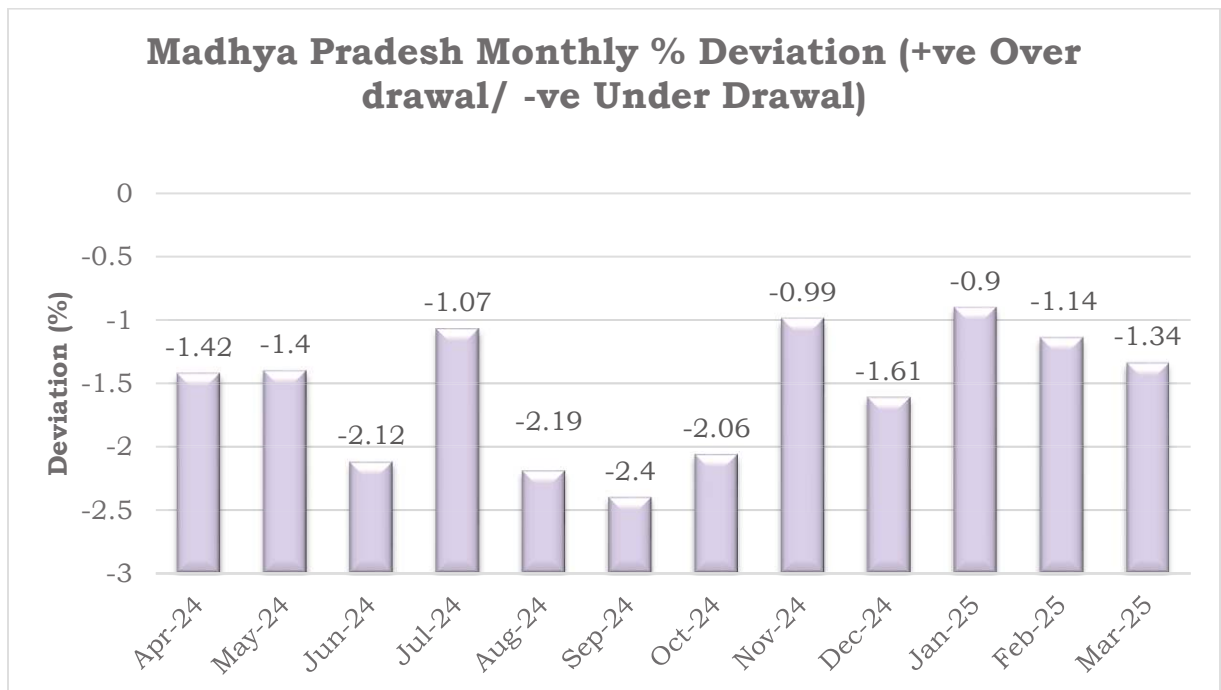


Figure-3.2

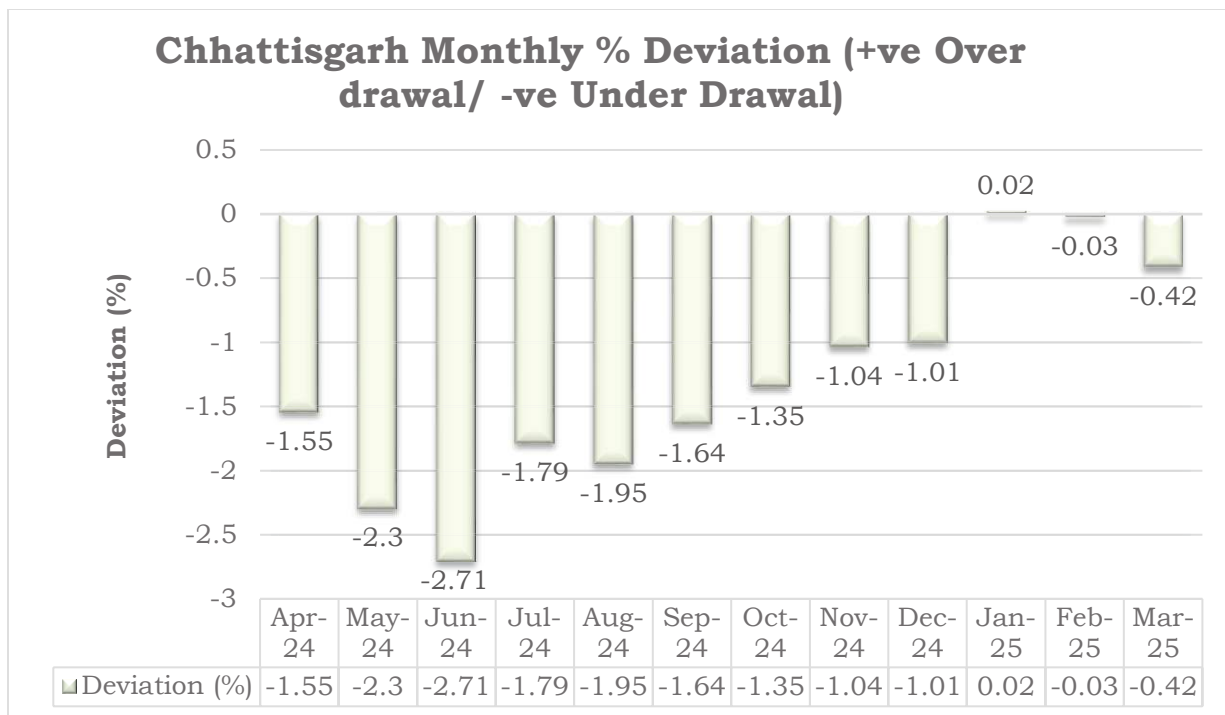


Figure-3.3

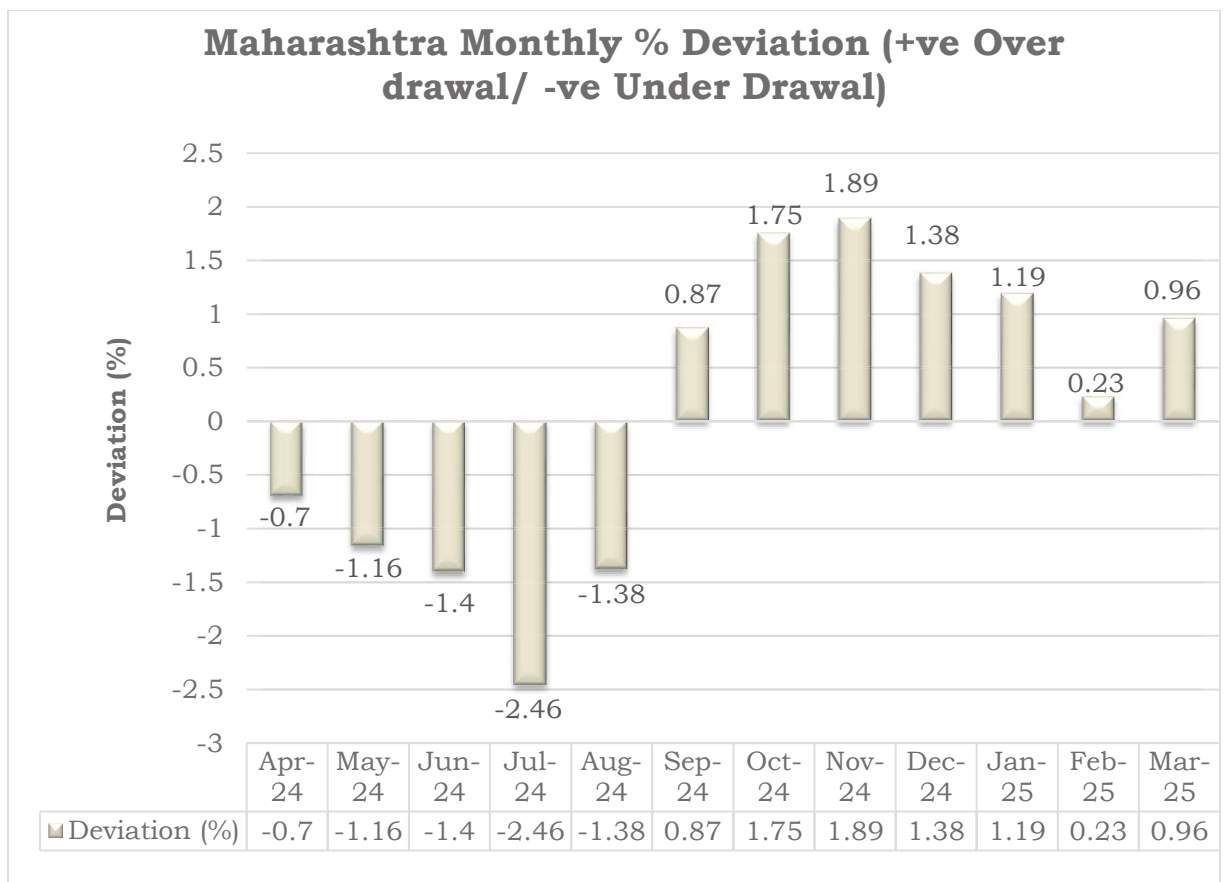


Figure-3.4

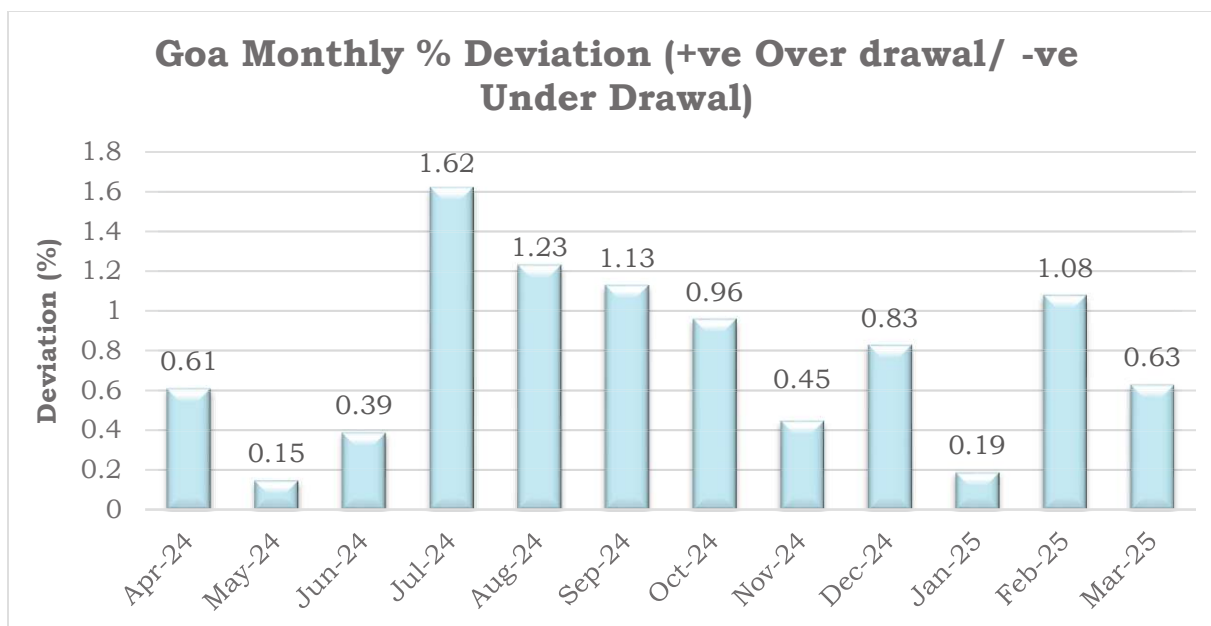


Figure-3.5

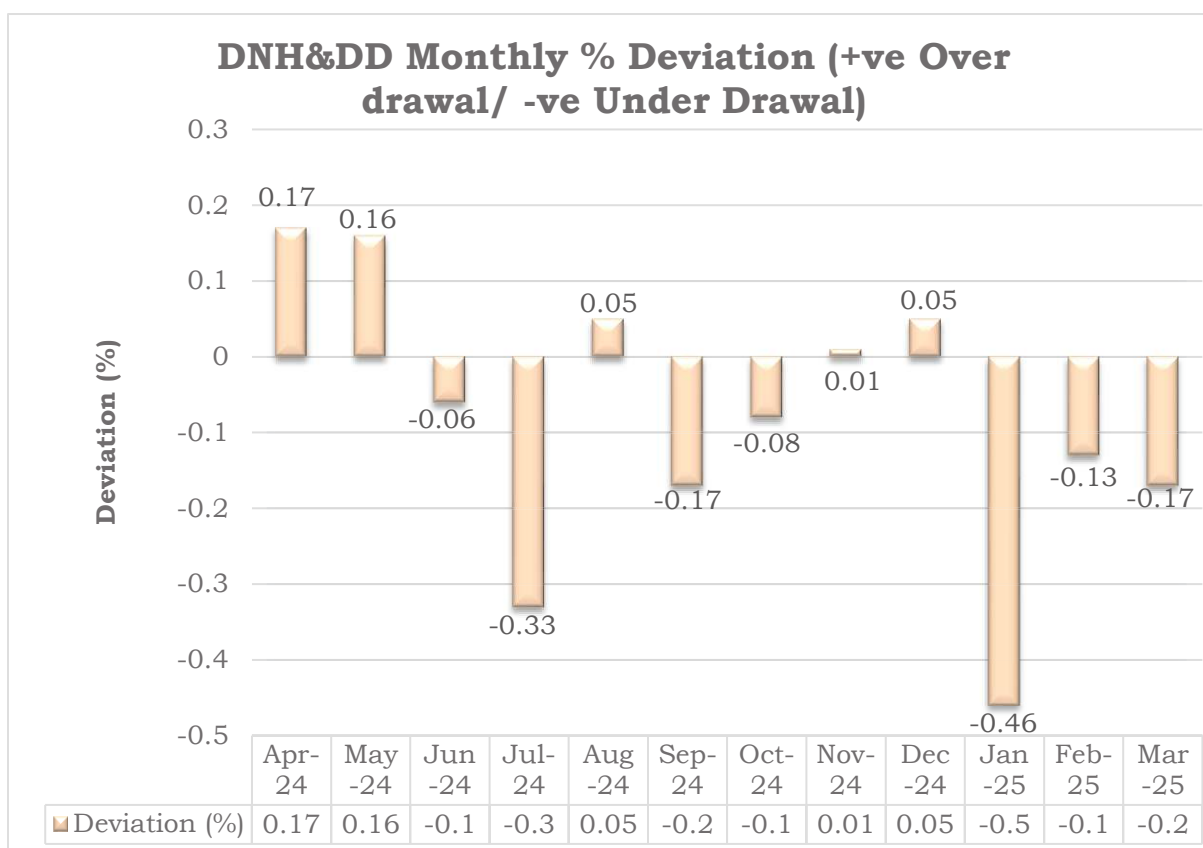


Figure-3.6

The list of DSM statements issued/revised in the FY 2024-25 is attached as **Annexure-3.1.1.2.**

3.1.2 Reactive Energy Charges Statement:

The REC statement for the FY-2024-25 has been prepared in accordance to Central Electricity Regulatory Commission (IEGC) Regulations-2023 as provided in the Electricity Grid code and is depicted as below:

- (a) Reactive power compensation should ideally be provided locally, by generating reactive power as close to the reactive power consumption as possible. The regional entities are therefore expected to provide local VAR compensation or generation such that they do not draw VARs from the EHV grid, particularly under low-voltage condition. To discourage Var drawals by regional entities, VAR exchanges with ISTS shall be priced as follows:
 - i. The regional entity pays for VAR drawal when voltage is below 97%.
 - ii. The regional entity gets paid for VAR return when voltage is below 97%.
 - iii. The regional entity gets paid for VAR drawal when voltage is above 103%.
 - iv. The regional entity pays for VAR return when voltage is above 103%.

Where all voltage measurements are at the interface point with ISTS.

- (b) The charge for VARh shall be at the rate of 5 paise/kVARh w.e.f. the date of effect of these regulations. This rate shall be escalated at 0.5paise/kVARh per year thereafter, unless otherwise revised.
- (c) The Reactive Energy charge rate is considered as 5.50 paise/kVARh (rates escalated by 0.5 paise/kVARh) w.e.f 01.04.2024 as per Annexure 4 IEGC 2023

The list of REC statements issued/revised in the FY 2024-25 is attached as **Annexure-3.1.2.1.**

3.1.3 TRAS and SRAS Statement:

The TRAS Statement is prepared as per the Detailed Procedure for Tertiary Reserve Ancillary Service (TRAS) in accordance with the Central Electricity Regulatory Commission (Ancillary Services) Regulations, 2022 and TRAS despatched quantum prices and schedules provided by WRLDC.

The SRAS Statement is based on CERC (Central Electricity Regulatory Commission) Ancillary Services Regulation, 2022.

The list of TRAS and SRAS statements issued/revised in the FY 2024-25 is attached as **Annexure-3.1.3.1.**

3.1.4 SCUC Statement:

The objective of Security Constrained Unit Commitment (SCUC) is to commit a generating station or unit thereof, for the maximisation of reserves in the interest of grid security, without altering the entitlements and schedule of the buyers of the said generating station in the day ahead time horizon. Reserves shall be procured and deployed in accordance with the Ancillary Services Regulations, and SCUC shall supplement such procurement of reserves under certain conditions, as specified in Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023. SCUC shall be undertaken if NLDC, in coordination with RLDCs and based on an assessment of the power system condition, anticipates that there is likely to be a shortage of reserves despite efforts made to procure such reserves in accordance with the Ancillary Services Regulations.

The details of SCUC Up/Down despatched in the descending order of Total MUs is provide below:

Central Thermal Generating Station	SCUC UP (MUs)	SCUC DOWN (MUs)	Total SCUC (MUs)
KHTPP	181.70	264.47	507.84
GSTPP	411.57	64.11	347.46
SSTPP	386.29	300.96	85.33
KSTPS-7	11.37	2.72	-2.72
KSTPS	41.04	6.15	-13.74
LSTPP	30.86	5.36	-13.97
VSTPS-III	40.77	19.84	-21.41
VSTPS-V	20.82	19.49	-33.01
VSTPS-II	33.91	24.26	-33.14
VSTPS-IV	38.58	24.76	-45.07
SIPAT-II	58.73	24.71	-58.11
SIPAT-I	107.33	38.22	-76.51
VSTPS-I	35.44	50.44	-100.12
MSTPS-I	105.41	288.33	-283.89
MSTPS-II	144.62	339.80	-304.31

Table-3.1

Graphical representation of Total SCUC Up/Down in MUs:

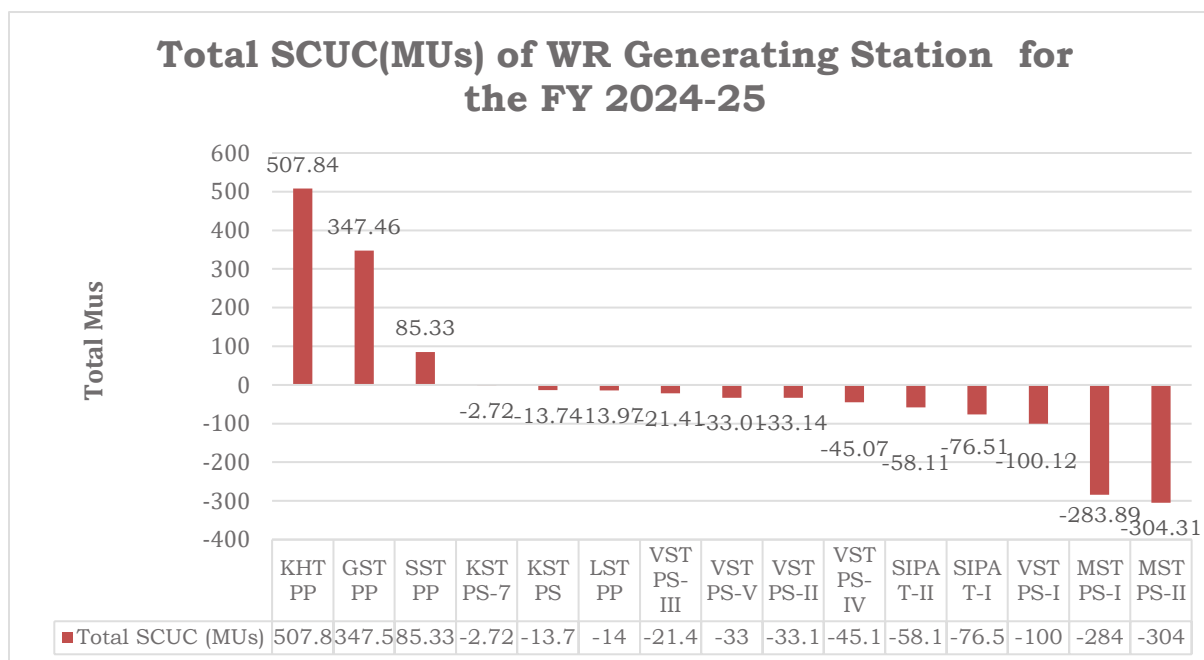


Figure-3.7

The list of SCUC statements issued/revised in the FY 2024-25 is attached as **Annexure-3.1.4.1**.

3.1.5 Congestion Statement:

The statement of Congestion is prepared in accordance with Central Electricity Regulatory Commission (Measures to relieve congestion in real time operation) Regulations, 2009 and subsequent orders.

The list of Congestion statement issued in the FY 2024-25 is attached as **Annexure-3.1.5.1**.

3.2 Preparation of Monthly Accounts (REA, RTA, RTDA, Ramping, Compensation Statements)

3.2.1 Regional Energy Account (REA):

CERC Regulations on Availability Based Tariff (ABT), applicable for accounting of Capacity charges and Energy charges of Central Sector Generating Stations; transmission charges of Central Sector Transmission Systems and transactions of interstate power through exchange and bilateral mechanisms, was implemented in Western Region (WR) w.e.f. 01.04.2003. CERC has issued

“CERC Tariff Regulations, 2024-29 (Terms and Conditions of Tariff)” which has come into force on and from 01.04.2024. This regulation shall remain in force for a period of five years i.e. up to 31.03.2029 from the date of commencement unless reviewed earlier or extended by the Commission.

The following are the major components of Availability Based Tariff (ABT):

- (i) Capacity Charge and Supplementary Capacity Charges inclusive of incentive (for recovery of Annual fixed cost).
- (ii) Energy Charges and Supplementary Energy Charges (for recovery of the cost of primary fuel, secondary fuel and reagents consumption).
- (iii) Transmission Charges (for recovery of annual fixed cost of transmission system).
- (iv) Deviation Settlement Mechanism, etc.

The regional energy accounts bring out the transactions/accounts for Central Generating Stations (CGSs), IPPs, GNA, T_GNA, etc.

3.2.2 Share Allocation of WR States from Central Generating Stations:

Regional Energy Accounting for central generating stations is based on the allocation orders from Ministry of Power /Central Electricity Authority. The percentage share of total capacity of each ISGS in Western Region is allocated to the beneficiaries of Eastern, Northern, Western, Southern and North Eastern Region, which is revised from time to time. Weighted average allocation of shares from each ISGS in Western Region during 2024-25 are given at **Annexure-3.2.2.1**.

The details of Installed Capacities of Western Region ISGS are tabulated below:

	Power plant	Installed Capacity (in MW)
SSTPP	Solapur Super Thermal Power Plant	1320
GSTPP	Gadarwara Super Thermal Power Plant	1600
MSTPS-I	Mouda Super Thermal Power Plant Stage-1	1000
MSTPS-II	Mouda Super Thermal Power Plant Stage-2	1320
LSTPP	Lara Super Thermal Power Plant	1600
VSTPS-V	Vidhyachal Super Thermal Power Plant Stage-5	500
VSTPS-IV	Vidhyachal Super Thermal Power Plant Stage-4	1000

VSTPS-I	Vidhyachal Super Thermal Power Plant Stage-1	1260
SIPAT-I	Sipat Super Thermal Power Station Stage-1	1980
VSTPS-III	Vidhyachal Super Thermal Power Plant Stage-3	1000
VSTPS-II	Vidhyachal Super Thermal Power Plant Stage-2	1000
SIPAT-II	Sipat Super Thermal Power Station Stage-2	1000
KSTPS-7	Korba Super Thermal Power Station Stage-7	500
KSTPS	Korba Super Thermal Power Station Stage-1&2	2100
KHTPP	Khargone Super Thermal Power Station	1320
KAPP	Kakrapar Atomic Power Plant Stage-1&2	440
KAPP-3&4	Kakrapar Atomic Power Plant Stage-3&4	1400
TAPP-3&4	Tarapur Atomic Power Plant Stage-3&4	1080

Table-3.2

The percentage share allocation of WR states from WR Central Generating Stations for F.Y 2024-25 has been shown below (as on **31.03.2025**):

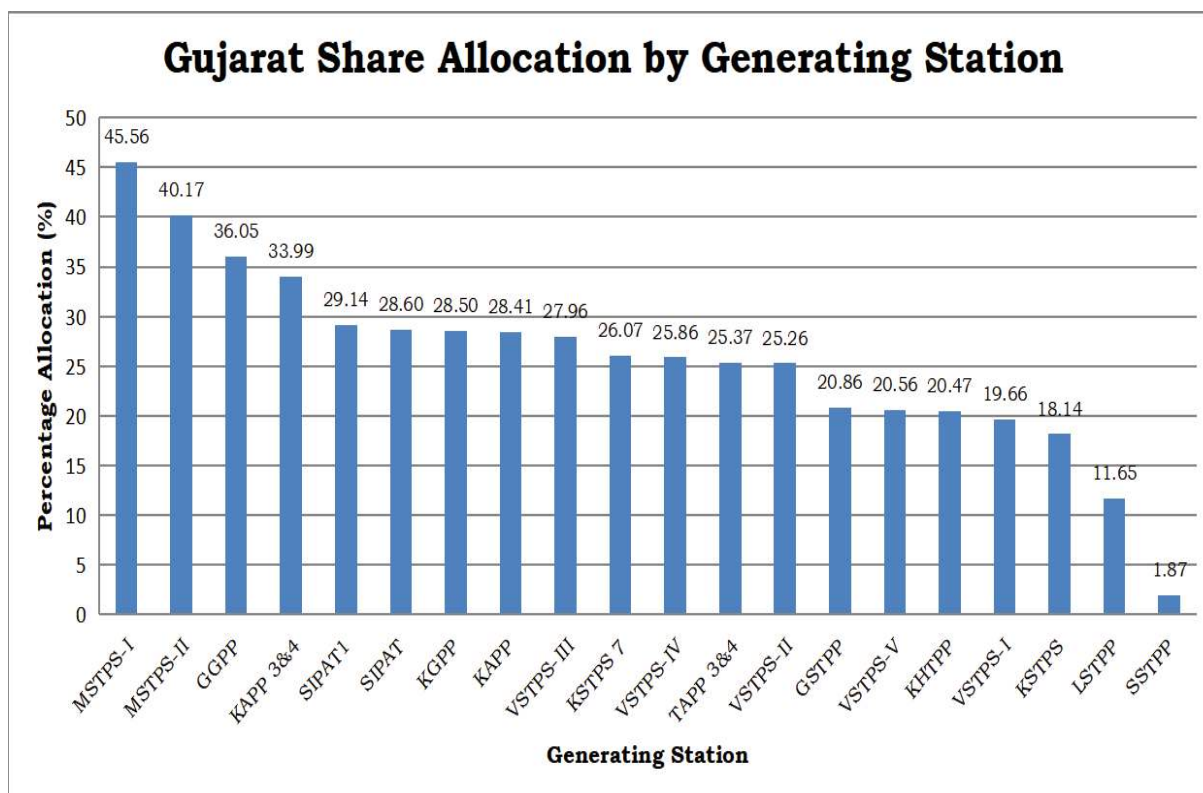


Figure-3.8

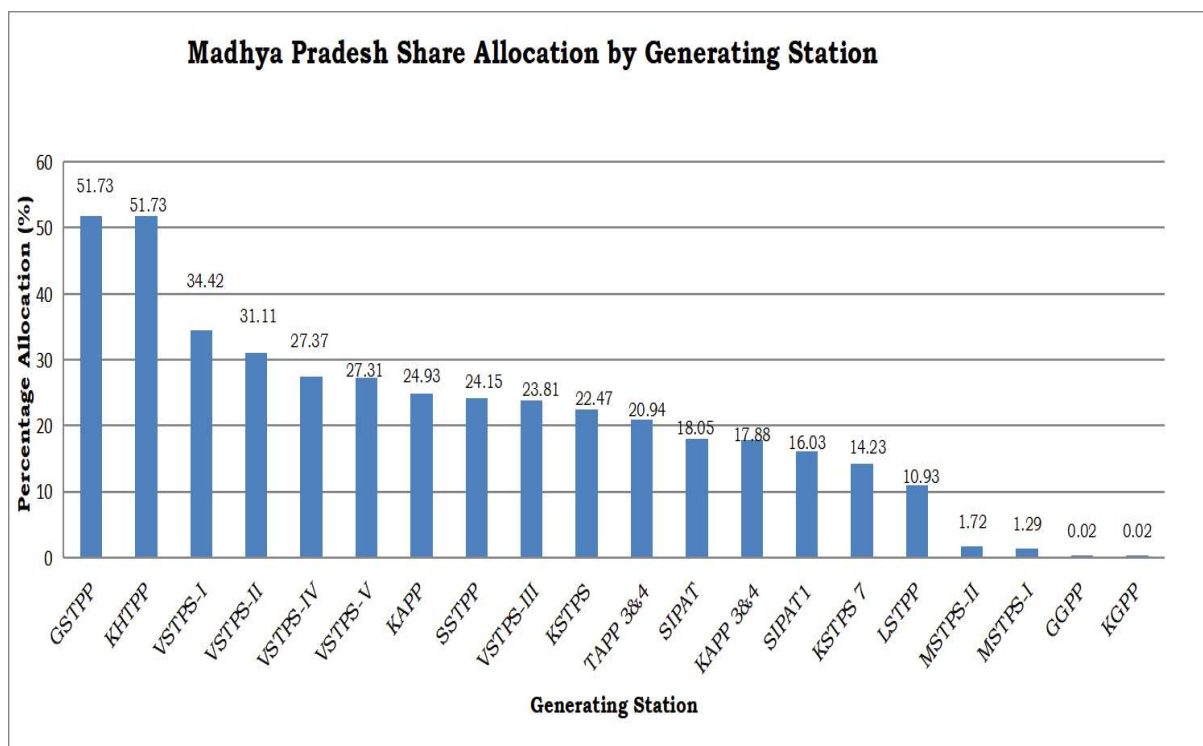


Figure-3.9

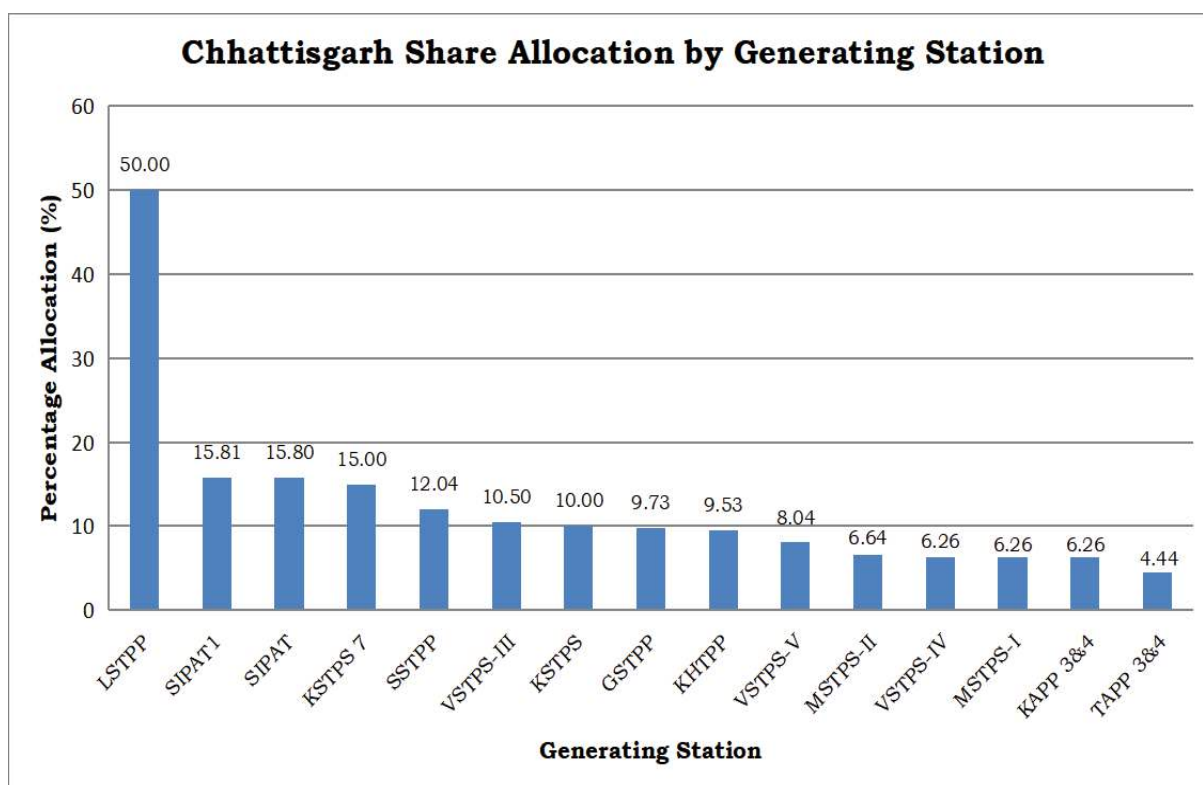


Figure-3.10

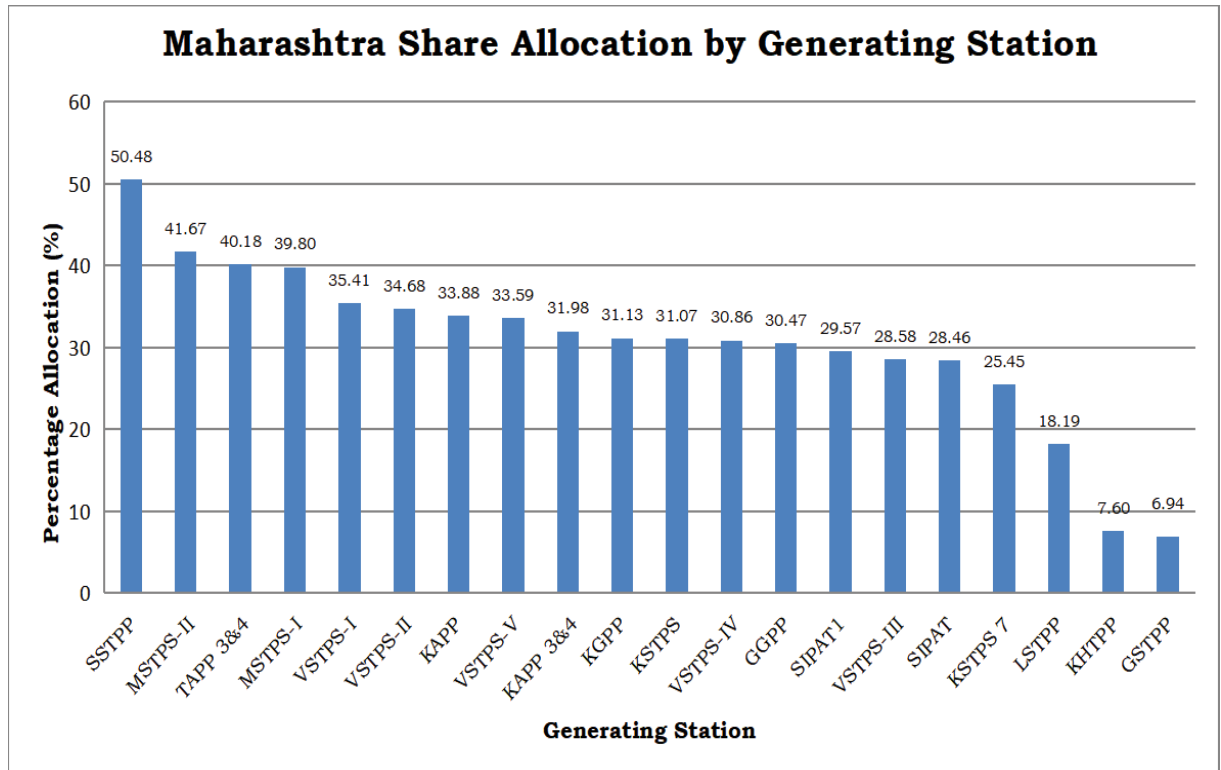


Figure-3.11

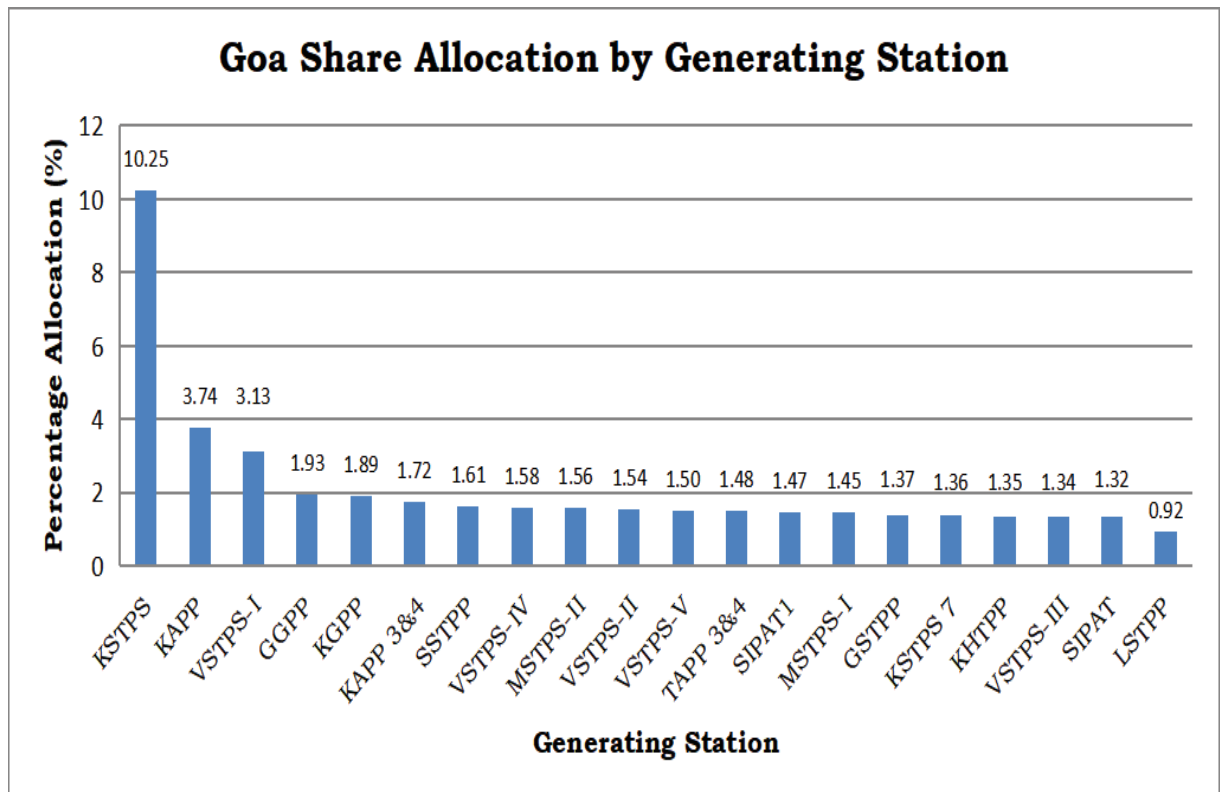


Figure-3.12

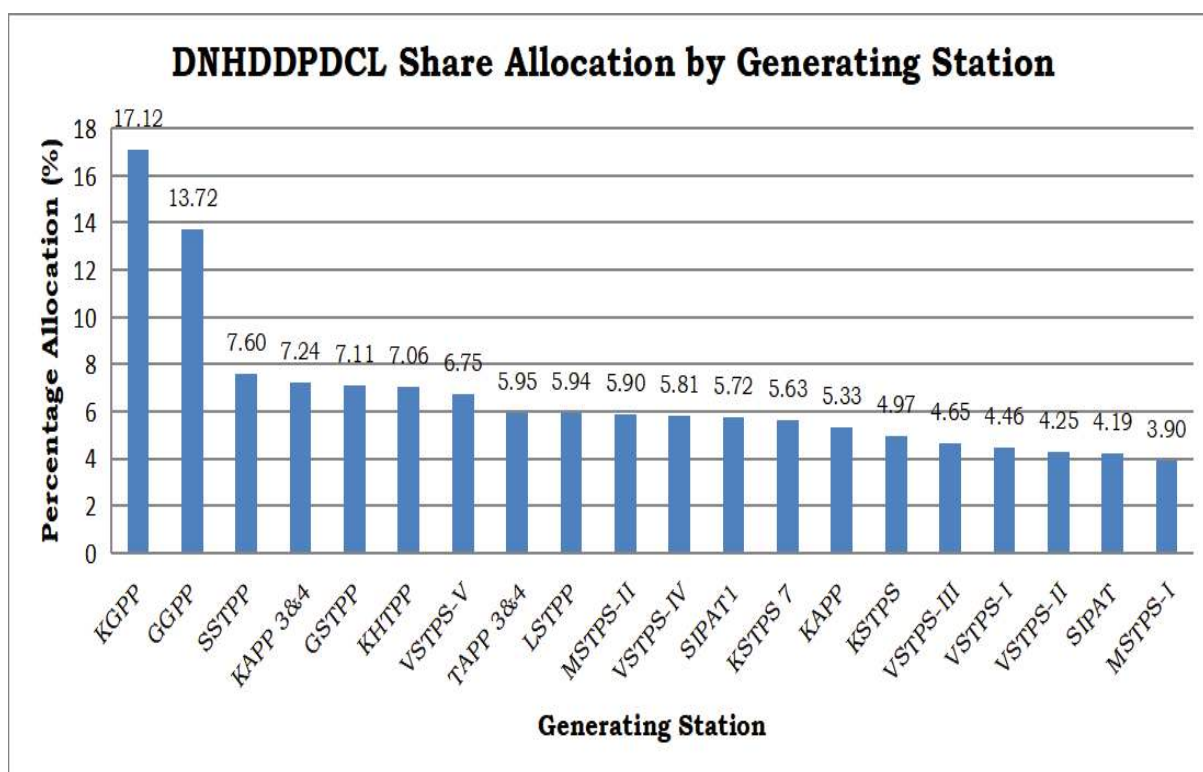


Figure-3.13

3.2.3 Accounting Of Central Generating Stations

3.2.3.1 Capacity Charges and Supplementary Capacity Charges:

The full capacity charge payable to a thermal generating station for a calendar month is ensured, if cumulative availability greater than (normative PAF) or more is achieved in line with the prevailed tariff regulations.

3.2.3.2 Energy Charges and Supplementary Energy Charges:

The Energy charges of the Central Generating Thermal Power Stations cover primary fuel, secondary fuel and reagent cost and monthly fuel price adjustment (FPA). From July, 2011 onwards, the Fuel Price Adjustment has been included in the energy charges. The energy charges payable by every beneficiary for the total energy scheduled to be supplied to such beneficiaries during the month on ex-power plant basis.

The indicative average Fixed charge rate and Energy charge rate for Central Sector Thermal stations in WR for the year 2024-25 were as under:

Central Thermal Generating Station	Avg. FCR (Rs. /KWH)	Avg. ECR (Rs. /KWH)	Total Avg. Charge rate (Rs. /KWH)
SSTPP	2.92	4.55	7.47
KHTPP	3.01	4.00	7.01
GSTPP	2.7	3.49	6.19
MSTPS-I	1.83	3.88	5.71
MSTPS-II	1.78	3.85	5.63
LSTPP	2.13	1.33	3.46
VSTPS-V	1.52	1.72	3.24
VSTPS-IV	1.47	1.65	3.12
VSTPS-I	0.94	1.76	2.7
SIPAT-I	1.21	1.48	2.69
VSTPS-III	0.85	1.67	2.52
VSTPS-II	0.75	1.69	2.44
SIPAT-II	0.91	1.52	2.43
KSTPS-7	1.09	1.3	2.39
KSTPS	0.69	1.33	2.02

Table-3.3

3.2.3.3 Average unit rate (Rs. /kWh) during 2024-25 (FCR-Fixed Cost rate & ECR-Energy Charge rate):

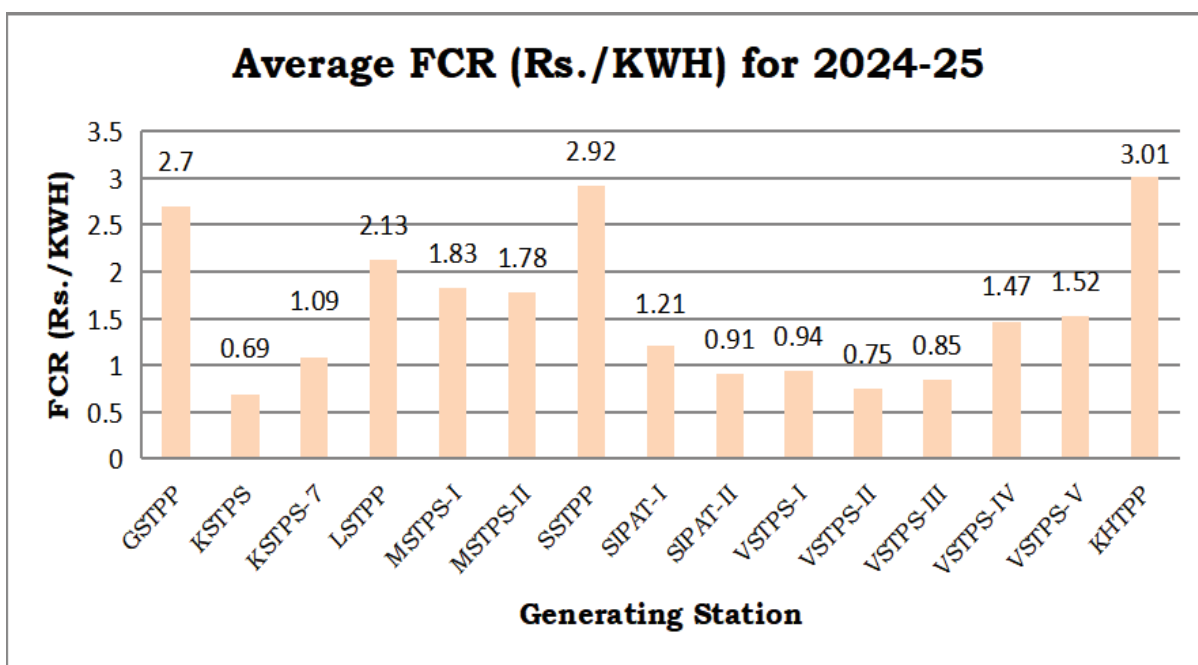


Figure-3.14

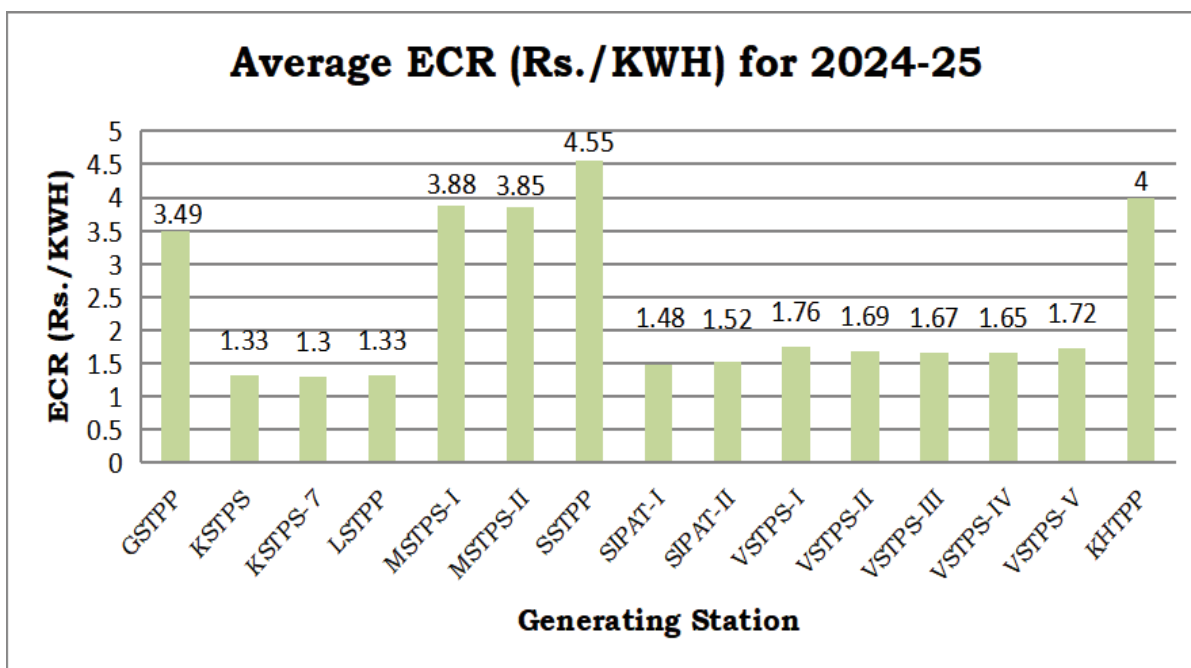


Figure-3.15

Descending order of Total charge rate (Avg FCR + Avg ECR) of Western Region Central thermal generating stations for the FY 2024-25 is as shown below:

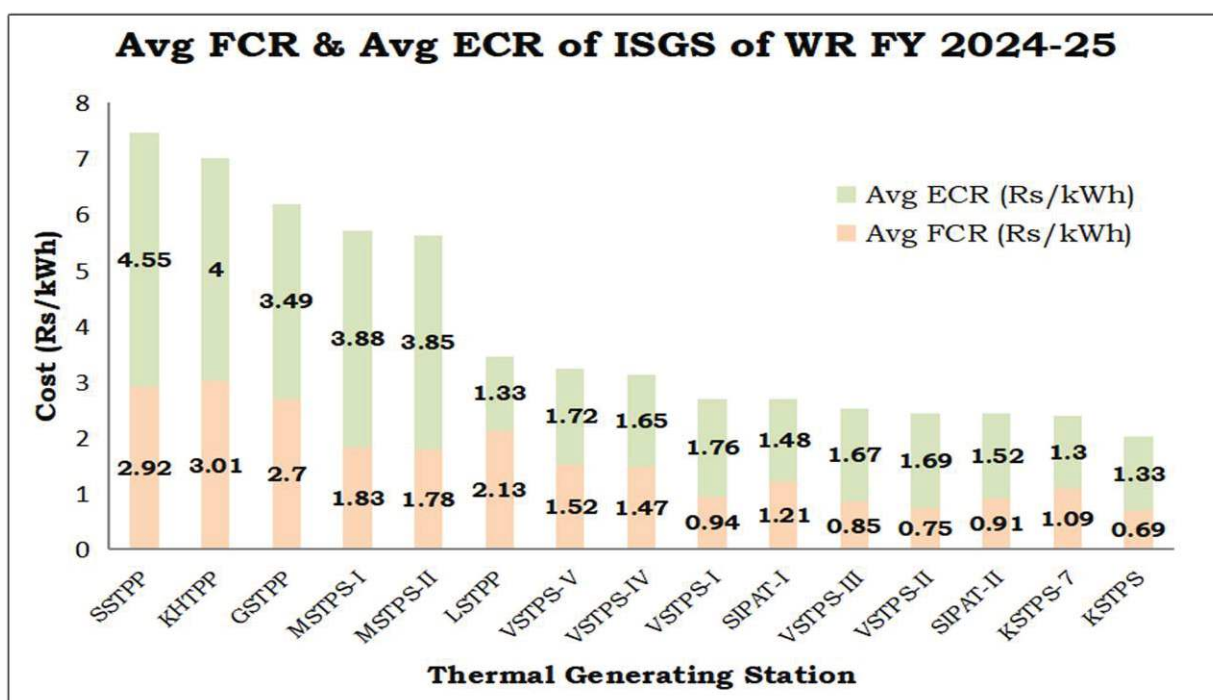


Figure-3.16

3.2.4 Annual Generation of NTPC Generators in WR during the FY 2024-25:

Central Thermal Generating station	Schedule Generation (MU)	Actual Generation (MU)	Actual Generation as % of Scheduled generation
SSTPP	6,128.88	6,254.12	102.04
GSTPP	8,873.00	7,963.18	89.75
MSTPS-I	6,038.18	5,891.95	97.58
MSTPS-II	7,745.08	7,548.70	97.46
LSTPP	12,044.27	11,230.75	93.25
VSTPS-V	3,900.61	3,789.13	97.14
VSTPS-IV	7,943.78	7,626.42	96.00
VSTPS-I	8,253.32	8,069.59	97.77
SIPAT-I	14,466.64	13,690.53	94.64
VSTPS-III	7,541.72	7,360.25	97.59
VSTPS-II	7,224.41	7,005.71	96.97
SIPAT-II	7,609.20	7,317.64	96.17
KSTPS-7	3,634.44	3,591.73	98.82
KSTPS	15,995.70	15,800.38	98.78
KHTPP	6,810.54	6,481.85	95.17

Table-3.4

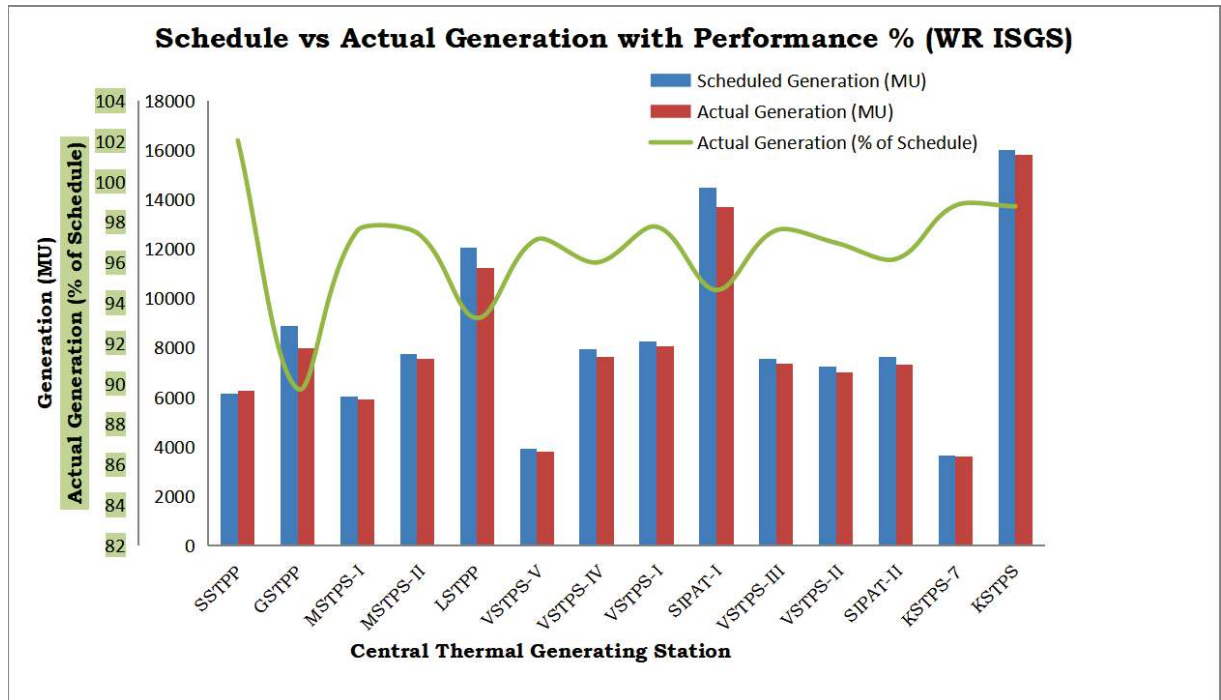


Figure-3.17

The details of net exchange scheduled energy (MU) from Western Region with other regions for the year 2024-25 [Import (+) / Export (-)] is furnished below:

NR	ER	SR	Total
67875.72004	-15111.56211	44756.09378	97520.2517

Table-3.5

Month-wise net exchange scheduled energy (MU):

Region	WR-NR	WR-ER	WR-SR
Apr-24	1560.74	501.37	7903.14
May-24	6958.33	748.42	3688.30
Jun-24	10133.69	800.58	614.55
Jul-24	9873.98	-876.42	218.31
Aug-24	8035.77	-922.43	2288.72
Sep-24	6082.89	-896.96	1342.72
Oct-24	6758.44	-2550.34	1970.27
Nov-24	4629.16	-3365.70	3627.35
Dec-24	4964.06	-3004.22	5028.94
Jan-25	5501.65	-2091.72	4187.90
Feb-25	3187.13	-2264.92	5690.39
Mar-25	189.88	-1189.22	8195.50

Table-3.6

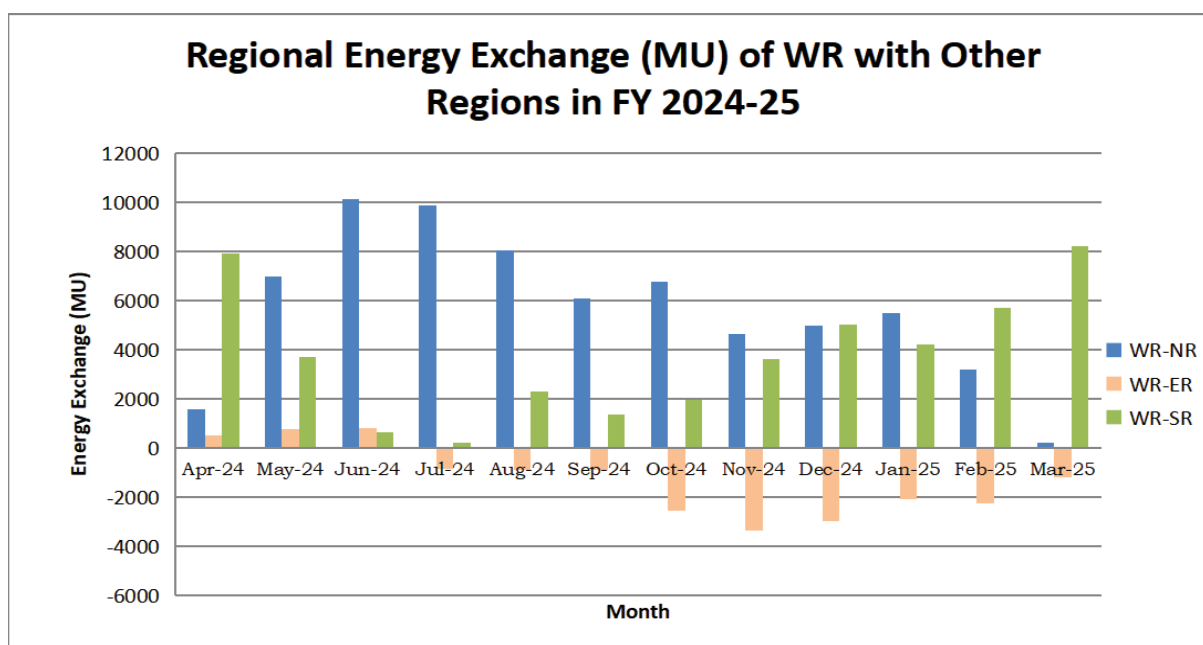


Figure-3.18

3.2.5 PAF & Schedule PLF of ISGS Thermal Stations in ER in F.Y 2024-25:

Plant Availability Factor (PAF) refers to whether a plant is available for generation or not. PAF of a generating station means the average of the daily Declared Capacities (DCs) for the period expressed as a percentage of the installed capacity in MW less the normative auxiliary consumption and normative auxiliary energy consumption for emission control system. The Annual Fixed Cost (AFC) of a generating station would be recovered based on the cumulative availability of station.

Schedule PLF of a plant refers to percentage schedule generation against its schedule generating capacity. It is used for recovery of primary and secondary fuel cost of station and charged to beneficiaries to the extent of their drawl schedule.

The cumulative **Plant Availability Factor (PAF)** & **Plant Load Factor (PLF)** for year 2024-25 for ISGS stations in Western Region are shown below:

ISGS	PAF Cumulative (%)	PLF Cumulative (%)
VSTPS I	85.82	83.32
VSTPS II	90.97	88.54
VSTPS III	94.22	91.84
VSTPS IV	99.68	97.11
VSTPS V	99.47	96.48
MSTPS-I	90.46	78.79
MSTPS-II	86.76	75.65
KSTPS I&II	94.07	93.05
KSTPS7	89.09	87.9
SIPAT I	90.61	88.54
SIPAT II	94.78	92.45
SSTPP	89.51	58.84
LSTPP	92.5	91.57
KHTPP	91	59.22
GSTPP	81.67	62.18

Table-3.7

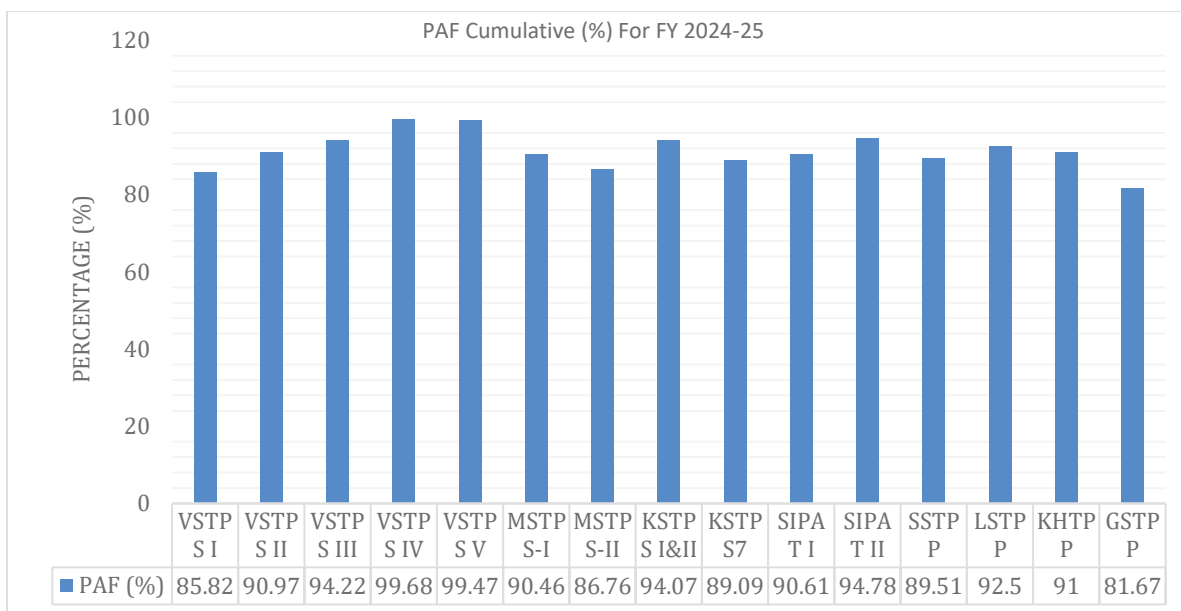


Figure-3.19

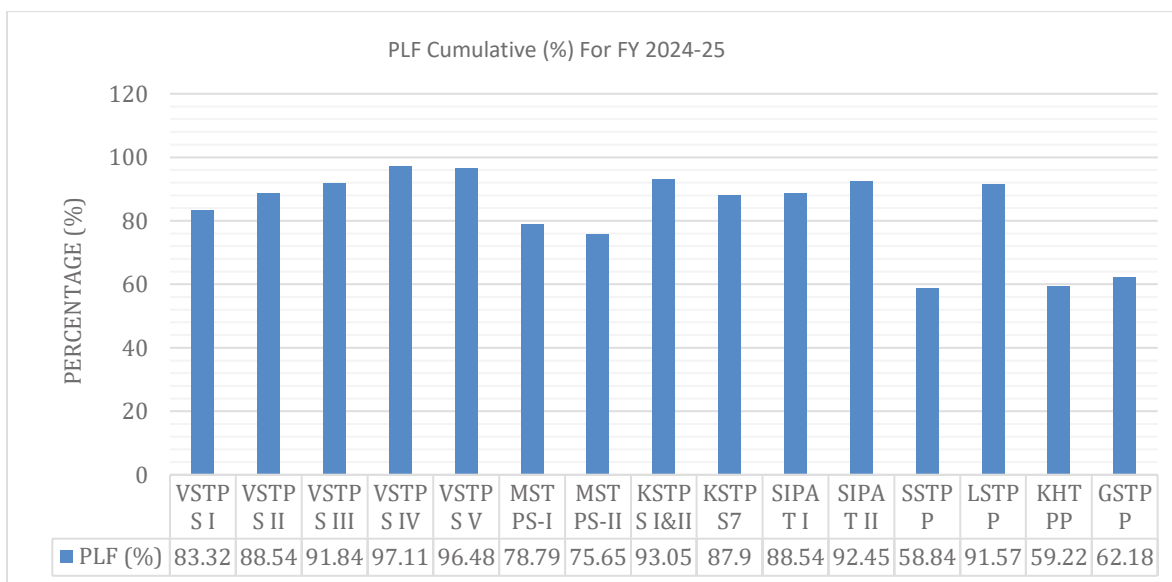


Figure-3.20

The list of Regional Energy Accounts (REA) issued/revised in the FY 2024-25 is attached as **Annexure-3.2.5.1**.

3.2.6 Regional Transmission Account (RTA): -

The Regional transmission charges are the charges payable for the energy transacted through the Inter State Transmission network which are billed by the CTU as published by the RPC secretariat. The transmission charges of the beneficiaries are calculated based on CERC (Sharing of Inter-State

Transmission Charges & Losses) Regulations, 2020 and Amendments thereof, which were notified for implementation from November-2020. Subsequent to the notification of CERC Sharing Regulations 2020, there have been three Amendments, the last one being notified on 27th October 2023.

Transmission Charges paid by various constituents (Rs. in Cr.) by various WR constituents during the year 2024-25: -

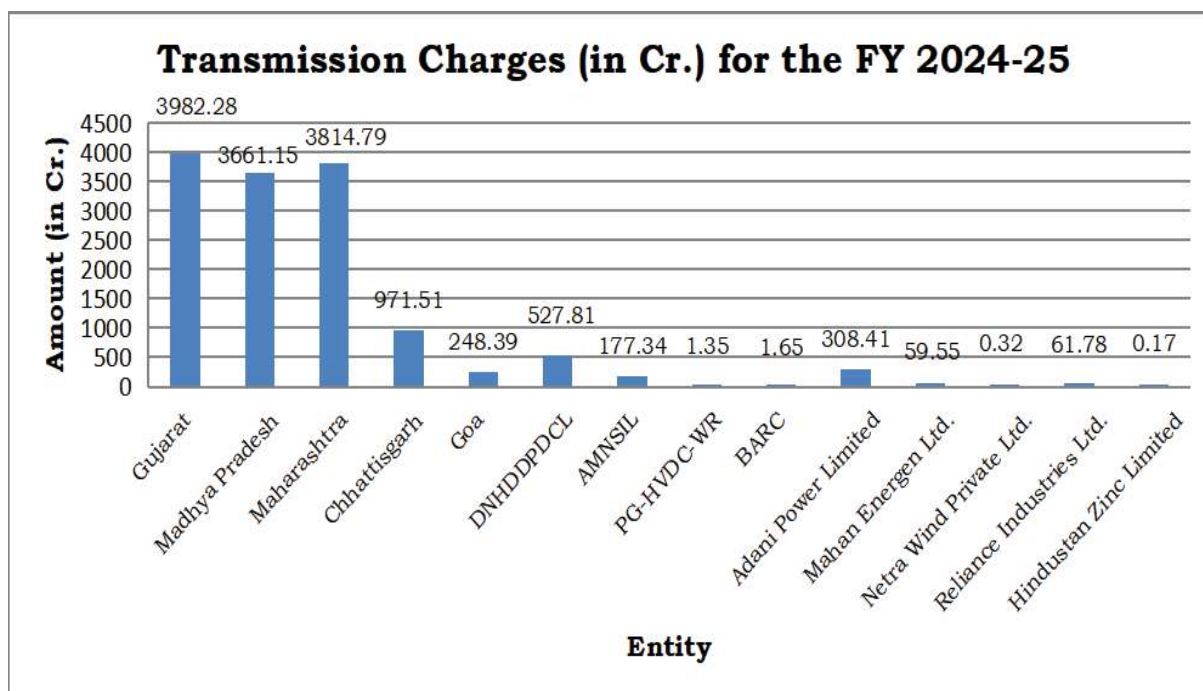


Figure-3.21

The list of Regional Transmission Accounts (RTA) issued/revised in the FY 2024-25 is attached as **Annexure-3.2.6.1**.

3.2.7 Regional Transmission Deviation Account (RTDA):

The RTDA is prepared in accordance with CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2020 dated 4th May 2020 & subsequent amendments, Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2022 and subsequent amendments which are effective from 01.10.2023.

The list of Regional Transmission Deviation Accounts (RTDA) issued/revised in the FY 2024-25 is attached as **Annexure-3.2.7.1**.

3.2.8 Ramping Certification:

The Ramping certificate is prepared in accordance with Regulation 30 of the CERC (Terms and Conditions of Tariff) Regulations, 2024 and the Revised Detailed Guidelines for assessment of ramping capability of thermal Interstate Generating Stations (ISGS) issued by NLDC vide letter dated 30.12.2020.

The list of Ramping Certifications issued in the FY 2024-25 is attached as **Annexure-3.2.8.1.**

3.2.9 Compensation Statement:

The Compensation statement is prepared as per Hon'ble CERC order dated 05th May 2017 on the subject "Detailed procedure for taking unit(s) under Reserve Shut Down and Mechanism for Compensation for Degradation of Heat Rate, Aux Compensation and Secondary Fuel Consumption, due to Part Load Operation and Multiple Start / Stop of Units". Further, the compensation for entities scheduled under SCED and SCUC is also computed based on the following orders.

- a) CERC order dated 31st January 2019 in Petition No. 02/SM/2019 (Suo-Motu) and Petition No 08/SM/2019 (Suo-Motu) dated 11th September 2019 in the matter of Pilot on Security Constrained Economic Dispatch (SCED) of Inter-State Generating Stations (ISGS) Pan India.
- b) Detailed Procedure for Security Constraint Unit Commitment (SCUC) in accordance with the Central Electricity Regulatory Commission (Indian Electricity Grid code) Regulations, 2023.

The list of Compensation Statements issued/revised in the FY 2024-25 is attached as **Annexure-3.2.9.1.**

3.2.10 SCED Statement:

CERC, vide Suo-Motu order dated 31.01.2019 in petition no. 02/SM/2019, has directed implementation of SCED for the Inter-State Generating Stations on pilot basis w.e.f. 01.04.2019. RPCs and Grid-India have been directed to conduct stakeholder awareness programs for smooth implementation of SCED pan-India.

The Central Commission observed that there is an overarching objective to optimize the Scheduling and dispatch of the generation resources and reduce the overall cost of Production of electricity without major structural changes

in the existing System/framework. SCED is a desired step in the Indian grid operation towards optimization methodologies.

The details of SCED Up/Down despatched in the descending order of Total MUs is provide below:

Central Thermal Generating Station	SCED UP (MUs)	SCED DOWN (MUs)	Total (MUs)
GSTPP	457.68	146.06	311.62
SIPAT-I	107.33	38.22	69.11
KSTPS	41.04	6.15	34.89
SIPAT-II	58.73	24.71	34.02
LSTPP	30.86	5.36	25.50
VSTPS-III	40.77	19.84	20.92
VSTPS-IV	38.58	24.76	13.82
VSTPS-II	33.91	24.26	9.64
KSTPS-7	11.37	2.72	8.65
VSTPS-V	20.82	19.49	1.33
VSTPS-I	35.44	50.44	-15.01
KHTPP	181.70	264.47	-82.77
MSTPS-I	105.41	288.33	-182.92
MSTPS-II	144.62	339.80	-195.17
SSTPP	62.21	363.61	-301.40

Table-3.8

Graphical representation of Total SCED Up/Down in MUs:

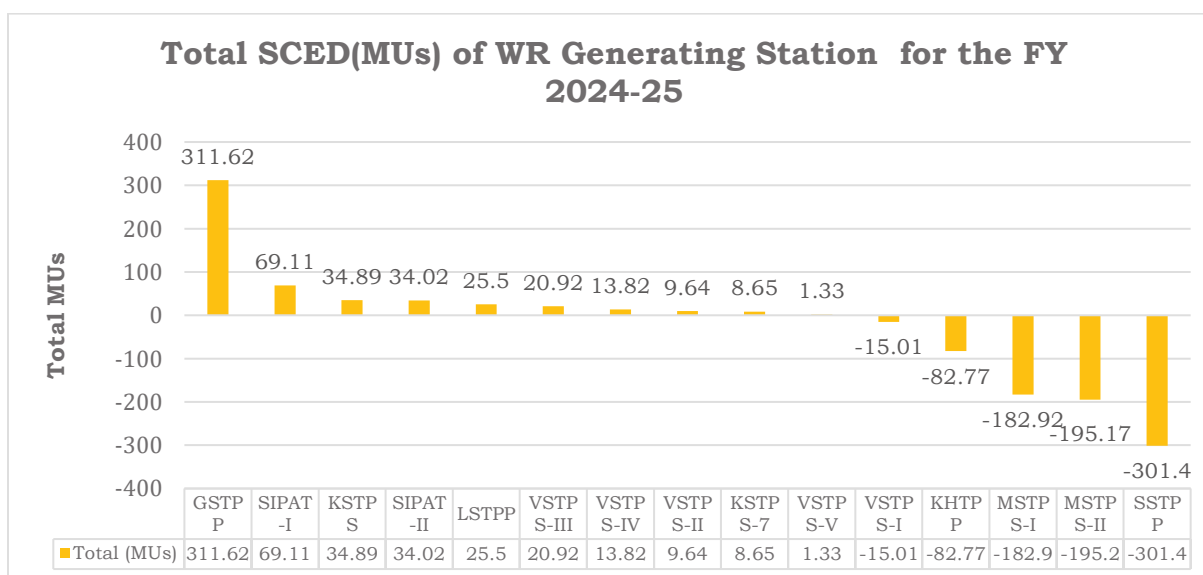


Figure-3.22

3.3 Issuance of Share Allocation:

The share allocation of central sector generating stations of the Western Region to the beneficiaries within and outside the region is prepared as and when orders are received from the Ministry of Power (MoP).

The list of share allocations issued in the FY 2024-25 is attached as **Annexure-3.3.1**.

3.4 CERC Regulations and Amendments:

Central Electricity Regulatory Commission (CERC), issued / notified regulations and Amendments during the year 2024-25 as listed below:

Sr. No	CERC Regulations On	Notification/ Gazette Date
1	Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for the tariff period from 1.4.2024 to 31.3.2029.	15.03.2024
2	Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2024.	16.09.2024
3	Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State transmission System) (Second Amendment) Regulations, 2024	15.07.2024
4	Central Electricity Regulatory Commission (Indian Electricity Grid Code) (First Amendment) Regulations, 2024	23.10.2024
5	Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) (First Amendment) Regulations, 2024	17.12.2024
6	Central Electricity Regulatory Commission (Terms and Conditions of Tariff) (First Amendment) Regulations, 2025	04.02.2025

Table-3.9

3.5 NLDC Procedures Implemented in Commercial Accounts:

NLDC Procedures as per directions of MoP/CERC during the year 2024-25 are listed below:

Sr. No	NLDC Procedures On	Date of Order
1	Detailed Procedures for Security Constrained Unit Commitment (SCUC), Unit Shut Down (USD), and Security Constrained Economic Despatch (SCED) at Regional Level	16.04.2024
2	Detailed procedure for implementation of the directions to GBSs under Section 11 of Electricity Act 2003	23.04.2024

Table-3.10

CHAPTER -4

Operation, Protection & System Studies Activities

Under the provisions of Section 2(55) of the Electricity Act, 2003, the Government of India established the Western Regional Power Committee through Resolution F. No. 23/1/2004-R&R dated 25 May 2005. The said resolution has subsequently been amended on 29.11.2005, 09.05.2008, and 03.12.2021, along with a corrigendum dated 17.12.2021. As per the extant provisions of the resolution and the Conduct of Business Rules (CBR), WRPC is empowered to constitute Sub-Committees, Task Forces, Ad-hoc Committees and Standing Committees as deemed necessary for efficient discharge of its functions. The level of representation in such committees depends upon the nature of the issues under consideration.

In accordance with its Conduct of Business Rules, WRPC has already constituted the following technical and coordination forums:

- Technical Coordination Sub-Committee (TCC)
- Operation Coordination Sub-Committee (OCC)
- Commercial Sub-Committee (CC)
- Protection Sub-Committee (PC)
- System Study Sub-Committee

These sub-committees facilitate specialized discussions and coordination among constituent utilities on matters pertaining to system operation, planning, protection, and commercial settlement of the regional grid.

During the year, two more Sub-Committees viz. RE Sub-Committee and TeST Sub-Committee were also constituted.

4.1 Constitution of RE Sub-Committee of WRPC

With the Government of India's vision to integrate 500 GW of Renewable Energy (RE) capacity into the National Grid by 2030, the growing penetration of renewable generation in the power system has led to several operational, technical, protection and communication-related challenges. In this context, the need for a dedicated forum to deliberate on issues related to RE integration was recognized.

The 51st WRPC Meeting, held on 11.01.2025, approved the formation of the RE Sub-Committee comprising representatives from MNRE, WRLDC, SLDC/STU, SECI, RE Associations and regional/state RE generators having installed capacity of more than 500 MW.

The Member Secretary, WRPC, acts as the Chairperson of the Sub-Committee and the Superintending Engineer of WRPC Secretariat functions as the Convener. The Sub-Committee deliberates on matters related to RE integration, grid operation, protection schemes, Special Protection Schemes (SPS), planning, commissioning, maintenance, monitoring and regulatory compliances.

4.2 Constitution of Telecommunication, SCADA & Telemetry (TeST) Sub-Committee

In recent years, power sector has witnessed a significant increase in the importance of communication systems, SCADA, telemetry and IT infrastructure for secure and reliable grid operation. Earlier, all communication and IT-related issues were discussed under the Operation Coordination Sub-Committee (OCC). Considering the increasing complexity and volume of communication-related matters and the obligations under IEGC-2023, it was felt necessary to create a dedicated technical forum for this purpose.

During the year, WRPC took a significant institutional initiative to strengthen coordination on communication and information technology related aspects of the regional power system by constituting a dedicated Telecommunication, SCADA & Telemetry (TeST) Sub-Committee. The, 49th meeting of WRPC held on 13 April 2024 at Daman, approved the formation of the TeST Sub-Committee under the chairmanship of Member Secretary, WRPC.

4.3 Publication Of Load Generation Balance Report 2025-26 Of the WR Region

The Load Generation Balance Report (LGBR) presents the month-wise anticipated power supply position for Western regions for the next financial Year. This exercise, based on coordinated outage schedules of generating units and transmission elements of the region, was carried out for the next financial year 2025-26. The report was prepared at the beginning of the year and then, reviewed on a quarterly basis.

The LGBR is discussed in the monthly OCC meeting wherein the state wise Anticipated power Demand & Availability is reviewed, and Generator unit outages & Transmission element outages are discussed. Further, as per the resource adequacy results, states are instructed to take the necessary correction steps to ensure the reliable power supply across the region. The month-wise assessment in the LGBR helps the utilities and stakeholders in the Region in advance planning of power procurement, maintenance scheduling, and management of demand-supply imbalances during the year 2025-26.

4.4 Certification Of Availability of Transmission System

As per the provisions of the tariff regulations and the procedure specified in its Annexure IV, the Transmission System Availability Factor for a given calendar month ("TAF_{Pn}") is required to be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC), and certified by the Member Secretary of the Regional Power Committee of the concerned region. This certification is carried out separately for each AC and HVDC transmission system and grouped according to the sharing of transmission charges.

In accordance with the CERC Tariff Regulations, 2024-29, the monthly and annual availability of 26 Inter-State Transmission Systems (ISTS), including PGCIL (WR), from April 2024 to October 2024, and of 30 ISTS licensees in the Western Region from November 2024 to March 2025 for the year 2024-25, was computed and certified by WRPC.

The monthly availability certificates of some ISTS licensees and PGCIL (WR), as computed and certified by WRPC during FY 2024-25 are illustrated in the charts below:

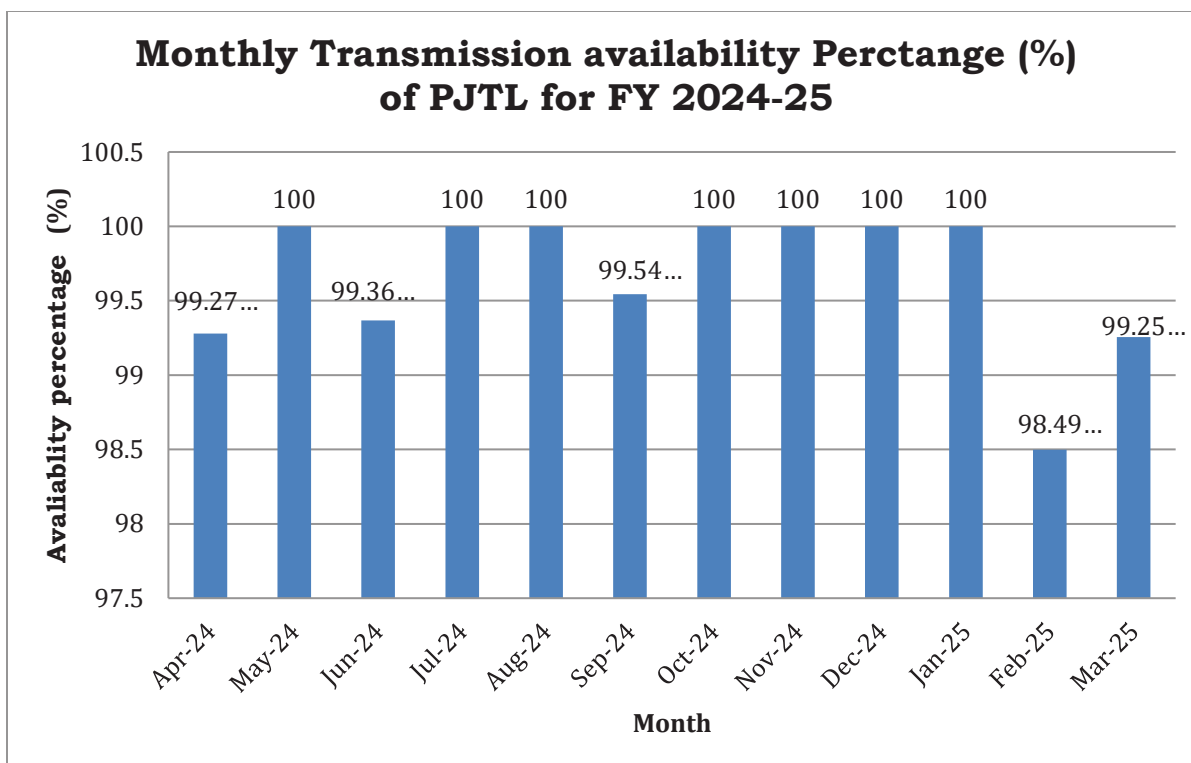


Figure-4.1

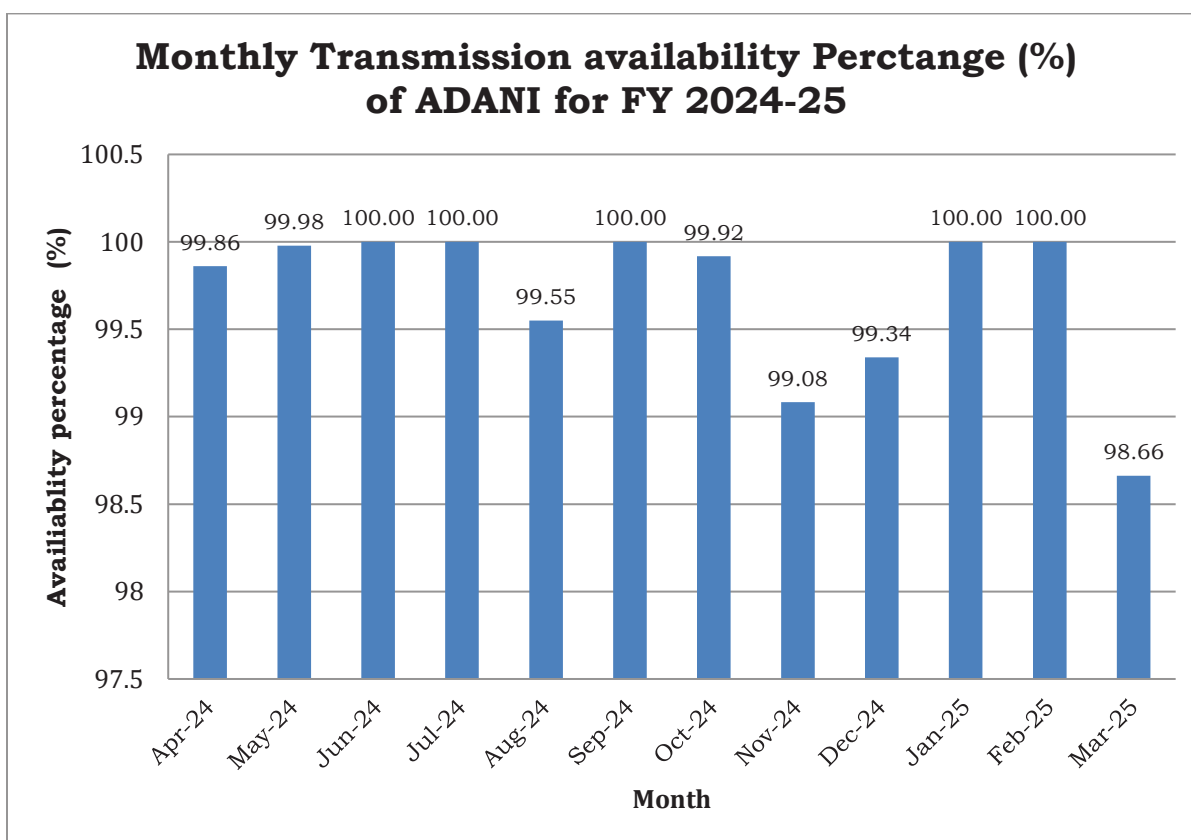


Figure-4.2

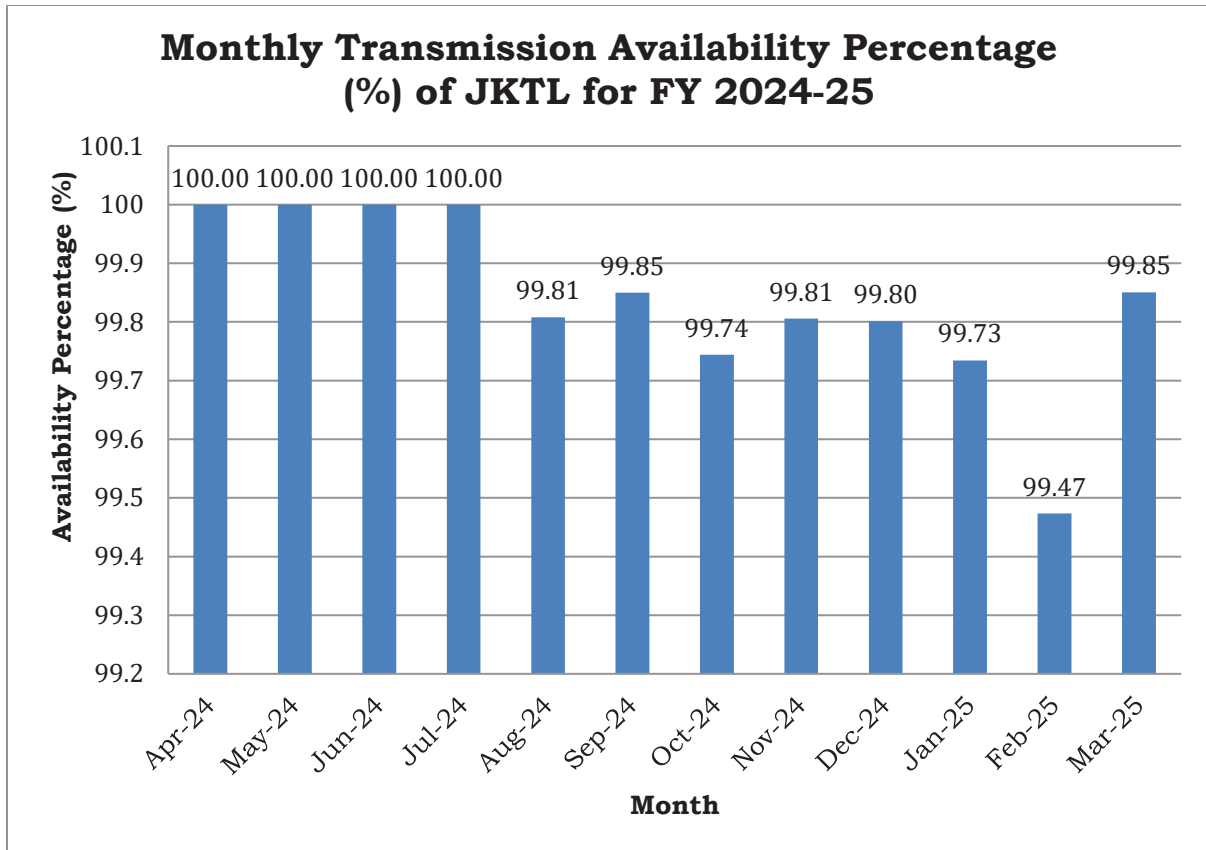


Figure-4.3

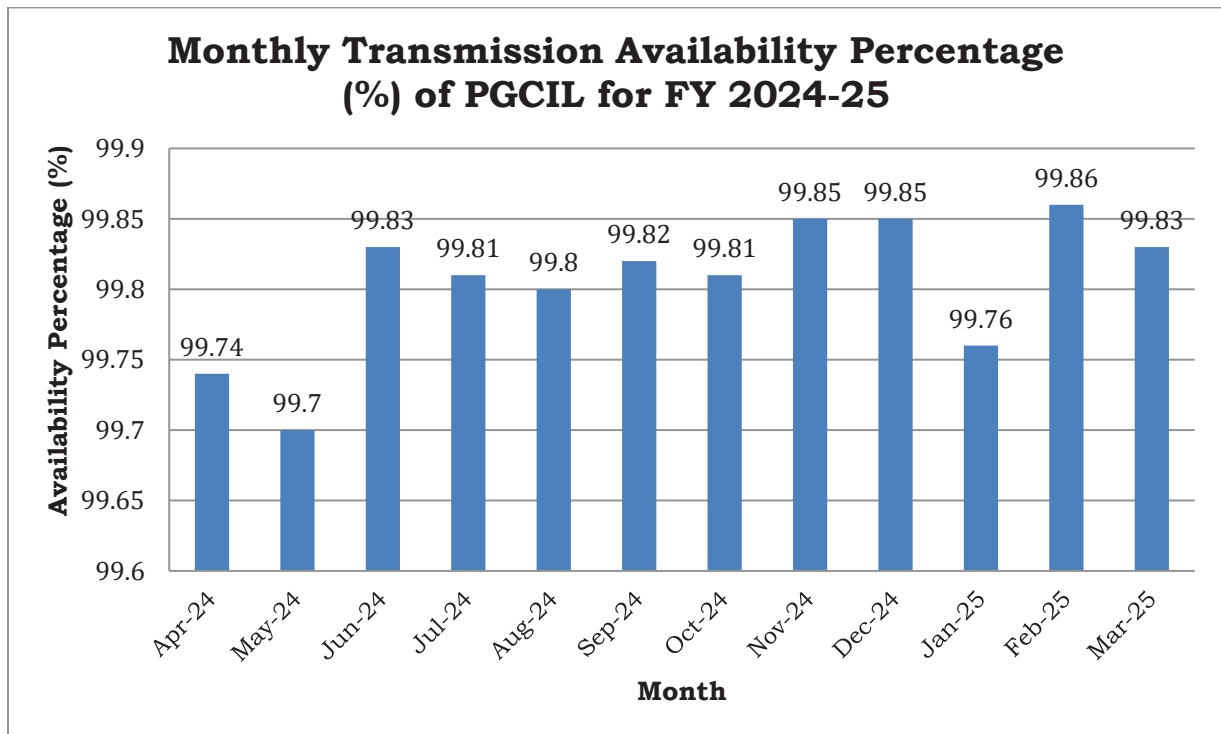


Figure-4.4

4.5 System Protection

The Protection Committee of WRPC met seven times during the year 2024–25. During these meetings, the Committee analyzed system occurrences and trippings in the Western Regional Grid that took place during the period from April 2024 to March 2025. Issues related to revision of protection settings, modification of protection schemes, review of Under Frequency Load Shedding (UFLS) schemes, islanding schemes, and other protection-related matters were deliberated in detail.

During the 157th to 162nd meetings of the Protection Committee held in the financial year 2024–25, the protection performance of utilities in the Western Region and key system protection issues were comprehensively reviewed.

4.6 Special Protection Schemes in Western Region

Due to enhanced complexity of electrical grid with the formation of 'NEWS' grid through addition of interconnectivity & use of high-capacity transmission lines etc., System (Special) Protection Scheme (SPS) has been envisaged for safety & security of integrated grid operation.

SPS is designed to detect abnormal system conditions such as outage of large generating units, high-capacity corridors or HVDC interconnections. SPS preserve the integrity of electric system by using predetermined corrective measures that are simple, reliable, and safe for the system as a whole and provide acceptable system performance against all possible extreme credible contingencies. SPS has also been evolved to prevent system deterioration i.e. to reduce the impact of power failure and ensure early restoration.

The following SPS with their Tripping Conditions and Action to be taken given below has been implemented in Western Region.

Sr. No.	SPS	Tripping Condition	Action
1	CGPL	1. If net export is between 3300 MW to 3500 MW and one double circuit of 400kV CGPL-Bachhau Q/C trips	Manual back down of generation at CGPL may be done if advised by WRLDC, depending on system conditions.
		2. If net export is more than 3500 MW and if one double circuit of 400kV CGPL-Bhachau D/C trips	Manual back down of generation at CGPL may be done if advised by WRLDC,

			depending on system conditions.
2	SASAN	1.If 765kV Sasan-Satna D/C are out and 765kV Sasan Vindhyachal PS D/C in service and any one circuit of 765 kV Sasan-Vindhyachal PS D/C line trips and generation at Sasan is above 3100MW	Trip one Unit immediately and if above condition is still satisfied then manual backing down would be done in real time by instruction from WRLDC
		2. When generation at Sasan is more than 1800MW & all 765 kV circuits from Sasan trips	Trip one Unit followed by tripping of another unit in next 5 second if condition is still satisfied. After tripping of two units, still the condition is satisfied trip the third unit in next 5 seconds. (Generation Ex bus reduces to 1800 MW)
		3. If fault is observed on 765kV Sasan-Satna D/C and if the fault is not cleared within 100msec	Trip one unit and further manual backing down if any, advised by WRLDC.
3	JPL	1. One circuit of 400 kV JPL-Raipur line and 400 kV JPL Stage-I to JPL Stage-II inter connector are out or One of the lines is out of service and other circuit trips.	Ex Bus Generation at JPL Stage-1 to be brought to 590 MW (Trip one unit of 250 MW & 2-Unit of 135 MW along with 60 MW of Generation reduction in 3-4 Minutes.)
		2. Tripping of 765 kV Tamnar-Kotra D/c lines or One circuit on outage and other line trips:	Trip one unit of 600 MW and immediate backing down other unit such that Ex Bus generation of JPL Stage-I + JPL Stage-II should not exceed 1160 MW.
4	SIPAT	1. If ICTs loading exceeds 100 % for 5 seconds.	ALARM
		2. If any ICTs load exceeds 130% of the rated load for more than 4 sec.	Unload unit 1,2,4 and 5 each by 150MW (subject to minimum loading of 500MW in stage-1 units and subject to minimum loading of 350MW in stage-2 units).
		3. If any ICTs load remains above 130% even after unloading unit 1,2,4 and 5.	Unload Unit 3 by 150 MW after 300 sec (subject to minimum loading of 500 MW.

		4.Once the ICT loading reduced below 130%.	Manual action to reduce generation to bring down ICT loading below 100%.
5	APL Mundra	400kV Mundra- Mansar/ Charanka line loading. 1.If any of the circuit loaded above 500MW (715 Amp) for 10 Seconds.	Alarm.
		2. If line loading on these circuits exceeds 600MW (867Amp) for 4 seconds + Availability of any one or both APL-Sami and Sami-Dehgam lines.	200 MW Generation Back down in unit 5 & 6 as per selection in DCS.
		3. If line loading on these circuits exceeds 600MW (867 Amp) for 4 seconds + Non availability of either APL-Sami D/c or Sami Dehgam D/c lines.	300 MW Generation Back down in unit 5 & 6
		400 kV Mundra Versana - & 2-lines loading. 1. If any of the circuit loaded above 600MW (715 Amp) for 10 Seconds.	Alarm
		2. If line loading on these circuits exceeds 750 MW for 4 seconds.	300 MW Generation Back down in unit 5 & 6 as per selection in DCS
		3. If line loading on these circuits exceeds 850 MW after above backdown.	Manual unit tripping shall be intimated by SLDC Gujarat/WRLDC
		400 kV Mundra Sami - & 2-lines loading 1.If any of the circuit loaded above 600MW (715 Amp) for 10 Seconds.	Alarm
		2. If line loading on these circuits exceeds 750 MW for 4 seconds	300 MW Generation Back down in unit 5 & 6 as per selection in DCS.
		3. If line loading on these circuits exceeds 850 MW after above backdown	Manual unit tripping shall be intimated by SLDC Gujarat/WRLDC
		400 kV Mundra Sami - & 2-lines loading 1. If any of the circuit loaded above 500MW (715 Amp) for 10 Seconds.	Alarm

		2. If Line loading on these circuits is more than 650 MW (930Amp) for 15 seconds.	200 -300 MW Generation Reduction at APL in Unit 5-6 as per selection.
		3. If Line loading on these circuits is >700 MW and < 850 MW for 1.5 seconds.	330 MW Generation Back down in unit 5 & 6
		4. If line loading on these circuits >850 MW (1212Amp) for 1.5 seconds	Tripping of Unit 5 or 6 to reduce generation by 660 MW.
		5. If any of the circuit loaded above 500MW (715 Amp) for 10 Seconds.	ALARM
		6. If Line loading on these circuits is more than 750 MW (1070Amp) for 15 seconds.	200 -300 MW Generation Reduction at APL in Unit 3-6 as per selection.
		7. If Line loading on these circuits is > 850 MW (1212Amp) for 2 seconds.	Bypass FSC.
		400 kV Sami Dehgam 1- & 2-Line Loading 1. Both FSC in service with one Dehgam Sami line out and loading on other circuit > 850 MW for 2 second.	Bypass FSC
		2. Both FSC Not in service with one Dehgam-Sami line out and loading on other circuit > 850 MW for 2 second.	Tripping of Unit 5 or 6 as per selection.
		Tripping of 400 kV Mundra-Sami D/C 1. Tripping of 400 kV Mundra-Sami D/c when any one of the lines loaded > 600MW at Mundra end-	Tripping of Unit 5 or 6 based on selection.
		2. Tripping of 400 kV Sami-Dehgam D/c when any one of the lines loaded > 600MW at Sami end-	Tripping of Unit 5 or 6 based on selection
		220kV Mundra Nanikhakar D/C and Mundra Tappar D/C Line Loading 1. Loading on any of the line above 195MW (500 Amp) for 5 Sec.	Alarm to operator.
		2. Loading on any of the line above 235MW (605 Amp) for 5 Sec.	Generation backing down in Unit-1 & 2.

		3. Loading on any of the line above 275MW (737 Amp) for 2 Sec.	To reduce generation by 330 MW (as per selection)
6	HVDC Mundra-Mohindargarh	1. If total generation at APL Mundra is above 3500MW & Loss of both Poles of HVDC Mundra Mohindergarh:	If all units are running then trip one unit of APL Mundra Stage 4 (i.e from Unit-7, 8, 9)
7	APML Tiroda	400 kV Tirora-Warora Line Overloading 1. 400kV Tirora-Warora one circuit loading > 1020 MW for 3 second.	ALARM
		2. 400 kV Tirora –Warora one circuit loading > 1200 MW for 3 second.	Back down of 300 MW in selected Unit.
		3. 400 kV Tirora –Warora one circuit loading > 1480 MW for 0.6 second.	Action: Tripping of one selected Unit
		4. 400 kV Tirora –Warora one circuit loading > 1480 MW for 0.8 second	Tripping of another selected Unit
		765/400 kV 1500 MVA Akola (2) ICT overloading 1. If the ICT loading > 1450 MW for 2.5 second.	Back down by 400MW on selected units at Tirora.
		2. If the ICT loading > 1800 MW for 1.1 second.	Trip one selected unit at Tirora.
		3. If the loading > 2200 MW for 0.5 second.	Trip one selected unit at Tirora.
		765/400 kV 1500 MVA APML Tirora ICT Overloading 1. If the ICT loading > 1450 MW for 3 second.	Back down generation on selected unit.
		2. If the ICT loading > 1750 MW for 15 second.	Trip one selected unit.
		APML Tirora Plant Stability 1. Power Swing in one 400 kV line with Tripping of other 400 kV line. Or 2. Tripping of any 400 kV line and detection of PSB on 765 kV line. Or 3. Tripping of 765 kV line with detection of PSB in any of 400 kV line	Tripping of one selected unit on 400 kV side.
8	High frequency	1. Automatic generation tripping in Western Region at high	

		frequency (51.5 Hz) to help arresting the rise of frequency in case of islanding of WR from rest of NEW grid after delay of 30 seconds: Korba Unit 7, Vindhyachal Unit 7, CGPL Unit 40	
9	AMNSIL	1. OFF' position of 400 kV side breaker of ICT's "OR" ICT's 220 kV, side current of ICTs more than 1100 ampere	Tripping of running Furnace's at AMNSIL Plant-1 and 2 (Around 200 250 MW).
10	KSK Mahanadi	1. If Generation at KSK is more than 1682 MW and one circuit of 400 kV KSK-Champa D/c trips	Trip one-unit KSK Mahanadi
11	EPGL	1. If one circuit of 400 kV EPGL Vadinar-Hadala line trips & generation at EPGL is more than 730 MW	One EPGL unit will trip
12	MEL	1. Power Swing Detected in any Line -Based on Detection of Power Swing in Impedance reach of configurable Zone (70% of Z1 reach) in 400 kV Line	Tripping of Unit#1 if generation is more than 600 MW
13	765 kV Gwalior-Agra D/c line tripping carrying more than or equal to 3000MW towards NR	1. Sudden reduction of import by NR on Agra-Gwalior I & II by more than or equal to 3000 MW. Total power flow shall be monitored continuously and to be compared with two (2) second past data, if difference is 3000 MW or more then SPS to be triggered.	Generation Backing down in WR of 1000 MW- CGPL: 250 MW, Korba: 250 MW. Vindhyachal: 250 MW SASAN:250 MW Load Shedding in NR: Shed load of group C, D, E and F
14	765 kV Gwalior-Agra D/c line overloading	1. When both 765 kV Agra-Gwalior Lines are in service, steady state flow crosses 4000 MW Total in West to North for more than 10 seconds.	In Northern Region: Shed load of group C and D
15	765 kV Gwalior-Agra S/c line overloading	1. When only one 765 kV Agra-Gwalior Line is in service, steady state flow crosses 3000MW total In West to North for more than 5 seconds	In Northern Region: Shed load of group C and D

Table-4.1

4.7 Major Grid Disturbance in Western Regional Grid.

There was one major grid disturbances (affecting two or more states) in the Western Regional Grid during the year 2024-25. The summary of various Grid incidents/ disturbances in WR for the year 2024-25 is given on **Annexure-4.7.1.**

Summary of the Major Grid disturbance occurred on 12.03.2025 in Gujarat:

On the afternoon of 12th March 2025, South Gujarat experienced a critical grid disturbance due to high electricity demand and limited generation availability, as several gas-based units were under reserve shutdown. At around 14:50 hrs, the 400 kV Asoj-Kosamba S/C line tripped due to a Y-phase to ground fault followed by failed auto-reclosing. Subsequently, five additional 400 kV lines tripped due to protection maloperation at Jhanor and Pirana (Torrent) substations, leading to severe voltage collapse in the 400 kV and 220 kV networks.

Between 14:50 and 15:37 hrs, the system entered an emergency condition, resulting in cascading tripping of several 220 kV lines between Central and South Gujarat. Generating units at KAPS (Stages I & II), SLPP, Ukai Thermal, and TAPS Stage-II (Unit-3) also tripped due to voltage-related protections. The Load Trimming Scheme at 400 kV Padghe (Maharashtra) was activated to manage power flow toward South Gujarat.

The disturbance led to supply outages at eight 400 kV and forty-two 220 kV substations. Load curtailment of 1514 MW in Maharashtra and 174 MW in Gujarat occurred through system protection schemes, along with manual load relief of 1832 MW in Maharashtra and 150 MW in Dadra & Nagar Haveli. Overall, around 4900 MW of demand in South Gujarat and 450 MW of AM/NS India load was curtailed, while approximately 2800 MW of generation went offline, including units at KAPS, TAPS Stage-II, Ukai TPS, Ukai HPS, and SLPP. Grid operators, including WRLDC and SLDCs of Maharashtra and Gujarat, had undertaken several preventive voltage control measures prior to the incident due to the low voltage profile observed since morning.

To ascertain the root cause of the disturbance and recommend remedial measures, WRPC constituted a Group to enquire into the grid disturbance.

4.8 The details of the existing Islanding schemes as on 31.03.2025 is given as below:

Sl. No.	Islanding Scheme	Generation Available	Frequency Setting	Key Features
1	Mumbai Islanding Scheme (TPC & AEML)	~1877 MW (TPC: 1377 MW – Thermal 930 MW + Hydro 447 MW; AEML Dahanu: 500 MW)	Islanding at 47.9 Hz with pre-load shedding at 48.4 Hz	Designed to maintain Mumbai supply during grid disturbance. Two-stage load trimming scheme. Hydro stations assist in fast restoration. Around 50% of Mumbai peak demand (~3800 MW) covered by embedded generation.
2	Uran GTPS Islanding Scheme – Maharashtra	Approx. 336 MW (GTPS Units)	Local Islanding setting- 47.6 Hz Area Islanding setting- $df/dt=0.6$ Hz/sec, (Base freq 48.5 Hz) with time delay 500 ms or Under freq 47.9 Hz with time delay 100 ms	Two-stage scheme: Area Islanding (Stage-I) followed by Local Islanding (Stage-II) if disturbance persists.
3	Ahmedabad (AEEO Sabarmati) Islanding Scheme – Gujarat	~362 MW (AEEO Sabarmati TPS Units D, E, F)	Islanding at 48.5 Hz with $df/dt=0.5$ Hz/sec OR 47.8 Hz with 0.15 sec delay	PLC-based logic for load shedding and generator tripping depending on import/export conditions. Automatic load shedding from prioritized substations.
4	Sugen Islanding Scheme – Surat, Gujarat	~1147.5 MW (3 × 382.5 MW gas units)	Sequential islanding starting at 48.5 Hz	Opening of Sugan-Kim and other 400/220 kV lines to form island with Surat city load.
5	KAPS-1 & 2 Islanding Scheme – Kakrapar	220 MW Nuclear generation (KAPS either 1 or 2)	Island formation at 48.2 Hz	Load shedding initiated at Vapi at 48.6 Hz, followed by breaker tripping and island formation. Units operate in island/house load mode through selector switch logic.

6	KAPS-3 & 4 Islanding Scheme (Under Implementation)	700 MW Nuclear generation (KAPS Stage-either 3 or 4)	Island formation at 48.2 Hz	Multi-stage scheme with load curtailment in DNH and sequential tripping of 220 kV and 400 kV lines to form island. Additional load shedding stages at 48.0 Hz and 47.8 Hz.
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Table-4.2

The status of the Existing Islanding schemes as on 31.03.2025 is given as below:

SI. No	Name of Islanding Scheme	Progress of the Scheme	Review of changes if any	Healthiness of the Battery	SCADA Visibility
1	Mumbai Islanding Scheme	In-Service	No operational constraints were found.	Healthy	Partly Visible
2	Uran Islanding Scheme	In-service	No modification is required and no operational constraint was found.	Healthy	Partly Visible
3	Ahmedabad City Islanding Scheme	In-service	No modification is required and no operational constraint was found.	Healthy	Partly Visible
4	KAPS 1&2 Islanding Scheme.	In-service	No modification is required and no operational constraint was found	Healthy	Partly Visible
5	KAPS 3&4 Islanding Scheme.	Under Implementat ion	-	Healthy	Under implementa tion
6	Sugen Islanding Scheme	In-service	No modification is required and no operational constraint was found.	Healthy	Partly Visible

Table-4.3

4.9 Status of New Islanding schemes

In view of a partial blackout in Mumbai on 12th Oct 2020 at 10:05 Hrs., the Hon'ble Cabinet Minister (Power, New & Renewable Energy), GoI, conducted several meetings with MoP/NPC/RPC for the formulation of New Islanding Schemes in all India grid. Subsequently, the state utilities of WRPC have formulated the following 5 nos. of new islanding schemes:

Sr No	Name of Islanding Scheme	Name of Generating Station	Generation in MW	Load in MW	State	Status
1	Nagpur	Khaparkheda TPS	4x210=840	500-600	Maharashtra	PSDF Grant Approved
2	Jamnagar	Sikka	2x250=500	300-700	Maharashtra	PSDF Grant Approved
3	Bhuj (Anjar Kukma)	APL	2x300=600	510	Gujrat	PSDF Grant Approved
4	Jabalpur	Amarkantak TPS	U-5: 210	170-190	Madhya Pradesh	PSDF Grant Approved
5	Raipur	Marwa (W) TPS	2x500 =1000	330	Chhattisgarh	PSDF Grant Approved

Table-4.4

4.10 Third-Party Protection Audit (TPPA)

WRPC implemented a Third-Party Protection Audit (TPPA) plan covering 77 substations of 400 kV and above in the Western Region, including 220 kV substations in Goa. As of March 2025, 41 audits were completed, and the audit reports were reviewed in the WRPC/TCC meetings for follow-up action.

State	Number Of Substations			
	State Owned	Audited	To Be Audited	IPPs
Maharashtra	34	0	34	13
Chhattisgarh	7	0	7	15
MP	20	0	20	10
Gujrat	24	13	11	16
GOA (220kV)	5	0	5	0
TOTAL to be Audited			77	54

Table-4.5

Substation Located in	Audit Teams From					
	Maharashtra	Chhattisgarh	MP	GUJRAT	GOA	TOTAL
Maharashtra	0	7	11	11	5	34
Chhattisgarh	3	0	4	0	0	7
MP	20	0	0	0	0	20
Gujrat	6	0	5	0	0	11
GOA	5	0			0	5
TOTAL	34	7	20	11	5	77

Table-4.6

4.11 Under Frequency Relays

4.11.1 Relief quantum at each stage of AUFLS for the year 2025-26

A Task Force was constituted by NPC vide letter dated 25.08.2023 for the implementation of AUFLS and df/dt schemes under the chairmanship of the Member Secretary, SRPC, with members from NPC, RPCs, and Grid-India. The Task Force convened a meeting on 11.09.2023 and subsequently submitted its report to NPC in the 14th NPC meeting held on 05.02.2024. The report was approved in the 14th NPC meeting, and it was decided that the recommendations shall be taken up for implementation by the RPCs.

Accordingly, NPC Secretariat, CEA has communicated the new relief quantum for each region (based on Regional Peak Demand Met during the previous year) for implementation in the upcoming Financial Year (FY). The same was deliberated in the 158th PCM of WRPC, and the revised load relief quantum for Automatic Under Frequency Load Shedding (AUFLS) is as follows:

Distribution of new Target (MW) to States & UT of WR						
State/UT	Peak Demand	49.4 Hz	49.2 Hz	49.0 Hz	48.8 Hz	Total
Gujarat	24544	1113	1335	1558	1558	5564
Madhya Pradesh	18252	828	993	1159	1159	4138
Chhattisgarh	6148	279	334	390	390	1394
Maharashtra	28969	1313	1576	1839	1839	6567
Goa	776	35	42	49	49	176
DNHDD	1327	60	72	84	84	301
Total	80016	3628	4353	5079	5079	18139

Table-4.7

4.11.2 Inspection Of Under Frequency Relays (UFR)

The Enquiry Committee constituted by the Ministry of Power (MoP) following the major grid disturbances of 30th and 31st July 2012 recommended in its report (Para 9.3) that the proper functioning of defence mechanisms such as UFR, etc., should be ensured. Further, as per Clause 5.2(n) of the IEGC, the RPC Secretariat is required to carry out periodic testing of UFR relays. Accordingly, the Annual plan for the UFR Inspections has been prepared and the inspections has been carried out by the teams of WRPC Secretariat. The status of UFR inspections carried out during the FY 2024-25 is as follows:

The Status of UFR inspections carried out during the FY 2024-25								
S. No	Utility	Inspection Month	Number of Substations	No of Feeders Tested by WRPC				
				49.4	49.2	49	48.8	Total feeders
1	MPPTCL	May-24	3	10	7	0	18	35
2	GETCO	Aug-24	4	12	19	2	1	34
3	MSETCL	Apr-24	7	1	14	1	6	22
		Jul-24	3	6	3	2	1	12
		Sep-24	18	51	23	27	10	111
		Aug-24	1	0	2	0	3	5
		Dec-24	2	0	1	4	1	6
4	Goa	Nov-24	3	3	2	1	1	7
5	DDDNH	Jul-24	5	4	5	5	6	20
Total			46	87	76	42	47	252

Table-4.8

CHAPTER -5

Implementation Of Official Language

5.1 Introduction

The Secretariat of Western Regional Power Committee has been making all out efforts to implement the Official Language Policy of the Govt. of India. The action taken by WRPC, Mumbai during the year 2024-25 for implementation of the Official Language Policy are as detailed in this Chapter.

5.2 Hindi Training

All the staff concerned has been trained in Hindi language, typing & stenography. Consequently, this office has been notified in the year 1992 in the Gazette of India under Rule No. 10(4) of Official Language Rules, 1976 and specific orders are being issued every year under Rule No. 8(4) of OL Rules, 1976.

5.3 Implementation Of Official Language Policy

This office has been always striving to implement the Official Language Policy of the Govt. of India. Efforts continued during the year 2024-25 also in this direction. Accordingly, maximum of the Office Orders, Circulars etc. were issued bi-lingually. Officials were encouraged to put up noting's in Hindi. Entries in all Service Books and Registers etc. are made in Hindi. The Annual Report for the year 2024-25 was translated in Hindi. In Addition to this, Hindi translation of the generally used English sentences provided by the Department of Official Language under the heading "E-Saral Hindi Vakyakosh" has been circulated so that officers may write noting in Hindi on files easily by using them.

5.4 Meetings Of the Official Language Implementation Committee (OLIC)

In pursuance of Govt. of India Policy, an Official Language Implementation Committee (OLIC) has been constituted in this office with the Member Secretary, WRPC as its Chairman. The Committee holds its meetings regularly every quarter. During the year 2024-25, four meetings of OLIC of the office were held. In these meetings, the Committee reviewed progress of implementation of official language. The Committee discussed and decided on the actions to achieve the targets given in Annual Program, Incentive Schemes

for ensuring the use of Hindi, actions to observe Hindi week and conducting Hindi Diwas etc.

5.5 Incentive Schemes

The Rajbhasha Gaurav Puraskar scheme prescribed by Official Language Department, Ministry of Home Affairs, GOI was implemented in the office during the year 2024-25. It has an objective to encourage writing books originally in Hindi. Under the scheme, the citizens of India are awarded the Rajbhasha Gaurav Puraskar for: -

- i. Writing original books in Hindi on knowledge and science-based subjects.
- ii. Writing original books in Hindi on Forensic Science, Police, Criminology Research and Police Administration.
- iii. Writing original books in Hindi on subjects related to Culture, Religion, Arts and Heritage.
- iv. Writing original books in Hindi in the field of law.

5.6 Hindi Diwas & Hindi Fortnight

"Hindi Fortnight" was observed in the office from 17th September 2024 to 30th September 2024 and "Hindi Diwas" was celebrated on 14.09.2024. Various competitions were organized.

Sr. No.	Competition	Date
1	Hindi Story – 'The Picture Speaks'	17.09.2024
2	Hindi Reading Competition – For 'B' Language Group	19.09.2024
3	Hindi Reading Competition – For 'C' Language Group	19.09.2024
4	Hindi Note Writing and Essay Composition	20.09.2024
5	Memory Test Competition	23.09.2024
6	Speech Competition – For 'A' & 'B' Language Groups	24.09.2024
7	Speech Competition – For 'C' Language Group	24.09.2024
8	Hindi Typing on Computer	25.09.2024
9	Hindi Dictation – For 'B' Language Group	26.09.2024
10	Hindi Dictation – For 'C' Language Group	26.09.2024
11	Essay Writing – For 'A' & 'B' Language Groups	27.09.2024
12	Essay Writing – For 'C' Language Group	27.09.2024
13	Poetry Recitation and Singing Competition	30.09.2024

Table-5.1

Officers and staff participated in these competitions in large numbers.

5.7 Hindi Workshops & Training Programs

Four Hindi Workshops were conducted during the year 2024-25. Apart from this, officers from WRPC, namely Shri Sunny Parmar, Assistant Director-I, and Shri Matta Manoj Reddy, Assistant Director-I, participated in a three-day residential workshop on "RTI, Record Management and 75 Years of Rajbhasha" organized from 10 to 12 June 2024 at Mussoorie, Uttarakhand, by PRB Academy (Parivartan Rajbhasha Academy). The workshop aimed at strengthening awareness and capacity-building in the areas of the Right to Information Act, systematic record management, and effective implementation of Rajbhasha in official functioning, while also commemorating 75 years of Rajbhasha in independent India.

These workshops and training program contributed in enhancing professional competence and proficiency of the official in the use of official Hindi, particularly in administrative and statutory work. It also provided an interactive platform for sharing best practices and experiences with officers from other organizations, thereby supporting the broader objective of promoting Rajbhasha in official correspondence and administration.

मसूरी - पोश एक्ट, प्रिवेंटिव विजिलेंस, ईपीएफ, ईपीएस 1995 आवासीय कार्यशाला
MASSOORIE - RESIDENTIAL WORKSHOP ON POSH ACT, PREVENTIVE VIGILANCE, EPF, EPS 1995
दिनांक : 10-12 जून, 2024

परिवर्तन राजभाषा अकादमी
कार्यालय - 23/672, भूतल, डी.डी.ए. फ्लैट्स, मदनगौर, नई दिल्ली-110062
Tel.: 09899112882, Email : prbacademy19@gmail.com, dpsinghrathore@gmail.com

प्रशस्ति पत्र - 2024

श्री मदन मन्जु रेड्डी, वेस्टर्न रीजिस्ट्रार कार कभेट्री, मुंबई
ने परिवर्तन राजभाषा अकादमी द्वारा दिनांक 10-12 जून, 2024 को आयोजित मसूरी-आवासीय कार्यशाला-2024 में भाग लिया।

इस कार्यशाला में इन्होंने 'पोश एक्ट, प्रिवेंटिव विजिलेंस, ईपीएफ, ईपीएस 1995 आदि विषयों में अत्यन्त कुशल एवं अनुभवी विद्वानों द्वारा प्रशिक्षण प्राप्त किया। इनकी प्रतिभागिता अत्यन्त प्रशंसनीय रही।

अकादमी इनके उज्ज्वल भविष्य की हार्दिक कामना करती है।

दिनांक: 12 जून, 2024
स्थान: मसूरी


(देशपाल सिंह राठौर)
(संस्थापक अध्यक्ष)
गृह मंत्रालय द्वारा नामित सदस्य,
हिंदी सलाहकार समिति,
इसपात मंत्रालय, भारत सरकार



5.8 Participation In Meetings Of TOLIC

WRPC has been actively participating in the activities of Town Official Language Implementation Committee (TOLIC), North Mumbai. During the year 2024-25, meeting of TOLIC was organized on 17.04.2025, in which Member Secretary & senior officers of WRPC participated along with officials of Hindi Section.

5.9 Official Language Inspection

Internal inspections were conducted during the period under reference. It was ensured that entries in service books, office orders, circulars, letters, etc., were issued bilingually, and the same was found to be in line with the provisions of the Official Language Policy.

5.10 Special Achievement

Excellent work in the field: Achieving the targets set under the Official Language Rules-1976 (such as correspondence in areas A, B, C).

Training and Translation: Organizing Hindi workshops quarterly in WRPC office, excellent translation of administrative/technical material into Hindi.

Promotion of Hindi: Initiatives taken to promote the use of Devanagari in the office, such as use of Hindi dictionary and “E-Saral Hindi Vakyakosh” has been circulated so that officers may write noting in Hindi on files easily by using them.

CHAPTER-6

Special Administrative initiatives

6.1 Introduction

During the year, the Administration Division of WRPC took proactive initiatives in planning and organizing various employee-centric, awareness, and official language promotion activities, in addition to coordinating construction and infrastructure-related works at the WRPC office and staff quarters.

6.2 Events

6.2.1 Vigilance Awareness Week

In line with the directions of the Ministry of Personnel, Public Grievances and Pensions dated 28 October 2024, WRPC observed Vigilance Awareness Week from 28 October to 3 November 2024 on the theme “Culture of Integrity for Nation’s Prosperity”. An Integrity Pledge was administered to all officers and staff, reaffirming their commitment to ethical conduct. A quiz competition was also organized to enhance awareness of vigilance-related matters.

6.2.2 Swachhta Pakhwada

In line with the vision of the Hon’ble Prime Minister of India, WRPC observed Swachhta Pakhwada from 16 May 2024 to 31 May 2024. Cleanliness drives, plantation activities, awareness campaigns, slogan and essay writing competitions, and systematic review and weeding out of files and records were carried out with active participation of employees.

6.2.3 Hindi Fortnight 2024

As per the directions of the Rajbhasha Division, Ministry of Home Affairs, Hindi Fortnight-2024 was organized at WRPC, Mumbai from 17 to 30 September 2024. Twelve competitions were conducted for officers and staff to promote the use of Hindi in official work, and prizes were awarded to encourage sustained participation.

6.2.4 Hindi Workshop Training

A three-day residential workshop on "RTI, Record Management and 75 Years of Rajbhasha" was organized from 10 to 12 June 2024 at Mussoorie, Uttarakhand, by PRB Academy (Parivartan Rajbhasha Academy). The workshop aimed at strengthening awareness and capacity-building in the areas of the Right to Information Act, systematic record management, and effective implementation of Rajbhasha in official functioning, while also commemorating 75 years of Rajbhasha in independent India.

Officers from WRPC, namely Shri Sunny Parmar, Assistant Director-I, and Shri Matta Manoj Reddy, Assistant Director-I, participated in the programme. Their participation contributed to enhancing professional competence and proficiency in the use of official Hindi, particularly in administrative and statutory work.

The workshop also provided an interactive platform for sharing best practices and experiences with officers from other organizations, thereby supporting the broader objective of promoting Rajbhasha in official correspondence and administration.

6.2.5 International Day of Yoga

WRPC observed the 10th International Day of Yoga on 21 June 2024 in accordance with the directions of the Ministry of Ayush. The programme emphasized physical and mental well-being, with enthusiastic participation from employees and their families.

6.2.6 Independence Day:

The 79th Independence Day was celebrated with great enthusiasm at the WRPC Staff Quarters in the presence of Sh. Deepak Kumar, Member Secretary, WRPC. Officers, staff, and their families actively participated in the celebrations. Sports and cultural events for children added joy and vibrancy to the occasion.



6.2.7 Republic Day:

The 76th Republic Day was celebrated at the WRPC Staff Quarters in the presence of Sh. Deepak Kumar, Member Secretary, WRPC. The event witnessed enthusiastic participation from officers, staff, and their families. Sports and cultural activities for children were organized, making the celebration lively and memorable.





6.2.8 Sports Day:

National Sports Day was celebrated at WRPC Office with energy, sportsmanship, and unity, honoring the legendary Major Dhyan Chand. The event promoted fitness, teamwork, and the spirit of sports, encouraging all employees to embrace an active lifestyle.





6.3 Construction Activities

During the year Services Division of WRPC played a key role in initiating, coordinating, and monitoring various construction and renovation activities related to the WRPC office premises and staff quarters.

6.3.1 Redevelopment of WRPC Office Building & Transit Office.

The existing WRPC office at MIDC, Andheri East was found structurally unsafe. Initially, a G+1 transit office was proposed at ₹2.75 crore and later revised to a G+2 structure at ₹3.47 crore to accommodate increased staff and a larger conference hall. However, delays in statutory clearances and lack of progress led WRPC, in its 51st (10.01.2025) and 52nd (07.02.2025) meetings, to drop the transit office proposal.

The main office building is now being planned to be constructed under Rule 133(3) of GFR through eligible PSUs, with an estimated cost of ₹50–55 crore, including office and training center/guest house facilities.

The expenditure is planned to be phased over 2025–26 to 2027–28, and project progress will be closely monitored to ensure timely completion.

6.3.2 WRPC Staff Quarters: Upgradation of WRPC Staff Quarters.

The WRPC Staff Quarters at D.N. Nagar, Andheri West, Mumbai, being in a dilapidated condition, was approved for comprehensive redevelopment in the 48th WRPC meeting held on 27.10.2023.

NBCC (India) Limited was engaged as the Project Management Consultant (PMC) through an EOI-cum-RFP process.

The renovation works commenced with a Poojan Ceremony in the presence of the Member Secretary, WRPC.



CHAPTER-7

Meeting held in the financial year 2024–25

To discharge its functions and to ensure better coordination and consensus among WR constituents, regular meetings are held by WRPC Secretariat in which operational, commercial, and other technical matters of common interest to the constituents are discussed. Based on consensus, final decisions are taken. The meetings held during the financial year 2024–25 is detailed in this chapter.

7.1 TCC/WRPC meeting:

During the year 2024-25, Five meetings of WRPC were held wherein operational, commercial, protection, communication and other technical matters of interest, common to the constituents, were discussed. Technical Co-ordination Committee meetings were followed by the WRPC Committee meetings.

7.1.1 49th TCC/WRPC Meeting:

The 49th meeting of the TCC was held on 12th April 2024 under the Chairmanship of Shri Rakesh Shukla, MD, CSPTCL at Daman was followed by the WRPC meeting on 13th April 2024 under the chairmanship of Shri P. Dayanand, Chairman of CSPCL & CSPTCL. the meeting was hosted by Tata Power Company Limited. The list of important decision taken in 49th TCC/WRPC Meeting is as follows:

- New ISTS proposals with an estimated cost exceeding ₹500 crore were recommended for implementation.
 - Transmission System for evacuation of Green Hydrogen/Ammonia potential in Kandla area of Gujarat (Phase-I: 2.465GW)
 - Transmission System for evacuation of Green Hydrogen/Ammonia potential in Mundra area of Gujarat under Phase-I: Part B1 scheme (6 GW at Navinal S/s)
 - Transmission System for evacuation of Green Hydrogen/Ammonia potential in Mundra area of Gujarat under Phase-I: Part B2 scheme (3.5 GW at Navinal-II S/s)

- Approval was accorded to initiate the procurement process for installation of new Interface Energy Meters along with AMR and MDP systems. CTU was advised to approach PSDF again for funding support.
- The proposal for establishment of a State-of-the-Art National Unified Network Management System (N-UNMS) in main and backup configuration, integrating all Regional UNMS for the ISTS communication system, was approved.
- The approach for communication audit of substations was approved.
- Approval accorded for adoption of the SOP for Communication System Outage Planning, finalized by NPC, for the Western Region.
- Under the Reliable Communication Project, deletion and modification of certain approved links were agreed to, except for two links (Essar Hazira–Gandhar and Vadinar–Hadala–Chorania Ranchhodpura).
- Approval accorded for reimbursement of bandwidth charges incurred by PGCIL for hiring the BSNL link between Asoj and WRLDC after 01.10.2022. It was also decided to hire the link for the next five years, and to make annual advance payments.
- The scheme submitted by CTUIL for additional FOTE requirements at AGC locations was approved.
- The scheme submitted by CTUIL for providing a redundant OPGW communication path for Solapur STPP under AGC was approved.
- TCC/WRPC agreed to the recommendations of the special meeting held on 12.03.2024 regarding active and reactive energy accounting of TAPS 1&2, TAPS 3&4, KAPS 1&2, SSP Hydro, and Pench Hydro stations. The meeting concluded that the proposed metering arrangement by WRLDC, involving accounting based on 400 kV outgoing line meters, would introduce significant complexity, require the use of all meters as main meters without standby, and may not fully comply with CEA regulations. Accordingly, it was agreed that the existing GT meter-based methodology under the approved Best Fit Schedule (BFS) should continue. Regarding reactive energy charges, considering SSP's non-commercial nature and limited applicability of IEGC provisions, it was decided to keep REC computation on hold. WRPC will review the methodology further, including consultations with other regions, before arriving at a final decision.
- Approval was accorded for change in philosophy for weekly disbursement of reactive energy charges to WR pool members.

- The metering and accounting arrangement for drawl of construction power for NTPC Lara Stage-II was approved.
- Regarding change in metering methodology for computation of power injection by NTPC Sipat and Sasan, it was recommended that the existing WRLDC arrangement continue until CTU verifies and is satisfied with NTPC's claims.
- The conclusions of CCM on repeated mis-declaration of CTR by GSECL Phase-II were endorsed, with a decision that such requests shall not be entertained in future.
- The scheme for providing a redundant OPGW communication path for the 500 MW NSPCL plant in Chhattisgarh was approved after consent from CSPTCL.





7.1.2 50th TCC/WRPC Meeting:

The 50th meeting of the TCC was held on 23.08.2024 under the Chairmanship of Shri Rakesh Shukla, MD, CSPTCL at Ooty which was followed by the WRPC meeting on 24.08.2024 under the chairmanship of Shri P. Dayanand, Chairman of CSPCL & CSPTCL. The meeting was hosted by NTPC. The list of important decision taken in 50th TCC/WRPC Meeting is as follows:

- Two new ISTS proposals costing more than ₹500 crore were recommended for implementation, with directions to align downstream network timelines and clearly indicate required downstream augmentation in future proposals.
 - Transmission system for Evacuation of Power from RE Projects in Rajgarh (1500 MW) SEZ in Madhya Pradesh-Phase III
 - Transmission system for Evacuation of Power from RE Projects in Neemuch (1000 MW) SEZ in Madhya Pradesh-Phase II
- Constitution of the Telecommunication, SCADA & Telemetry (TeST) Sub-Committee was approved and a separate Sub-Committee for RE was recommended.
- Development of a separate COMWR communication outage portal was dropped as the functionality will be included in the UNMS package; existing offline outage coordination will continue till UNMS implementation.
- As the OPGW on the Bhopal-Indore line forms part of ISTS, operation and maintenance responsibility, including communication assets, rests with BDTCL; OPGW sharing will be decided on a case-to-case basis till CEA guidelines are issued.
- The proposal for establishment of a Security Operation Centre (SOC) at SLDC, Vadodara, Gujarat was recommended for PSDF funding.
- All WR states were directed to strictly adhere to the AUFLS relief quantum decided.
- Third Party Protection Audit by retired professionals was supported, with a need to evolve uniform qualification criteria; commercial terms to be decided by states.
- Compensation claims due to part-load operation and multiple start/stops submitted after the 15th of the following month shall not be considered.
- For DSM settlement during forced outages, the block in which tripping occurs shall be treated as the first block irrespective of tripping time.

- Conclusions of CCM regarding revision of DSM accounts of AWEK4L (300 MW) and AWEK1L (555.5 MW) were agreed.
- Procurement of 500 Interface Energy Meters under the Electricity (Late Payment Surcharge and related matters) Rules, 2022 was approved.
- Hiring of STM-1 link between Dehgam and Jamkhambalia for data communication of Jamkhambalia S/s, associated RE pooling stations, and RIL Jamnagar station was approved.
- Reconductoring and bay equipment replacement to enhance transmission capacity of the 220 kV switchyard at Boisar Substation was approved.





7.1.3 51st TCC/WRPC Meeting:

The 51st meeting of TCC was held on 10.01.2025 under the Chairmanship of Shri Rakesh Shukla, MD, CSPTCL at Jodhpur, Rajasthan which was followed by WRPC meeting on 11.01.2025 under the chairmanship of Shri Rohit Yadav, Chairman of CSPCL & CSPTCL. The meeting was hosted by PowerGrid. The list of important decision taken in 51st TCC/WRPC Meeting are as follows:

- Two new ISTS proposals costing more than ₹500 crore were discussed. The schemes were recommended and states were advised to align their downstream network timelines with CTUIL plans.
 - Transmission system for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I (2500MW)
 - Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line
- Utilization of OPGW laid by M/s Indigrd on the 765 kV Bhopal–Indore line for line protection and ISTS communication was approved.
- Utilization of OPGW laid by M/s Indigrd on the 765 kV Vadodara–Dhule–Aurangabad and 400 kV Dhule–Dhule lines for ISTS communication was approved.
- Installation of OPGW on the existing 765 kV Gwalior–Satna S/c line proposed to be LILOed at Karera Substation was approved.
- DOCO of 765/400 kV ICT-3 at Banaskantha w.e.f. 19.11.2024 was approved.
- Procurement of regional spares for the Western Region was approved.
- WRPC agreed to the revised methodology for declaration of peak and off-peak hours on a monthly basis for the Western Region.
- Constitution of a Renewable Energy Sub-Committee was approved.
- Addition of 1 × 500 MVA ICT along with 400 kV and 220 kV bays at Raipur Substation was approved.
- Construction of 400 kV Substation at Kunkuri (Jashpur) with LILO of existing 400 kV Sipat–Ranchi D/c ISTS line was approved.
- Construction power scheme for NTPC Sipat Stage-III (1 × 800 MW) was agreed.
- Development of a Relay Setting Database for the Western Region was approved.
- Third-Party Protection Audit plan for 400 kV substations in WR (220 kV in Goa) and TPPA plan for 220 kV substations for years 2025–26 was approved.





7.1.4 52nd TCC/WRPC Meeting:

The 52nd meeting of TCC/WRPC was held on 07th February 2025 through online mode. Shri Hemant Jain, Member (GO&D), CEA chaired the meeting. The important decision taken in 52nd TCC/WRPC Meeting are as follows:

- New ISTS Proposal (> ₹500 Crore) for an inter-regional strengthening scheme between the SR Grid and WR Grid, with an estimated cost of ₹1007 crore, submitted by CTUIL and agreed in the 34th Consultation Meetings of SR and WR, was approved by WRPC for taking up at NCT for further deliberation.
- Development of WRPC Main Office: WRPC approved the proposal for construction of the WRPC Office Building at an estimated cost of ₹50–55 crore along with the year-wise phasing plan.

7.1.5 53rd TCC/WRPC Meeting:

The 53rd meeting of TCC/WRPC was held on 13th March 2025 through online mode. Shri Hemant Jain, Member (GO&D), CEA chaired the meeting. The following deliberation took place:

- WRPC approved the ISTS scheme for evacuation of power from Rajasthan REZ Phase-IV (Part-5: 6 GW) – Barmer-II Solar. The scheme was recommended for consideration at NCT.

7.2 NPC meeting:

The 15th meeting of National Power Committee (NPC) was held on 14.11.2024 at Nagpur (Maharashtra) under chairmanship of Ghanshyam Prasad chairperson NPC, CEA. The meeting was hosted by WRPC.





7.3 OCC Meeting:

During the financial year 2024–25, a total of 12 Operation & Coordination Sub-Committee meetings were held on a monthly basis, in which operational issues of the WR Grid were discussed and related decisions were taken. A brief summary of the same is presented below:

Sl. No.	OCCM No.	Date	Venue
1.	578 th	25.04.2024	Mumbai
2.	579 th	22.05.2024	Mumbai
3.	580 th	25.06.2024	Mumbai
4.	581 st	19.07.2024	NTPC Vindhyachal
5.	582 nd	16.08.2024	Mumbai
6.	583 rd	19.09.2024	Mumbai
7.	584 th	21.10.2024	Mumbai
8.	585 th	22.11.2024	Adani Dahanu TPS
9.	586 th	23.12.2024	WRLDC, Mumbai
10.	587 th	24.01.2025	Mumbai
11.	588 th	28.02.2025	Mundra, Tata Power
12.	589 th	21.03.2025	NTPC Gadarwara

7.3.1 581st OCCM held on 19.07.2024 at NTPC Vindhyachal:





7.3.2 585th OCCM held on 22.11.2024 at Adani Dahanu TPS:





7.3.3 58th OCCM held on 24.01.2025 at Mumbai:





7.3.4 588th OCCM held on 28.02.2025 at Tata Mundra:





7.3.5 589th OCCM held on 21.03.2025 at NTPC Gadarwara:





7.4 Commercial committee Meeting:

During the financial year 2024–25, a total of 2 Commercial Sub-Committee meetings were held, in which various commercial issues of the Western Region were discussed and related decisions were taken.

Sl. No.	CCM No.	Date	Venue
1.	91 st	10.07.2024	Mumbai
2.	92 nd	22.10.2024	Mumbai

7.5 Protection Sub Committee Meeting (PCM)

During the financial year 2024–25, a total of six Protection Sub-Committee Meetings (PCM) were held in which protection-related tripping and setting issues of WR Grid users were discussed, and related decisions were taken.

Sl. No.	PCM No.	Date	Venue
1.	157 th	08.05.2024	Mumbai
2.	158 th	24.07.2024	Mumbai
3.	159 th	12.09.2024	Mumbai
4.	160 th	11.10.2024	Mumbai
5.	161 st	24.12.2024	Mumbai
6.	162 nd	07.03.2025	Mumbai

7.6 RE Sub-Committee meetings

During the financial year 2024–25, a total of two RE Sub-Committee Meetings (PCM) were held.

Sl. No.	RE No.	Date	Venue
1.	1 st	21.06.2024/03.07.2024	Mumbai
2.	2 nd	25.10.2024	Mumbai

These meetings focused on reviewing compliance of RE generators with the provisions of the Indian Electricity Grid Code (IEGC) 2023 and the CEA Grid Standards. The various operational, commercial, protection and communication issues related to Renewable Generators were also discussed.

Key areas reviewed during the meetings included compliance with reactive power requirements and the actions taken by RE generators to meet grid requirements, including commissioning of Static VAR Generators (SVGs). The implementation of active and reactive power controls at the Point of Interconnection (POI) was also reviewed.

In addition, the status and plan for annual measurement of power quality parameters such as harmonics, DC current and flicker were discussed. The meetings also reviewed corrective measures to be implemented by RE generators in case of violations of power quality parameters. Compliance with Low Voltage Ride Through (LVRT) requirements and availability of auxiliary power supply for substation auxiliaries at RE generating stations were also examined.

The RE generators were advised to take necessary corrective actions to ensure compliance with the provisions of the CEA Technical Standards for Connectivity to the Grid and the Indian Electricity Grid Code (IEGC). Continuous monitoring and review of these aspects will be undertaken through meetings of the RE Sub-Committee and periodic interactions with RE generating stations.

7.7 Telecommunication, SCADA & Telemetry (TeST) Sub-Committee (TeST)

The TeST Sub-Committee of WRPC reviews issues related to communication infrastructure, performance of SCADA systems, and coordination among stakeholders to ensure seamless information flow across the regional grid.

During the year, 3 meetings of the Telecommunication, SCADA & Telemetry (TeST) Sub-Committee of Western Regional Power Committee (WRPC) were conducted to review communication infrastructure, SCADA performance, and telemetry systems associated with the Western Regional power grid.

Sl. No.	TeST Meeting No.	Date	Venue
1.	10 th	05.07.2024	NTPC Solapur
2.	11 th	20.12.2024	Mumbai
3.	12 th	26.03.2025	Mumbai

These meetings served as an important platform for coordination among transmission utilities, generating stations, system operators, and state utilities to ensure reliable communication systems that support secure grid operations. The committee focused on planning, monitoring, and improving the communication backbone of the power system, which is essential for real-time monitoring, grid control, protection coordination, and operational data exchange.

7.7.1 NTPC Solapur (10th TeST/SCADA held on 05.07.2024):





7.8 Regional Disaster Management Group (RDMG)

Ministry of Power in fulfilment of provisions of Disaster Management Act 2005 has published the “Disaster Management Plan for Power Sector”. It provides a framework and direction to the utilities in the power sector for all phases of the disaster management cycle (i.e. Mitigation, Preparedness, Response and Recovery). It is intended to guide all agencies within the sector with a general

concept of potential emergencies and roles and assignments before, during, and following emergency situations.

The plan envisages a four-tier structure at Central, Regional, State and Local Unit Levels, with intervention and response depending on the severity of the disaster /calamity for effectively dealing with disaster situations in power sector. These four-tier structure dealing with disaster is also mandated to deal with the crisis situations as per “Crisis Management Plan for the Power Sector” issued by Ministry of Power. Regional Level Disaster Management Group (RDGM) is to be chaired by Member Secretary, RPC. Accordingly, the Regional Level Disaster Management Group (RDMG) for Western Region was formulated at regional level.

During the year, WRPC, in coordination with utilities and system operators in the Western Region, convened first meeting of the Regional Disaster Management Group (RDMG) of the Western Region on 12.07.2024. The meetings focused on reviewing the implementation status of disaster management plans across utilities, assessing potential risks to the grid, and developing coordinated mechanisms for emergency response and recovery. Discussions emphasized the need for utilities to adopt a proactive approach to disaster preparedness and integrate risk reduction measures into infrastructure planning and operations.

Annexure

Annexure 1.4.1 & 1.4.2

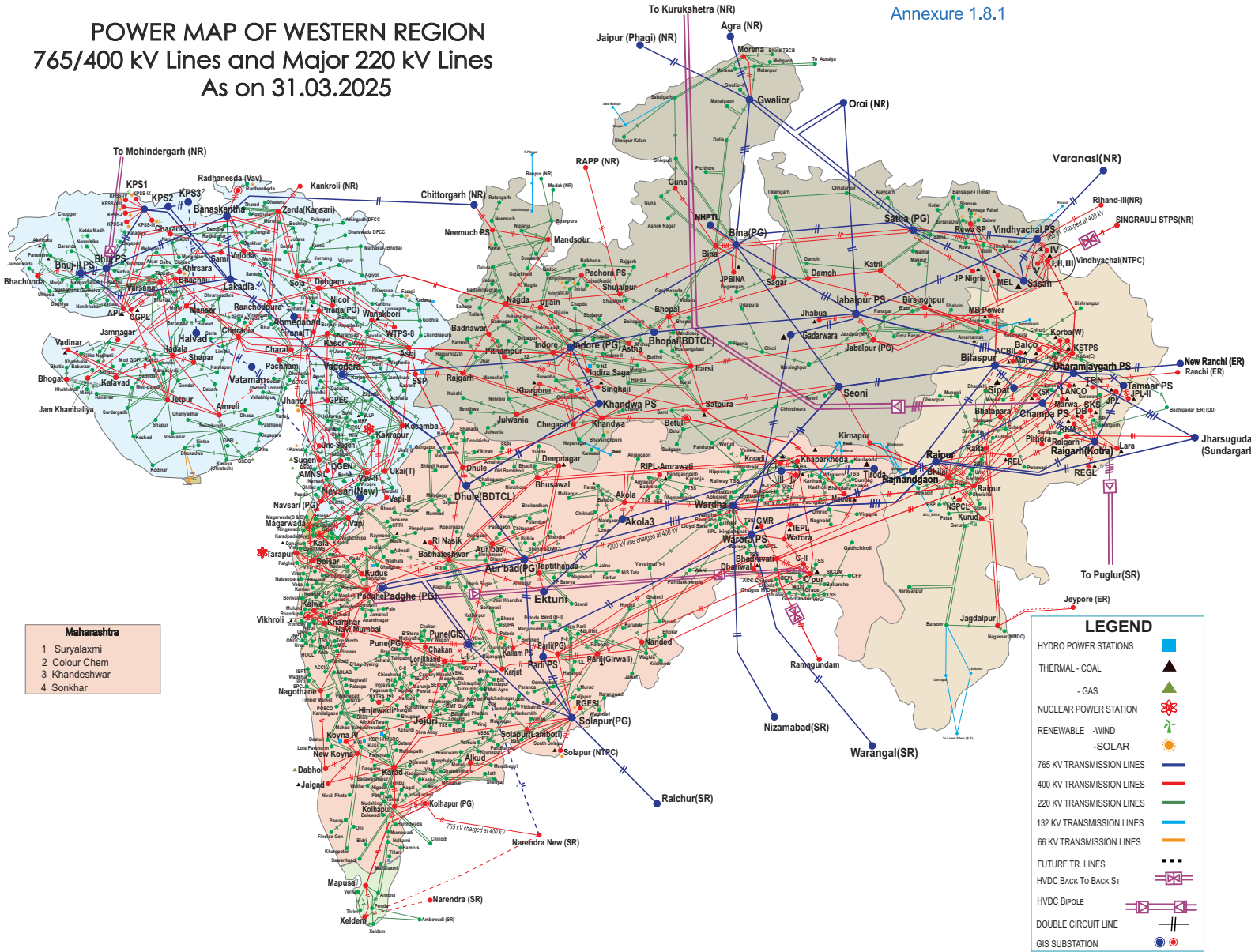
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DISPOSITION REPORT																						
Statement showing Month information in vacant posts/FR 56(a) Holding of Sensitive posts of Subordinate offices of CEA																						
For the month of March, 2025																						
Name of subordinate office/ WRPC CEA Marhata																						
No.	Name of the post	Name of the Incumbent belongs to the post	Pay Level	Number of Posts			Designation & Basic Pay (Pay Scale as per 7th CPC)	Date of Promotion ACP/MACP			CATEGORY					Date of Birth	Date of Joining in CEA	Date of Joining this Subordinate office	Date of completion 50 Yrs (In case of Gr.'B')	Date of Completion of 55 Yrs (In case of Gr.'C')	Date of Holding of Sensitive Posts in this Sub Office	Remarks
				San.	Reg.	Vacant		1st	2nd	3rd	SC	ST	OBC	Ex-Se	Gen							
1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Member Secretary	Deepak Kumar	14	1	1	0	Member Secretary-172200-144200-218200								GEN	25.9.76	31.10.01	3.7.23				Joined as MS I/C on 3.7.23 & MS as on 16.10.23
2	Dir,SR	P.D.Lone	14	3	2	1	S.E. *144200-144200-218200				SC					08.11.71	2.4.07	2.4.07				Promoted as Dir,SE on 01.01.20 *On grant of SAG
3	Dir,SR	D.N.Gawali	14				S.E. *144200-144200-218200				SC					25.11.79	31.05.07	04.06.09				Promoted as Dir,SE on 01.01.20 *On grant of SAG
4	DD/EE	Deepak Sharma	12	6	3	3	EE *78800-78800-209200								GEN	21.10.91	23.2.15	3.2.20				Joined WRPC on 03.02.20 on transfer from CEA, New Delhi. *On grant of NFG
5	DD/EE	Krishna Nand Pal	11				A.S 76300-67700-208700								GEN	11.02.91	04.03.16	30.12.24				Joined on 30.12.24 as DO on transfer from CEA, ND
6	DD/EE	Vidya Sagar Paladugu	11				EE 76300-67700-208700								GEN	21.8.87	10.3.16	10.3.16				
7	AD-I/AEE	Sunny M.Parmar	10	6	4	0	AD-I 61300-56100-177500				SC					11.8.95	21.3.22	21.3.22				*One Additional post of AD-I
8	AD-I/AEE	Shreya Rai	10				AD-I 61300-56100-177500								GEN	13.6.96	21.3.22	21.3.22				
9	AD-I/AEE	Vasantsetti Harresh	10				AD-I 59500-56100-177500						OBC			24.12.97	31.3.23	31.3.23				

10	AD-4/AEE	Matta Manoj Reddy	10					AD-1 57900- 36100- 177500						GEN	25.5.92	18.8.23	18.8.23				Joined as ADM w.e.f. 18.8.23
11	AD-5/AEE	Himanshu Pandey	10					AD-1 56100- 56100- 177500						GEN	25.04.98	17.10.24	17.10.24				Joined as AD-4 w.e.f. 17.10.24
12	AD-5/AEE	Vishal Kumar	10					AD-1 56100- 56100- 177500						GEN	28.09.99	06.11.24	06.11.24				Joined as AD-4 w.e.f. 06.11.24
13	AD-5/AEE	Gire Prashant Dughe	10					AD-1 56100- 56100- 177500						OBC	14.11.95	09.12.24	09.12.24				Joined as AD-1 w.e.f. 09.12.24
14	Asst. Director Gr. II	Dankalp Agrawal	8	2	1	2		AD-11 47600- 47600- 151100						OBC	14.05.98	04.11.24	04.11.24				
14	STO			1	0	1															Vacant posts may please be filled up.
15	STO			1	0	1															Vacant posts may please be filled up.
16	Steno-I			1	0	1															
17	Steno-II	Abha Kumari	4	1	1	0		Steno-II 26300- 25500-84100					SC		29.4.93	5.1.24	5.1.24				
18	UDC	S.G. Rajadhyax	5	1	1	0		UDC 52000- 35000- 112400	12.4.04	12.4.14	12.4.24			GEN	11.1.69	12.4.94	12.4.94				
19	LDC	Tinku Kumar Modi	2	5	2	3		LDC 23800- 19300- 63200					OBC		12.4.97	6.8.18	6.8.18				Vacant posts may pl be filled up vacant since 17.1.14,10.4.15,19.1.16,2.1.17
20	LDC	Vikas	2					LDC 21700- 19800- 63200					GEN	1.1.1996	8.6.22	8.6.22					Vacant posts may pl be filled up vacant since 17.1.14,10.4.15,19.1.16,2.1.17
21	MTS	M.D.Sawant	4	8	1	5		M.T.S. 43500- 29500- 81100	18.5.04	8.5.12	18.5.22			GEN	1.8.67	18.5.92	18.5.92				As per CEA, NO's U. 088 February 2023.
		TOTAL RC		35	19	16															

POWER MAP OF WESTERN REGION
765/400 kV Lines and Major 220 kV Lines
As on 31.03.2025

Annexure 1.8.1



Annexure 2.5.1

Frequency Profile for Apr'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Apr	7.30	65.60	27.10	0.07	34.40	8.26	0.34	50.29	49.78	50.01
2-Apr	7.80	76.30	15.90	0.04	23.70	5.69	0.24	50.25	49.74	49.99
3-Apr	10.10	78.40	11.50	0.05	21.60	5.18	0.22	50.20	49.68	49.98
4-Apr	10.00	79.00	11.00	0.04	21.00	5.04	0.21	50.26	49.73	49.98
5-Apr	11.00	72.00	17.00	0.06	28.00	6.72	0.28	50.38	49.74	50.00
6-Apr	3.10	82.40	14.50	0.03	17.60	4.22	0.18	50.25	49.55	50.00
7-Apr	2.45	80.07	17.48	0.03	19.93	4.78	0.20	50.26	49.78	50.01
8-Apr	1.46	82.16	16.38	0.03	17.84	4.28	0.18	50.24	49.86	50.01
9-Apr	8.99	81.06	9.95	0.04	18.94	4.55	0.19	50.25	49.71	49.98
10-Apr	2.20	84.80	13.00	0.03	15.20	3.65	0.15	50.27	49.81	50.00
11-Apr	5.05	88.83	6.12	0.02	11.17	2.68	0.11	50.14	49.81	49.99
12-Apr	4.00	81.50	14.50	0.03	18.50	4.44	0.19	50.30	49.73	50.00
13-Apr	11.80	72.60	15.60	0.06	27.40	6.58	0.27	50.28	49.74	49.98
14-Apr	7.25	78.24	14.51	0.04	21.76	5.22	0.22	50.34	49.76	50.00
15-Apr	13.20	70.90	15.90	0.07	29.10	6.98	0.29	50.28	49.64	49.98
16-Apr	0.61	82.44	16.95	0.02	17.56	4.21	0.18	50.23	49.85	50.01
17-Apr	3.30	78.60	18.10	0.03	21.40	5.14	0.21	50.30	49.82	50.01
18-Apr	5.80	71.60	22.60	0.05	28.40	6.82	0.28	50.43	49.65	50.01
19-Apr	4.70	71.60	23.70	0.05	28.40	6.82	0.28	50.37	49.79	50.02
20-Apr	5.86	75.25	18.89	0.04	24.75	5.94	0.25	50.28	49.68	50.00
21-Apr	4.90	86.50	8.60	0.03	13.50	3.24	0.14	50.20	49.79	49.99
22-Apr	3.79	79.04	17.18	0.03	20.97	5.03	0.21	50.24	49.78	50.01
23-Apr	0.58	74.05	25.37	0.03	25.95	6.23	0.26	50.24	49.86	50.02
24-Apr	3.82	84.14	12.04	0.03	15.86	3.81	0.16	50.25	49.82	50.00
25-Apr	4.10	82.60	13.30	0.03	17.40	4.18	0.17	50.32	49.80	50.00
26-Apr	2.20	80.60	17.20	0.03	19.40	4.66	0.19	50.20	49.80	50.01
27-Apr	5.20	85.80	9.00	0.03	14.20	3.41	0.14	50.20	49.73	49.99
28-Apr	3.67	74.57	21.76	0.04	25.43	6.10	0.25	50.29	49.82	50.02
29-Apr	1.60	85.00	13.40	0.02	15.00	3.60	0.15	50.17	49.84	50.00
30-Apr	1.70	71.10	27.20	0.04	28.90	6.94	0.29	50.31	49.85	50.02
Max	13.20	88.83	27.20	0.07	34.40	8.26	0.34	50.43(Max)	49.55(Min)	50.00(Avg)
Average	5.25	78.56	16.19	0.04	21.44	5.15	0.21			

Frequency Profile for May'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-May	1.60	81.00	17.40	0.02	19.00	4.56	0.19	50.19	49.82	50.01
2-May	2.00	82.10	15.90	0.03	17.90	4.30	0.18	50.25	49.73	50.01
3-May	1.40	74.20	24.40	0.03	25.80	6.19	0.26	50.22	49.76	50.02
4-May	3.70	83.00	13.30	0.03	17.00	4.08	0.17	50.21	49.78	50.00
5-May	3.80	81.10	15.10	0.04	18.90	4.54	0.19	50.37	49.79	50.00
6-May	4.20	68.90	26.90	0.04	31.10	7.46	0.31	50.22	49.82	50.02
7-May	1.78	69.26	28.96	0.06	30.74	7.38	0.31	50.46	49.81	50.03
8-May	2.93	71.45	25.62	0.03	28.55	6.85	0.29	50.19	49.83	50.01
9-May	2.10	79.10	18.80	0.02	20.90	5.02	0.21	50.18	49.83	50.01
10-May	0.13	75.53	24.34	0.04	24.47	5.87	0.24	50.33	49.87	50.02
11-May	6.80	84.00	9.20	0.03	16.00	3.84	0.16	50.16	49.72	49.99
12-May	6.39	80.75	12.86	0.03	19.25	4.62	0.19	50.17	49.81	49.99
13-May	0.56	78.06	21.38	0.02	21.94	5.27	0.22	50.22	49.88	50.02
14-May	2.00	79.10	18.90	0.03	20.90	5.02	0.21	50.22	49.80	50.01
15-May	2.10	85.40	12.50	0.02	14.60	3.50	0.15	50.17	49.80	50.01
16-May	1.40	89.20	9.40	0.02	10.80	2.59	0.11	50.17	49.85	50.00
17-May	3.30	85.90	10.80	0.02	14.10	3.38	0.14	50.17	49.82	50.00
18-May	3.50	82.30	14.20	0.02	17.70	4.25	0.18	50.16	49.85	50.01
19-May	0.80	85.20	14.00	0.02	14.80	3.55	0.15	50.18	49.86	50.01
20-May	0.42	82.12	17.46	0.02	17.88	4.29	0.18	50.18	49.88	50.01
21-May	2.60	80.30	17.10	0.03	19.70	4.73	0.20	50.20	49.81	50.01
22-May	0.40	84.30	15.30	0.02	15.70	3.77	0.16	50.20	49.86	50.01
23-May	1.92	87.73	10.35	0.02	12.27	2.94	0.12	50.16	49.87	50.00
24-May	2.73	87.42	9.85	0.02	12.58	3.02	0.13	50.17	49.83	49.99
25-May	5.80	82.20	12.00	0.03	17.80	4.27	0.18	50.17	49.84	49.99
26-May	2.20	79.70	18.10	0.02	20.30	4.87	0.20	50.15	49.80	50.01
27-May	2.90	82.80	14.30	0.02	17.20	4.13	0.17	50.20	49.81	50.00
28-May	1.90	76.30	21.80	0.03	23.70	5.69	0.24	50.27	49.82	50.01
29-May	2.60	73.30	24.10	0.04	26.70	6.41	0.27	50.27	49.81	50.01
30-May	1.10	69.80	29.10	0.03	30.20	7.25	0.30	50.23	49.82	50.03
31-May	2.10	79.80	18.10	0.03	20.20	4.85	0.20	50.24	49.84	50.01
Max	6.80	89.20	29.10	0.06	31.10	7.46	0.31	50.46(Max)	49.72(Min)	50.01(Avg)
Average	2.49	80.04	17.47	0.03	19.96	4.79	0.20			

Frequency Profile for June'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Jun	4.05	85.20	10.75	0.03	14.80	3.55	0.15	50.15	49.82	49.99
2-Jun	6.00	88.65	5.35	0.03	11.35	2.72	0.11	50.13	49.68	49.98
3-Jun	4.14	80.01	15.85	0.03	19.99	4.80	0.20	50.18	49.76	50.01
4-Jun	4.03	78.89	17.08	0.03	21.11	5.07	0.21	50.20	49.75	50.01
5-Jun	3.50	69.60	26.90	0.05	30.40	7.30	0.30	50.23	49.80	50.02
6-Jun	2.60	71.60	25.80	0.03	28.40	6.82	0.28	50.24	49.77	50.02
7-Jun	2.10	81.90	16.00	0.02	18.10	4.34	0.18	50.20	49.75	50.01
8-Jun	2.90	90.50	6.60	0.02	9.50	2.28	0.10	50.12	49.77	49.99
9-Jun	7.10	80.20	12.70	0.04	19.80	4.75	0.20	50.18	49.71	49.99
10-Jun	3.60	72.80	23.60	0.03	27.20	6.53	0.27	50.17	49.77	50.02
11-Jun	0.50	73.40	26.10	0.03	26.60	6.38	0.27	50.27	49.86	50.03
12-Jun	0.73	86.24	13.03	0.02	13.76	3.30	0.14	50.15	49.86	50.01
13-Jun	0.40	82.70	16.90	0.02	17.30	4.15	0.17	50.15	49.88	50.01
14-Jun	3.53	79.04	17.43	0.04	20.96	5.03	0.21	50.21	49.76	50.00
15-Jun	16.39	77.95	5.66	0.05	22.05	5.29	0.22	50.14	49.71	49.97
16-Jun	7.90	83.70	8.40	0.04	16.30	3.91	0.16	50.17	49.63	49.99
17-Jun	3.70	83.60	12.70	0.04	16.40	3.94	0.16	50.67	49.77	50.00
18-Jun	1.90	71.60	26.50	0.03	28.40	6.82	0.28	50.22	49.84	50.02
19-Jun	0.10	66.60	33.30	0.03	33.40	8.02	0.33	50.21	49.67	50.03
20-Jun	6.30	71.70	22.00	0.05	28.30	6.79	0.28	50.28	49.81	50.01
21-Jun	4.20	79.70	16.10	0.03	20.30	4.87	0.20	50.26	49.80	50.01
22-Jun	10.00	73.50	16.50	0.04	26.50	6.36	0.27	50.19	49.77	49.99
23-Jun	8.00	76.80	15.20	0.04	23.20	5.57	0.23	50.16	49.71	49.99
24-Jun	8.40	77.80	13.80	0.04	22.20	5.33	0.22	50.20	49.75	49.99
25-Jun	5.80	82.20	12.00	0.03	17.80	4.27	0.18	50.19	49.77	49.99
26-Jun	2.10	79.70	18.20	0.02	20.30	4.87	0.20	50.16	49.86	50.01
27-Jun	2.90	79.00	18.10	0.02	21.00	5.04	0.21	50.16	49.85	50.00
28-Jun	3.22	82.04	14.74	0.03	17.96	4.31	0.18	50.22	49.83	50.00
29-Jun	3.15	84.41	12.44	0.02	15.59	3.74	0.16	50.16	49.77	50.00
30-Jun	5.87	84.17	9.96	0.03	15.83	3.80	0.16	50.19	49.78	49.99
Max	16.39	90.50	33.30	0.05	33.40	8.02	0.33	50.67(Max)	49.63(Min)	50.00(Avg)
Average	4.50	79.17	16.32	0.03	20.83	5.00	0.21			

Frequency Profile for July'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Jul	2.00	77.30	20.70	0.03	22.70	5.45	0.23	50.22	49.84	50.01
2-Jul	5.27	77.08	17.65	0.04	22.92	5.50	0.23	50.26	49.82	50.00
3-Jul	7.30	78.80	13.90	0.04	21.20	5.09	0.21	50.20	49.74	49.99
4-Jul	8.66	79.58	11.76	0.04	20.42	4.90	0.20	50.17	49.77	49.99
5-Jul	11.70	67.70	20.60	0.06	32.30	7.75	0.32	50.24	49.69	49.99
6-Jul	1.83	77.25	20.92	0.05	22.75	5.46	0.23	50.37	49.86	50.02
7-Jul	7.00	81.60	11.40	0.04	18.40	4.42	0.18	50.20	49.71	49.99
8-Jul	4.80	84.50	10.70	0.03	15.50	3.72	0.16	50.22	49.81	50.00
9-Jul	11.90	74.50	13.60	0.05	25.50	6.12	0.26	50.25	49.64	49.99
10-Jul	7.80	73.30	18.90	0.04	26.70	6.41	0.27	50.18	49.76	50.00
11-Jul	3.20	84.00	12.80	0.02	16.00	3.84	0.16	50.14	49.84	50.00
12-Jul	4.20	72.50	23.30	0.03	27.50	6.60	0.28	50.19	49.73	50.01
13-Jul	7.25	70.95	21.80	0.05	29.05	6.97	0.29	50.30	49.79	50.01
14-Jul	6.90	81.60	11.50	0.04	18.40	4.42	0.18	50.19	49.74	49.99
15-Jul	9.00	71.80	19.20	0.04	28.20	6.77	0.28	50.24	49.72	50.00
16-Jul	5.20	78.60	16.20	0.03	21.40	5.14	0.21	50.18	49.73	50.00
17-Jul	7.10	83.90	9.00	0.03	16.10	3.86	0.16	50.10	49.82	49.99
18-Jul	4.50	81.80	13.70	0.03	18.20	4.37	0.18	50.11	49.81	50.00
19-Jul	3.00	88.10	8.90	0.02	11.90	2.86	0.12	50.17	49.84	50.00
20-Jul	10.61	79.54	9.85	0.04	20.46	4.91	0.20	50.10	49.68	49.98
21-Jul	3.03	83.73	13.24	0.02	16.27	3.90	0.16	50.14	49.82	50.00
22-Jul	11.80	72.30	15.90	0.05	27.70	6.65	0.28	50.11	49.64	49.99
23-Jul	3.30	80.60	16.10	0.02	19.40	4.66	0.19	50.16	49.85	50.01
24-Jul	3.10	82.60	14.30	0.03	17.40	4.18	0.17	50.18	49.83	50.00
25-Jul	5.80	75.10	19.10	0.04	24.90	5.98	0.25	50.21	49.64	50.00
26-Jul	3.80	75.10	21.10	0.04	24.90	5.98	0.25	50.33	49.72	50.01
27-Jul	5.50	86.10	8.40	0.03	13.90	3.34	0.14	50.17	49.77	49.99
28-Jul	7.31	80.94	11.75	0.03	19.06	4.57	0.19	50.14	49.77	50.00
29-Jul	10.65	80.21	9.14	0.05	19.79	4.75	0.20	50.18	49.72	49.98
30-Jul	13.40	76.80	9.80	0.05	23.20	5.57	0.23	50.18	49.68	49.98
31-Jul	1.70	73.30	25.00	0.03	26.70	6.41	0.27	50.22	49.82	50.02
Max	13.40	88.10	25.00	0.06	32.30	7.75	0.32	50.37(Max)	49.64(Min)	50.00(Avg)
Average	6.41	78.43	15.17	0.04	21.57	5.18	0.22			

Frequency Profile for Aug'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Aug	2.20	76.50	21.30	0.03	23.50	5.64	0.24	50.21	49.83	50.01
2-Aug	1.90	79.30	18.80	0.03	20.70	4.97	0.21	50.20	49.84	50.01
3-Aug	2.80	66.30	30.90	0.07	33.70	8.09	0.34	50.40	49.80	50.03
4-Aug	4.40	69.30	26.30	0.14	30.70	7.37	0.31	50.39	49.71	50.03
5-Aug	7.10	70.40	22.50	0.04	29.60	7.10	0.30	50.18	49.75	50.00
6-Aug	5.90	75.30	18.80	0.03	24.70	5.93	0.25	50.16	49.68	50.00
7-Aug	6.00	71.30	22.70	0.04	28.70	6.89	0.29	50.22	49.80	50.01
8-Aug	4.00	81.20	14.80	0.03	18.80	4.51	0.19	50.27	49.74	50.00
9-Aug	3.40	77.70	18.90	0.03	22.30	5.35	0.22	50.20	49.74	50.01
10-Aug	4.10	74.70	21.20	0.03	25.30	6.07	0.25	50.16	49.74	50.01
11-Aug	1.80	64.90	33.30	0.09	35.10	8.42	0.35	50.33	49.85	50.04
12-Aug	8.60	79.80	11.60	0.04	20.20	4.85	0.20	50.14	49.65	49.99
13-Aug	21.50	68.90	9.60	0.11	31.10	7.46	0.31	50.13	49.56	49.95
14-Aug	6.90	83.70	9.40	0.05	16.30	3.91	0.16	50.13	49.57	49.99
15-Aug	6.47	71.06	22.47	0.03	28.94	6.95	0.29	50.16	49.79	50.01
16-Aug	3.33	76.26	20.41	0.02	23.74	5.70	0.24	50.13	49.83	50.01
17-Aug	2.70	80.10	17.20	0.03	19.90	4.78	0.20	50.24	49.77	50.01
18-Aug	3.14	78.95	17.91	0.04	21.05	5.05	0.21	50.28	49.82	50.01
19-Aug	5.70	76.30	18.00	0.03	23.70	5.69	0.24	50.24	49.81	50.00
20-Aug	2.72	74.25	23.03	0.03	25.75	6.18	0.26	50.20	49.77	50.02
21-Aug	3.00	78.60	18.40	0.03	21.40	5.14	0.21	50.22	49.82	50.01
22-Aug	5.10	78.60	16.30	0.03	21.40	5.14	0.21	50.20	49.79	50.00
23-Aug	0.30	64.50	35.20	0.04	35.50	8.52	0.36	50.32	49.88	50.04
24-Aug	1.80	82.80	15.40	0.03	17.20	4.13	0.17	50.23	49.85	50.00
25-Aug	1.16	60.87	37.97	0.16	39.13	9.39	0.39	50.38	49.87	50.07
26-Aug	6.53	69.55	23.92	0.05	30.45	7.31	0.30	50.27	49.60	50.00
27-Aug	1.20	78.10	20.70	0.05	21.90	5.26	0.22	50.45	49.84	50.02
28-Aug	3.20	79.20	17.60	0.04	20.80	4.99	0.21	50.27	49.79	50.01
29-Aug	4.60	75.40	20.00	0.05	24.60	5.90	0.25	50.30	49.77	50.01
30-Aug	6.50	78.90	14.60	0.04	21.10	5.06	0.21	50.25	49.81	50.00
31-Aug	6.33	82.71	10.96	0.03	17.29	4.15	0.17	50.11	49.63	49.99
Max	21.50	83.70	37.97	0.16	39.13	9.39	0.39	50.45(Max)	49.56(Min)	50.01(Avg)
Average	4.66	75.01	20.33	0.05	24.99	6.00	0.25			

Frequency Profile for Sep'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Sep	3.60	79.60	16.80	0.06	20.40	4.90	0.20	50.31	49.69	50.01
2-Sep	6.93	78.22	14.85	0.05	21.78	5.23	0.22	50.25	49.62	50.00
3-Sep	5.90	81.10	13.00	0.04	18.90	4.54	0.19	50.14	49.62	49.99
4-Sep	2.60	73.50	23.90	0.04	26.50	6.36	0.27	50.26	49.84	50.02
5-Sep	2.60	74.90	22.50	0.05	25.10	6.02	0.25	50.30	49.85	50.01
6-Sep	6.20	75.50	18.30	0.04	24.50	5.88	0.25	50.25	49.78	50.01
7-Sep	2.70	72.00	25.30	0.03	28.00	6.72	0.28	50.22	49.84	50.02
8-Sep	4.06	67.36	28.58	0.08	32.64	7.83	0.33	50.29	49.81	50.03
9-Sep	3.90	75.70	20.40	0.04	24.30	5.83	0.24	50.25	49.78	50.01
10-Sep	3.70	73.50	22.80	0.06	26.50	6.36	0.27	50.35	49.73	50.02
11-Sep	1.24	86.03	12.73	0.02	13.97	3.35	0.14	50.15	49.88	50.01
12-Sep	1.10	82.30	16.60	0.03	17.70	4.25	0.18	50.27	49.86	50.01
13-Sep	7.00	72.40	20.60	0.05	27.60	6.62	0.28	50.31	49.79	50.00
14-Sep	4.30	72.00	23.70	0.07	28.00	6.72	0.28	50.38	49.77	50.01
15-Sep	1.30	74.40	24.30	0.07	25.60	6.14	0.26	50.32	49.84	50.02
16-Sep	5.68	77.09	17.23	0.04	22.91	5.50	0.23	50.20	49.68	50.00
17-Sep	3.70	83.70	12.60	0.03	16.30	3.91	0.16	50.16	49.79	50.00
18-Sep	15.70	78.10	6.20	0.09	21.90	5.26	0.22	50.15	49.46	49.96
19-Sep	13.00	74.60	12.40	0.07	25.40	6.10	0.25	50.18	49.64	49.98
20-Sep	12.60	76.10	11.30	0.05	23.90	5.74	0.24	50.18	49.65	49.98
21-Sep	6.90	82.90	10.20	0.03	17.10	4.10	0.17	50.18	49.82	49.99
22-Sep	17.55	73.62	8.83	0.07	26.38	6.33	0.26	50.15	49.67	49.97
23-Sep	14.72	73.00	12.28	0.06	27.00	6.48	0.27	50.12	49.65	49.98
24-Sep	3.66	73.69	22.65	0.03	26.31	6.31	0.26	50.14	49.78	50.01
25-Sep	4.60	83.50	11.90	0.03	16.50	3.96	0.17	50.17	49.84	50.00
26-Sep	6.40	76.70	16.90	0.03	23.30	5.59	0.23	50.23	49.79	50.00
27-Sep	5.30	78.60	16.10	0.03	21.40	5.14	0.21	50.19	49.72	50.00
28-Sep	9.40	79.70	10.90	0.04	20.30	4.87	0.20	50.16	49.79	49.98
29-Sep	1.40	84.30	14.30	0.02	15.70	3.77	0.16	50.18	49.86	50.01
30-Sep	4.90	79.70	15.40	0.04	20.30	4.87	0.20	50.21	49.60	50.00
Max	17.55	86.03	28.58	0.09	32.64	7.83	0.33	50.38(Max)	49.46(Min)	50.00(Avg)
Average	6.09	77.13	16.79	0.05	22.87	5.49	0.23			

Frequency Profile for Oct'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Oct	6.40	82.80	10.80	0.03	17.20	4.13	0.17	50.15	49.66	49.99
2-Oct	2.30	75.30	22.40	0.03	24.70	5.93	0.25	50.18	49.75	50.02
3-Oct	1.20	80.40	18.40	0.03	19.60	4.70	0.20	50.20	49.85	50.01
4-Oct	0.60	77.90	21.50	0.03	22.10	5.30	0.22	50.20	49.88	50.01
5-Oct	5.00	78.10	16.90	0.03	21.90	5.26	0.22	50.19	49.81	50.00
6-Oct	9.70	78.20	12.10	0.04	21.80	5.23	0.22	50.19	49.72	49.99
7-Oct	6.55	77.49	15.96	0.03	22.51	5.40	0.23	50.18	49.84	50.00
8-Oct	9.04	83.11	7.85	0.04	16.89	4.05	0.17	50.15	49.70	49.98
9-Oct	0.30	81.30	18.40	0.02	18.70	4.49	0.19	50.18	49.88	50.02
10-Oct	0.58	81.26	18.16	0.02	18.74	4.50	0.19	50.18	49.88	50.01
11-Oct	5.50	79.50	15.00	0.03	20.50	4.92	0.21	50.20	49.82	50.00
12-Oct	7.60	71.30	21.10	0.04	28.70	6.89	0.29	50.22	49.78	50.01
13-Oct	3.16	81.77	15.07	0.03	18.23	4.38	0.18	50.19	49.81	50.00
14-Oct	1.70	81.30	17.00	0.02	18.70	4.49	0.19	50.24	49.84	50.01
15-Oct	11.10	80.70	8.20	0.05	19.30	4.63	0.19	50.19	49.64	49.98
16-Oct	6.50	81.60	11.90	0.04	18.40	4.42	0.18	50.16	49.58	50.00
17-Oct	6.50	80.10	13.40	0.04	19.90	4.78	0.20	50.22	49.60	49.99
18-Oct	0.69	80.68	18.63	0.02	19.32	4.64	0.19	50.17	49.84	50.01
19-Oct	5.38	82.48	12.14	0.03	17.52	4.20	0.18	50.25	49.82	49.99
20-Oct	2.40	76.00	21.60	0.03	24.00	5.76	0.24	50.27	49.75	50.01
21-Oct	9.00	79.50	11.50	0.05	20.50	4.92	0.21	50.12	49.62	49.98
22-Oct	5.06	80.75	14.19	0.03	19.25	4.62	0.19	50.22	49.79	50.00
23-Oct	1.00	79.60	19.40	0.03	20.40	4.90	0.20	50.24	49.81	50.01
24-Oct	7.90	72.70	19.40	0.06	27.30	6.55	0.27	50.37	49.72	50.01
25-Oct	1.60	80.80	17.60	0.04	19.20	4.61	0.19	50.39	49.86	50.01
26-Oct	3.26	85.19	11.55	0.02	14.81	3.55	0.15	50.16	49.82	49.99
27-Oct	3.75	87.99	8.26	0.02	12.01	2.88	0.12	50.19	49.79	49.99
28-Oct	13.10	81.30	5.60	0.07	18.70	4.49	0.19	50.12	49.60	49.97
29-Oct	6.10	83.50	10.40	0.03	16.50	3.96	0.17	50.14	49.82	49.99
30-Oct	3.43	88.04	8.53	0.02	11.96	2.87	0.12	50.15	49.76	49.99
31-Oct	4.19	77.91	17.90	0.03	22.09	5.30	0.22	50.26	49.83	50.00
Max	13.10	88.04	22.40	0.07	28.70	6.89	0.29	50.39(Max)	49.58(Min)	50.00(Avg)
Average	4.86	80.28	14.87	0.03	19.72	4.73	0.20			

Frequency Profile for Nov'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Nov	1.55	78.06	20.39	0.03	21.94	5.27	0.22	50.24	49.82	50.02
2-Nov	1.00	74.80	24.20	0.04	25.20	6.05	0.25	50.32	49.83	50.02
3-Nov	2.90	84.60	12.50	0.03	15.40	3.70	0.15	50.17	49.85	49.99
4-Nov	3.40	81.90	14.70	0.03	18.10	4.34	0.18	50.23	49.80	50.00
5-Nov	7.50	81.40	11.10	0.04	18.60	4.46	0.19	50.26	49.78	49.99
6-Nov	3.20	84.60	12.20	0.02	15.40	3.70	0.15	50.20	49.80	50.00
7-Nov	0.75	83.58	15.67	0.02	16.42	3.94	0.16	50.30	49.80	50.01
8-Nov	7.43	84.22	8.35	0.03	15.78	3.79	0.16	50.18	49.76	49.98
9-Nov	7.70	83.30	9.00	0.03	16.70	4.01	0.17	50.17	49.68	49.99
10-Nov	6.93	78.45	14.62	0.03	21.55	5.17	0.22	50.24	49.79	49.99
11-Nov	12.66	72.98	14.36	0.05	27.02	6.48	0.27	50.16	49.75	49.98
12-Nov	12.00	77.70	10.30	0.05	22.30	5.35	0.22	50.13	49.63	49.98
13-Nov	0.80	84.10	15.10	0.02	15.90	3.82	0.16	50.31	49.86	50.01
14-Nov	5.27	89.16	5.57	0.03	10.84	2.60	0.11	50.17	49.79	49.98
15-Nov	10.50	77.20	12.30	0.05	22.80	5.47	0.23	50.25	49.74	49.98
16-Nov	7.00	79.80	13.20	0.04	20.20	4.85	0.20	50.20	49.68	49.99
17-Nov	6.30	75.50	18.20	0.04	24.50	5.88	0.25	50.25	49.73	50.00
18-Nov	1.92	76.34	21.74	0.03	23.66	5.68	0.24	50.16	49.86	50.01
19-Nov	2.06	83.32	14.62	0.02	16.68	4.00	0.17	50.19	49.86	50.01
20-Nov	1.20	84.10	14.70	0.02	15.90	3.82	0.16	50.22	49.84	50.01
21-Nov	2.40	87.40	10.20	0.02	12.60	3.02	0.13	50.20	49.83	49.99
22-Nov	4.00	80.40	15.60	0.03	19.60	4.70	0.20	50.23	49.72	50.00
23-Nov	4.10	87.00	8.90	0.03	13.00	3.12	0.13	50.30	49.72	49.99
24-Nov	4.10	82.90	13.00	0.03	17.10	4.10	0.17	50.27	49.75	50.00
25-Nov	10.90	75.90	13.20	0.05	24.10	5.78	0.24	50.20	49.64	49.99
26-Nov	9.95	79.07	10.98	0.05	20.93	5.02	0.21	50.25	49.64	49.98
27-Nov	5.41	79.04	15.55	0.05	20.96	5.03	0.21	50.22	49.64	50.00
28-Nov	3.95	79.75	16.30	0.03	20.25	4.86	0.20	50.20	49.77	50.00
29-Nov	6.55	77.85	15.60	0.04	22.15	5.32	0.22	50.25	49.66	49.99
30-Nov	0.96	79.65	19.39	0.03	20.35	4.88	0.20	50.30	49.84	50.01
Max	12.66	89.16	24.20	0.05	27.02	6.48	0.27	50.32(Max)	49.63(Min)	50.00(Avg)
Average	5.15	80.80	14.05	0.03	19.20	4.61	0.19			

Frequency Profile for Dec'2024

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Dec	4.00	77.70	18.30	0.04	22.30	5.35	0.22	50.37	49.79	50.01
2-Dec	2.70	72.10	25.20	0.03	27.90	6.70	0.28	50.18	49.79	50.01
3-Dec	3.60	69.30	27.10	0.05	30.70	7.37	0.31	50.33	49.77	50.02
4-Dec	3.20	81.50	15.30	0.03	18.50	4.44	0.19	50.18	49.78	50.00
5-Dec	4.50	84.20	11.30	0.03	15.80	3.79	0.16	50.24	49.72	49.99
6-Dec	6.78	80.29	12.93	0.04	19.71	4.73	0.20	50.16	49.65	49.99
7-Dec	2.60	81.10	16.30	0.02	18.90	4.54	0.19	50.16	49.77	50.01
8-Dec	3.85	77.28	18.87	0.04	22.72	5.45	0.23	50.34	49.75	50.00
9-Dec	8.10	69.50	22.40	0.05	30.50	7.32	0.31	50.20	49.60	50.00
10-Dec	4.88	78.16	16.96	0.03	21.84	5.24	0.22	50.26	49.75	50.00
11-Dec	3.30	81.90	14.80	0.03	18.10	4.34	0.18	50.15	49.81	50.00
12-Dec	2.40	77.20	20.40	0.03	22.80	5.47	0.23	50.20	49.76	50.01
13-Dec	7.44	77.79	14.77	0.04	22.21	5.33	0.22	50.25	49.76	49.99
14-Dec	7.66	77.27	15.07	0.05	22.73	5.46	0.23	50.35	49.73	49.98
15-Dec	4.60	73.10	22.30	0.05	26.90	6.46	0.27	50.42	49.76	50.00
16-Dec	18.90	65.00	16.10	0.09	35.00	8.40	0.35	50.18	49.51	49.97
17-Dec	7.60	71.60	20.80	0.07	28.40	6.82	0.28	50.21	49.51	50.00
18-Dec	6.47	79.97	13.56	0.04	20.03	4.81	0.20	50.25	49.65	49.99
19-Dec	4.46	78.36	17.18	0.04	21.64	5.19	0.22	50.35	49.73	50.00
20-Dec	8.50	75.90	15.60	0.05	24.10	5.78	0.24	50.28	49.67	49.99
21-Dec	8.90	78.80	12.30	0.04	21.20	5.09	0.21	50.19	49.68	49.99
22-Dec	10.60	76.60	12.80	0.08	23.40	5.62	0.23	50.24	49.49	49.98
23-Dec	7.96	74.65	17.39	0.06	25.35	6.08	0.25	50.27	49.52	49.99
24-Dec	2.50	81.20	16.30	0.03	18.80	4.51	0.19	50.22	49.81	50.00
25-Dec	3.40	79.20	17.40	0.03	20.80	4.99	0.21	50.24	49.80	50.00
26-Dec	9.00	76.45	14.55	0.05	23.55	5.65	0.24	50.27	49.65	49.99
27-Dec	0.27	73.77	25.96	0.03	26.23	6.30	0.26	50.30	49.85	50.02
28-Dec	5.50	76.20	18.30	0.04	23.80	5.71	0.24	50.26	49.76	50.00
29-Dec	3.04	77.23	19.73	0.04	22.77	5.46	0.23	50.28	49.86	50.01
30-Dec	1.48	76.55	21.97	0.03	23.45	5.63	0.23	50.25	49.79	50.01
31-Dec	4.80	70.00	25.20	0.04	30.00	7.20	0.30	50.29	49.74	50.01
Max	18.90	84.20	27.10	0.09	35.00	8.40	0.35	50.42(Max)	49.49(Min)	50.00(Avg)
Average	5.58	76.45	17.97	0.04	23.55	5.65	0.24			

Frequency Profile for Jan'2025

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Jan	3.90	75.30	20.80	0.04	24.70	5.93	0.25	50.30	49.79	50.01
2-Jan	5.90	75.00	19.10	0.05	25.00	6.00	0.25	50.30	49.68	50.00
3-Jan	7.00	76.30	16.70	0.04	23.70	5.69	0.24	50.19	49.67	49.99
4-Jan	9.70	72.90	17.40	0.05	27.10	6.50	0.27	50.18	49.70	49.99
5-Jan	6.85	63.37	29.78	0.07	36.63	8.79	0.37	50.23	49.60	50.01
6-Jan	1.24	68.92	29.84	0.04	31.08	7.46	0.31	50.29	49.86	50.03
7-Jan	1.98	76.25	21.77	0.03	23.75	5.70	0.24	50.25	49.80	50.02
8-Jan	1.60	76.70	21.70	0.03	23.30	5.59	0.23	50.23	49.81	50.02
9-Jan	1.12	78.63	20.25	0.02	21.37	5.13	0.21	50.19	49.82	50.01
10-Jan	7.10	77.90	15.00	0.04	22.10	5.30	0.22	50.24	49.68	49.99
11-Jan	14.60	74.00	11.40	0.07	26.00	6.24	0.26	50.23	49.60	49.97
12-Jan	5.30	70.00	24.70	0.05	30.00	7.20	0.30	50.22	49.67	50.01
13-Jan	5.50	71.00	23.50	0.05	29.00	6.96	0.29	50.24	49.63	50.01
14-Jan	3.50	66.10	30.40	0.04	33.90	8.14	0.34	50.30	49.84	50.02
15-Jan	3.00	82.60	14.40	0.03	17.40	4.18	0.17	50.23	49.83	50.00
16-Jan	2.20	80.10	17.70	0.03	19.90	4.78	0.20	50.21	49.86	50.00
17-Jan	4.70	72.90	22.40	0.04	27.10	6.50	0.27	50.21	49.77	50.01
18-Jan	2.43	82.03	15.54	0.03	17.97	4.31	0.18	50.22	49.85	50.00
19-Jan	1.90	80.60	17.50	0.03	19.40	4.66	0.19	50.27	49.83	50.00
20-Jan	3.40	72.60	24.00	0.04	27.40	6.58	0.27	50.27	49.84	50.01
21-Jan	4.76	77.93	17.31	0.03	22.07	5.30	0.22	50.20	49.76	50.00
22-Jan	6.34	85.05	8.61	0.03	14.95	3.59	0.15	50.18	49.81	49.99
23-Jan	1.10	79.20	19.70	0.03	20.80	4.99	0.21	50.23	49.84	50.01
24-Jan	2.70	80.80	16.50	0.03	19.20	4.61	0.19	50.31	49.81	50.00
25-Jan	6.30	77.50	16.20	0.04	22.50	5.40	0.23	50.18	49.63	49.99
26-Jan	2.50	80.80	16.70	0.04	19.20	4.61	0.19	50.30	49.79	50.01
27-Jan	4.80	80.30	14.90	0.03	19.70	4.73	0.20	50.19	49.80	50.00
28-Jan	11.03	77.33	11.64	0.05	22.67	5.44	0.23	50.18	49.64	49.98
29-Jan	3.70	82.40	13.90	0.03	17.60	4.22	0.18	50.19	49.66	50.00
30-Jan	14.97	69.36	15.67	0.07	30.64	7.35	0.31	50.24	49.64	49.98
31-Jan	10.80	73.60	15.60	0.06	26.40	6.34	0.26	50.25	49.71	49.99
Max	14.97	85.05	30.40	0.07	36.63	8.79	0.37	50.31(Max)	49.60(Min)	50.00(Avg)
Average	5.22	76.05	18.73	0.04	23.95	5.75	0.24			

Frequency Profile for Feb'2025

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Feb	4.10	80.10	15.80	0.03	19.90	4.78	0.20	50.29	49.82	49.99
2-Feb	2.30	82.40	15.30	0.03	17.60	4.22	0.18	50.26	49.79	50.00
3-Feb	6.46	76.48	17.06	0.04	23.52	5.64	0.24	50.23	49.72	50.00
4-Feb	5.75	78.08	16.17	0.03	21.92	5.26	0.22	50.20	49.78	50.00
5-Feb	9.60	74.80	15.60	0.05	25.20	6.05	0.25	50.21	49.60	49.99
6-Feb	2.23	67.92	29.85	0.05	32.08	7.70	0.32	50.33	49.85	50.02
7-Feb	6.15	77.06	16.79	0.04	22.94	5.51	0.23	50.27	49.74	49.99
8-Feb	6.76	77.16	16.08	0.04	22.84	5.48	0.23	50.22	49.68	49.99
9-Feb	5.00	79.00	16.00	0.03	21.00	5.04	0.21	50.25	49.77	50.00
10-Feb	8.13	74.04	17.83	0.05	25.96	6.23	0.26	50.21	49.70	49.99
11-Feb	4.50	79.90	15.60	0.03	20.10	4.82	0.20	50.24	49.80	50.00
12-Feb	6.80	77.70	15.50	0.03	22.30	5.35	0.22	50.21	49.78	49.99
13-Feb	4.70	79.00	16.30	0.03	21.00	5.04	0.21	50.18	49.74	50.00
14-Feb	4.00	75.80	20.20	0.04	24.20	5.81	0.24	50.29	49.80	50.01
15-Feb	4.00	77.90	18.10	0.03	22.10	5.30	0.22	50.25	49.78	50.01
16-Feb	7.80	70.60	21.60	0.05	29.40	7.06	0.29	50.27	49.77	50.01
17-Feb	8.02	75.65	16.33	0.04	24.35	5.84	0.24	50.22	49.79	49.99
18-Feb	6.90	72.70	20.40	0.04	27.30	6.55	0.27	50.25	49.74	50.00
19-Feb	12.10	70.70	17.20	0.09	29.30	7.03	0.29	50.29	49.55	49.98
20-Feb	11.90	72.70	15.40	0.06	27.30	6.55	0.27	50.30	49.55	49.99
21-Feb	9.05	72.63	18.32	0.05	27.37	6.57	0.27	50.23	49.76	49.99
22-Feb	8.50	77.40	14.10	0.04	22.60	5.42	0.23	50.22	49.76	49.99
23-Feb	3.80	78.20	18.00	0.03	21.80	5.23	0.22	50.21	49.80	50.01
24-Feb	2.70	75.20	22.10	0.04	24.80	5.95	0.25	50.33	49.86	50.01
25-Feb	7.50	74.20	18.30	0.06	25.80	6.19	0.26	50.31	49.69	50.00
26-Feb	3.30	70.50	26.20	0.05	29.50	7.08	0.30	50.29	49.76	50.02
27-Feb	7.10	64.50	28.40	0.05	35.50	8.52	0.36	50.30	49.80	50.01
28-Feb	5.63	77.44	16.93	0.05	22.56	5.41	0.23	50.23	49.67	50.00
Max	12.10	82.40	29.85	0.09	35.50	8.52	0.36	50.33(Max)	49.55(Min)	50.00(Avg)
Average	6.24	75.35	18.41	0.04	24.65	5.92	0.25			

Frequency Profile for Mar'2025

Date	Frequency (%)			FVI	(i)	(ii)	(iii)	Frequency (Hz)		
	<49.9	49.9-50.05	>50.05		% of time the frequency remained out of IEGC band	No of hours during which frequency was out of range during the day[(i) x24Hrs]	Daily FDI=(ii)/24	Max.	Min.	Avg.
1-Mar	6.80	75.20	18.00	0.04	24.80	5.95	0.25	50.22	49.75	50.00
2-Mar	3.30	79.50	17.20	0.03	20.50	4.92	0.21	50.26	49.85	50.00
3-Mar	16.16	72.19	11.65	0.06	27.81	6.67	0.28	50.28	49.68	49.98
4-Mar	3.30	68.00	28.70	0.04	32.00	7.68	0.32	50.25	49.71	50.02
5-Mar	3.94	72.63	23.43	0.08	27.37	6.57	0.27	50.46	49.69	50.02
6-Mar	4.70	78.10	17.20	0.04	21.90	5.26	0.22	50.23	49.65	50.00
7-Mar	4.20	76.70	19.10	0.04	23.30	5.59	0.23	50.32	49.72	50.01
8-Mar	6.80	78.70	14.50	0.04	21.30	5.11	0.21	50.23	49.70	49.99
9-Mar	6.20	81.70	12.10	0.04	18.30	4.39	0.18	50.40	49.72	50.00
10-Mar	5.64	69.92	24.44	0.05	30.08	7.22	0.30	50.30	49.79	50.01
11-Mar	7.60	74.80	17.60	0.04	25.20	6.05	0.25	50.17	49.69	50.00
12-Mar	5.31	72.51	22.18	0.00	27.49	6.60	0.27	50.26	49.64	50.01
13-Mar	4.90	74.50	20.60	0.04	25.50	6.12	0.26	50.29	49.73	50.01
14-Mar	6.20	71.30	22.50	0.06	28.70	6.89	0.29	50.42	49.74	50.01
15-Mar	7.10	76.70	16.20	0.04	23.30	5.59	0.23	50.22	49.69	50.00
16-Mar	5.64	79.43	14.93	0.03	20.57	4.94	0.21	50.24	49.78	50.00
17-Mar	4.30	79.40	16.30	0.03	20.60	4.94	0.21	50.21	49.82	50.00
18-Mar	3.60	79.10	17.30	0.03	20.90	5.02	0.21	50.23	49.74	50.01
19-Mar	6.70	82.90	10.40	0.03	17.10	4.10	0.17	50.28	49.77	49.99
20-Mar	8.30	80.10	11.60	0.04	19.90	4.78	0.20	50.20	49.65	49.99
21-Mar	4.30	82.70	13.00	0.03	17.30	4.15	0.17	50.19	49.78	49.99
22-Mar	5.93	76.33	17.74	0.05	23.67	5.68	0.24	50.29	49.63	50.00
23-Mar	0.82	85.53	13.65	0.02	14.47	3.47	0.14	50.22	49.87	50.00
24-Mar	4.40	81.70	13.90	0.03	18.30	4.39	0.18	50.26	49.77	50.00
25-Mar	3.20	83.70	13.10	0.03	16.30	3.91	0.16	50.22	49.78	50.00
26-Mar	2.85	86.42	10.73	0.02	13.58	3.26	0.14	50.28	49.82	50.00
27-Mar	4.90	82.10	13.00	0.03	17.90	4.30	0.18	50.19	49.78	50.00
28-Mar	3.30	81.30	15.40	0.03	18.70	4.49	0.19	50.29	49.79	50.01
29-Mar	4.30	73.30	22.40	0.05	26.70	6.41	0.27	50.30	49.70	50.01
30-Mar	5.28	77.06	17.66	0.06	22.94	5.51	0.23	50.31	49.62	50.00
31-Mar	4.80	81.40	13.80	0.03	18.60	4.46	0.19	50.26	49.76	50.00
Max	16.16	86.42	28.70	0.08	32.00	7.68	0.32	50.46(Max)	49.62(Min)	50.00(Avg)
Average	5.32	77.90	16.78	0.04	22.10	5.30	0.22			

Western Regional Power Committee (WRPC) (Annexure 2.8.1)

Statement Of Monthwise Schedule, Drawal, Under Drawal/Over Drawal and UI Charges in Respect of WR Constituents for the year 2024-2025

All figures in MUs & DSM CHG. in Rs.Lacs

Constituent	Unit	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
AMNSIL_WR State	Schedule (MUs)	196.9119	221.7277	195.4572	174.3395	244.4341	206.0765	268.343	261.8319	258.167	219.811	250.929	301.6011
AMNSIL_WR State	Actual (MUs)	203.8456	236.1178	202.2718	185.6524	256.0985	214.1472	273.7849	273.1138	266.81	235.76	256.354	307.4512
AMNSIL_WR State	UI Charges (Rs.Lacs)	1,144.11	1,276.72	851.53574	979.03139	926.62802	772.52073	613.2388	785.98218	721.284	1178.87	635.02	650.0492
AMNSIL_WR State	UO Drawal (MUs)	-6.9337	-14.3901	-6.8146	-11.3129	-11.6644	-8.0707	-5.4419	-11.2819	-8.6436	-15.954	-5.4252	-5.8501
BALCO_LOAD_WR_State	Schedule (MUs)	375.7491	388.1852	374.1702	390.2051	390.348	378.0101	392.9923	379.8048	393.478	393.322	355.431	393.5132
BALCO_LOAD_WR_State	Actual (MUs)	374.2644	386.825	375.1951	389.765	388.4947	377.891	391.6992	379.1482	391.665	392.954	356.241	394.8875
BALCO_LOAD_WR_State	UI Charges (Rs.Lacs)	-47.53779	-57.49801	224.89408	58.41747	-22.84456	47.63615	-31.73407	32.68219	-55.8477	13.019	51.3005	86.39105
BALCO_LOAD_WR_State	UO Drawal (MUs)	1.4847	1.3603	-1.0249	0.4401	1.8532	0.1191	1.2931	0.6566	1.8128	0.3683	-0.8104	-1.3743
BARC	Schedule (MUs)	6.2819	6.5054	6.2881	6.4743	6.1502	6.3094	6.3957	6.2476	5.3295	3.0958	3.1348	5.7396
BARC	Actual (MUs)	3.1946	3.6813	3.4857	3.5197	3.3434	3.3025	3.3018	3.1275	2.9458	3.006	2.5876	3.191
BARC	UI Charges (Rs.Lacs)	-80.1232	-67.937	-76.37113	-87.6499	-57.99184	-90.56417	-102.78756	-91.96867	-74.5364	-1.9673	-18.6015	-88.9958
BARC	UO Drawal (MUs)	3.0873	2.8241	2.8024	2.9546	2.8068	3.0068	3.0939	3.12	2.3836	0.0898	0.5472	2.5486
CSEB_State	Schedule (MUs)	2,255.77	1,901.85	1,843.55	2,146.10	2,009.74	2,039.23	2,225.96	1,135.77	1,336.13	1,946.46	2,004.55	2,441.23
CSEB_State	Actual (MUs)	2,220.78	1,858.17	1,793.62	2,107.71	1,970.53	2,005.76	2,195.8699	1,123.9132	1,322.6	1,946.81	2,003.96	2,431.061
CSEB_State	UI Charges (Rs.Lacs)	-230.34247	-1,217.37	-1,001.18	-508.73718	-791.49489	-512.81865	-708.33917	-41.52287	-7.19292	1173.33	944.52	515.4878
CSEB_State	UO Drawal (MUs)	34.983	43.6764	49.9304	38.3983	39.2114	33.4694	30.09	11.86	13.53	-0.36	0.58	10.17
DNH&DD_State	Schedule (MUs)	864.0861	921.9811	908.161	926.6913	898.838	902.2179	933.3429	870.2346	930.33	927.956	850.688	927.4727
DNH&DD_State	Actual (MUs)	865.5404	923.4993	907.5812	923.6352	899.3027	900.6841	932.5899	870.3398	930.765	923.682	849.581	925.9226
DNH&DD_State	UI Charges (Rs.Lacs)	206.35688	70.648	-23.96563	-212.97087	-10.30137	-72.81147	-1.04192	61.32974	136.082	-135.74	8.49745	23.53862
DNH&DD_State	UO Drawal (MUs)	-1.4543	-1.5182	0.5798	3.0561	-0.4647	1.5337	0.753	-0.1052	-0.4357	4.2743	1.107	1.5501
GEB_State	Schedule (MUs)	5,134.31	4,724.21	4,630.48	4,365.28	4,495.55	5,290.98	5,649.39	5,985.55	5,619.15	5,748.97	5,348.50	5,718.65
GEB_State	Actual (MUs)	5,086.88	4,667.82	4,597.31	4,269.38	4,409.59	5,250.56	5,585.69	5,969.69	5,543.95	5,677.24	5,287.55	5,610.10
GEB_State	UI Charges (Rs.Lacs)	-1,298.47	-467.30237	-34.05098	-1,241.09	-277.96321	-289.06777	-962.87875	-384.42805	-711.85	-468.99	-1,056.22	-773.469
GEB_State	UO Drawal (MUs)	47.4227	56.3927	33.1669	95.8952	85.9652	40.4171	63.7006	15.8618	75.1954	71.7228	60.9518	108.5534
GOA_State	Schedule (MUs)	358.8632	371.3708	319.9348	340.6582	349.9891	335.7616	376.8522	346.4317	356.258	356.988	346.472	415.2735
GOA_State	Actual (MUs)	361.0346	371.9257	321.1857	346.1786	354.3045	339.5616	380.461	347.9884	359.21	357.659	350.199	417.875
GOA_State	UI Charges (Rs.Lacs)	248.91076	121.59374	168.02408	559.18343	397.45867	320.21232	276.45012	114.41448	288.292	168.815	226.442	174.8175
GOA_State	UO Drawal (MUs)	-2.1713	-0.5549	-1.2509	-5.5204	-4.3154	-3.8	-3.6088	-1.5567	-2.9525	-0.671	-3.7273	-2.6014
MP_State	Schedule (MUs)	4,240.13	4,858.56	4,287.31	4,083.83	3,675.15	3,703.66	4,774.51	5,828.63	6,224.36	6,324.15	6,217.87	5,259.30
MP_State	Actual (MUs)	4,179.93	4,790.58	4,196.35	4,040.11	3,594.69	3,614.93	4,676.164	5,770.8764	6,124.26	6,266.97	6,146.77	5,188.921
MP_State	UI Charges (Rs.Lacs)	-1,062.15	-1,375.38	-3,137.57	-162.57935	-1,241.90	-2,676.52	-2,907.72	-808.14129	-990.828	-145.99	-1,306.45	-826.614
MP_State	UO Drawal (MUs)	60.1957	67.981	90.9595	43.7237	80.4621	88.7274	98.35	57.75	100.11	57.18	71.10	70.38
MSEB_State	Schedule (MUs)	6,210.43	6,131.39	5,548.76	4,844.92	5,561.79	5,077.1242	6,686.03	6,431.76	6,414.72	6,460.70	6,405.08	7,511.28
MSEB_State	Actual (MUs)	6,167.19	6,060.01	5,471.30	4,725.56	5,485.22	5,121.1176	6,802.82	6,553.39	6,503.32	6,537.85	6,420.09	7,583.66
MSEB_State	UI Charges (Rs.Lacs)	1,131.96	-633.71192	-1,426.69	-3,422.93	-655.09039	4458.82459	6,815.33	6,159.14	6,078.08	6,341.00	2,966.62	6,854.63
MSEB_State	UO Drawal (MUs)	43.2473	71.3749	77.4631	119.354	76.5748	-43.9934	-116.7907	-121.6243	-88.6	-77.157	-15.0126	-72.3841
PG_HVDC_WR_STATE	Schedule (MUs)	4.436	4.4669	4.0166	3.6898	4.1939	3.6851	3.4087	4.2403	4.4744	3.8612	3.6303	4.1319
PG_HVDC_WR_STATE	Actual (MUs)	4.0578	4.1817	3.9337	3.6763	3.5186	3.3033	3.4708	2.59	2.9233	2.8445	3.0965	3.8213
PG_HVDC_WR_STATE	UI Charges (Rs.Lacs)	-17.14882	-9.55161	-1.30331	2.73336	-23.01791	-5.9429	6.8207	-49.85368	-50.1529	-36.387	-19.3878	-11.5725
PG_HVDC_WR_STATE	UO Drawal (MUs)	0.3782	0.2852	0.0829	0.0135	0.6753	0.3819	-0.0621	1.6503	1.5511	1.0167	0.5338	0.3105
RILJamnagar_WR	Schedule (MUs)								0.23	37.59	94.69	126.99	183.97
RILJamnagar_WR	Actual (MUs)								0.13	38.35	94.74	126.74	181.61
RILJamnagar_WR	UI Charges (Rs.Lacs)								-1.70	31.78	2.63	-11.65	-90.46
RILJamnagar_WR	UO Drawal (MUs)								0.1021	-0.7631	-0.0476	0.2518	2.3635

Annexure-3.1.1.1

Statement Of Monthwise Schedule, Drawal, Under Drawal/Over Drawal and UI Charges in Respect of WR Constituents for the year 2024-2025

All figures in MUs & DSM CHG. in Rs.Lacs

Constituent	Unit	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
AMNSIL_WR State	Schedule (MUs)	196.9119	221.7277	195.4572	174.3395	244.4341	206.0765	268.343	261.8319	258.167	219.811	250.9291	301.6011
AMNSIL_WR State	Actual (MUs)	203.8456	236.1178	202.2718	185.6524	256.0985	214.1472	273.7849	273.1138	266.81	235.76	256.3543	307.4512
AMNSIL_WR State	UI Charges (Rs.Lacs)	1,144.11	1,276.72	851.53574	979.03139	926.62802	772.52073	613.2388	785.98218	721.284	1178.87	635.01984	650.0492
AMNSIL_WR State	UO Drawal (MUs)	-6.9337	-14.3901	-6.8146	-11.3129	-11.6644	-8.0707	-5.4419	-11.2819	-8.6436	-15.954	-5.4252	-5.8501
BALCO_LOAD_WR_State	Schedule (MUs)	375.7491	388.1852	374.1702	390.2051	390.348	378.0101	392.9923	379.8048	393.478	393.322	355.4309	393.5132
BALCO_LOAD_WR_State	Actual (MUs)	374.2644	386.825	375.1951	389.765	388.4947	377.891	391.6992	379.1482	391.665	392.954	356.2414	394.8875
BALCO_LOAD_WR_State	UI Charges (Rs.Lacs)	-47.53779	-57.49801	224.89408	58.41747	-22.84456	47.63615	-31.73407	32.68219	-55.8477	13.019	51.30047	86.39105
BALCO_LOAD_WR_State	UO Drawal (MUs)	1.4847	1.3603	-1.0249	0.4401	1.8532	0.1191	1.2931	0.6566	1.8128	0.3683	-0.8104	-1.3743
BARC	Schedule (MUs)	6.2819	6.5054	6.2881	6.4743	6.1502	6.3094	6.3957	6.2476	5.3295	3.0958	3.1348	5.7396
BARC	Actual (MUs)	3.1946	3.6813	3.4857	3.5197	3.3434	3.3025	3.3018	3.1275	2.9458	3.006	2.5876	3.191
BARC	UI Charges (Rs.Lacs)	-80.1232	-67.937	-76.37113	-87.6499	-57.99184	-90.56417	-102.78756	-91.96867	-74.5364	-1.9673	-18.6015	-88.9958
BARC	UO Drawal (MUs)	3.0873	2.8241	2.8024	2.9546	2.8068	3.0068	3.0939	3.12	2.3836	0.0898	0.5472	2.5486
CSEB_State	Schedule (MUs)	2,255.77	1,901.85	1,843.55	2,146.10	2,009.74	2,039.23	2,225.96	1,135.77	1,336.13	1,946.46	2,004.55	2,441.23
CSEB_State	Actual (MUs)	2,220.78	1,858.17	1,793.62	2,107.71	1,970.53	2,005.76	2,195.8699	1,123.9132	1,322.6	1,946.81	2,003.9647	2,431.061
CSEB_State	UI Charges (Rs.Lacs)	-230.34247	-1,217.37	-1,001.18	-508.73718	-791.49489	-512.81865	-708.33917	-41.52287	-7.19292	1173.33	944.51952	515.4878
CSEB_State	UO Drawal (MUs)	34.983	43.6764	49.9304	38.3983	39.2114	33.4694	30.09	11.86	13.53	-0.36	0.58	10.17
DNH&DD_State	Schedule (MUs)	864.0861	921.9811	908.161	926.6913	898.838	902.2179	933.3429	870.2346	930.33	927.956	850.6881	927.4727
DNH&DD_State	Actual (MUs)	865.5404	923.4993	907.5812	923.6352	899.3027	900.6841	932.5899	870.3398	930.765	923.682	849.5811	925.9226
DNH&DD_State	UI Charges (Rs.Lacs)	206.35688	70.648	-23.96563	-212.97087	-10.30137	-72.81147	-1.04192	61.32974	136.082	-135.74	8.49745	23.53862
DNH&DD_State	UO Drawal (MUs)	-1.4543	-1.5182	0.5798	3.0561	-0.4647	1.5337	0.753	-0.1052	-0.4357	4.2743	1.107	1.5501
GEB_State	Schedule (MUs)	5,134.31	4,724.21	4,630.48	4,365.28	4,495.55	5,290.98	5,649.39	5,985.55	5,619.15	5,748.97	5,348.50	5,718.65
GEB_State	Actual (MUs)	5,086.88	4,667.82	4,597.31	4,269.38	4,409.59	5,250.56	5,585.69	5,969.69	5,543.95	5,677.24	5,287.55	5,610.10
GEB_State	UI Charges (Rs.Lacs)	-1,298.47	-467.30237	-34.05098	-1,241.09	-277.96321	-289.06777	-962.87875	-384.42805	-711.85	-468.99	-1,056.22	-773.469
GEB_State	UO Drawal (MUs)	47.4227	56.3927	33.1669	95.8952	85.9652	40.4171	63.7006	15.8618	75.1954	71.7228	60.9518	108.5534
GOA_State	Schedule (MUs)	358.8632	371.3708	319.9348	340.6582	349.9891	335.7616	376.8522	346.4317	356.258	356.988	346.4716	415.2735
GOA_State	Actual (MUs)	361.0346	371.9257	321.1857	346.1786	354.3045	339.5616	380.461	347.9884	359.21	357.659	350.1989	417.875
GOA_State	UI Charges (Rs.Lacs)	248.91076	121.59374	168.02408	559.18343	397.45867	320.21232	276.45012	114.41448	288.292	168.815	226.44246	174.8175
GOA_State	UO Drawal (MUs)	-2.1713	-0.5549	-1.2509	-5.5204	-4.3154	-3.8	-3.6088	-1.5567	-2.9525	-0.671	-3.7273	-2.6014
MP_State	Schedule (MUs)	4,240.13	4,858.56	4,287.31	4,083.83	3,675.15	3,703.66	4,774.51	5,828.63	6,224.36	6,324.15	6,217.87	5,259.30
MP_State	Actual (MUs)	4,179.93	4,790.58	4,196.35	4,040.11	3,594.69	3,614.93	4,676.164	5,770.8764	6,124.26	6,266.97	6,146.7675	5,188.921
MP_State	UI Charges (Rs.Lacs)	-1,062.15	-1,375.38	-3,137.57	-162.57935	-1,241.90	-2,676.52	-2,907.72	-808.14129	-990.828	-145.99	-1,306.45	-826.614
MP_State	UO Drawal (MUs)	60.1957	67.981	90.9595	43.7237	80.4621	88.7274	98.35	57.75	100.11	57.18	71.10	70.38
MSEB_State	Schedule (MUs)	6,210.43	6,131.39	5,548.76	4,844.92	5,561.79	5,077.1242	6,686.03	6,431.76	6,414.72	6,460.70	6,405.08	7,511.28
MSEB_State	Actual (MUs)	6,167.19	6,060.01	5,471.30	4,725.56	5,485.22	5,121.1176	6,802.82	6,553.39	6,503.32	6,537.85	6,420.09	7,583.66
MSEB_State	UI Charges (Rs.Lacs)	1,131.96	-633.71192	-1,426.69	-3,422.93	-655.09039	4458.82459	6,815.33	6,159.14	6,078.08	6,341.00	2,966.62	6,854.63
MSEB_State	UO Drawal (MUs)	43.2473	71.3749	77.4631	119.354	76.5748	-43.9934	-116.7907	-121.6243	-88.6	-77.157	-15.0126	-72.3841
PG_HVDC_WR_STATE	Schedule (MUs)	4.436	4.4669	4.0166	3.6898	4.1939	3.6851	3.4087	4.2403	4.4744	3.8612	3.6303	4.1319
PG_HVDC_WR_STATE	Actual (MUs)	4.0578	4.1817	3.9337	3.6763	3.5186	3.3033	3.4708	2.59	2.9233	2.8445	3.0965	3.8213
PG_HVDC_WR_STATE	UI Charges (Rs.Lacs)	-17.14882	-9.55161	-1.30331	2.73336	-23.01791	-5.9429	6.8207	-49.85368	-50.1529	-36.387	-19.38784	-11.5725
PG_HVDC_WR_STATE	UO Drawal (MUs)	0.3782	0.2852	0.0829	0.0135	0.6753	0.3819	-0.0621	1.6503	1.5511	1.0167	0.5338	0.3105
RIJamnagar_WR	Schedule (MUs)									0.23	37.59	94.69	126.99
RIJamnagar_WR	Actual (MUs)									0.13	38.35	94.74	181.61
RIJamnagar_WR	UI Charges (Rs.Lacs)									-1.70	31.78	2.63	-90.46
RIJamnagar_WR	UO Drawal (MUs)									0.1021	-0.7631	-0.0476	0.2518

DSM accounts issued in the FY 2024-25	
Week from 18.03.24 to 24.03.24	issued on 02-04-2024
Week from 04.12.23 to 10.12.23	issued on 04-04-2024
Week from 25.03.24 to 31.03.24	issued on 10-04-2024
Week from 01.04.24 to 07.04.24	issued on 16-04-2024
Week from 01.04.24 to 07.04.24	issued on 22-04-2024
Week from 08.04.24 to 14.04.24	issued on 23-04-2024
Week from 15.04.24 to 21.04.24	issued on 30-04-2024
Week from 22.04.24 to 28.04.24	issued on 07-05-2024
Week from 29.04.24 to 05.05.24	issued on 14-05-2024
Week from 06.05.24 to 12.05.24	issued on 22-05-2024
Week from 29.04.24 to 05.05.24	issued on 22-05-2024
Week from 06.05.24 to 12.05.24	issued on 24-05-2024
Week from 13.05.24 to 19.05.24	issued on 28-05-2024
Week from 20.05.24 to 26.05.24	issued on 04-06-2024
Week from 27.05.24 to 02.06.24	issued on 11-06-2024
Week from 27.05.24 to 02.06.24	issued on 14-06-2024
Week from 03.06.24 to 09.06.24	issued on 18-06-2024
Week from 10.06.24 to 16.06.24	issued on 25-06-2024
Week from 17.06.24 to 23.06.24	issued on 02-07-2024
Week from 24.06.24 to 30.06.24	issued on 09-07-2024
Week from 01.07.24 to 07.07.24	issued on 16-07-2024
Week from 08.07.24 to 14.07.24	issued on 23-07-2024
Week from 15.07.24 to 21.07.24	issued on 30-07-2024
Week from 01.07.24 to 07.07.24	issued on 30-07-2024
Week from 27.05.24 to 09.06.24 (2 weeks)	issued on 30-07-2024

Week from 03.06.24 to 09.06.24 (2 weeks)	issued on 30-07-2024
Week from 27.05.24 to 02.06.24 (2 weeks)	issued on 30-07-2024
Week from 20.05.24 to 26.05.24	issued on 30-07-2024
Week from 08.07.24 to 14.07.24	issued on 06-08-2024
Week from 22.07.24 to 28.07.24	issued on 06-08-2024
Week from 01.04.24 to 07.04.24	issued on 13-08-2024
Week from 29.07.24 to 04.08.24	issued on 13-08-2024
Week from 29.07.24 to 04.08.24	issued on 26-08-2024
Week from 05.08.24 to 11.08.24	issued on 26-08-2024
Week from 05.08.24 to 11.08.24	issued on 02-09-2024
Week from 26.08.24 to 01.09.24	issued on 10-09-2024
Week from 19.08.24 to 25.08.24	issued on 10-09-2024
Week from 12.08.24 to 18.08.24	issued on 10-09-2024
Week from 02.09.24 to 08.09.24	issued on 17-09-2024
Week from 19.08.24 to 25.08.24	issued on 17-09-2024
Week from 02.09.24 to 08.09.24	issued on 20-09-2024
Week from 09.09.24 to 15.09.24	issued on 24-09-2024
Week from 16.09.24 to 22.09.24	issued on 07-10-2024
Week from 23.09.24 to 29.09.24	issued on 08-10-2024
Week from 30.09.24 to 06.10.24	issued on 15-10-2024
Week from 07.10.24 to 13.10.24	issued on 22-10-2024
Week from 30.09.24 to 06.10.24	issued on 25-10-2024
Week from 07.10.24 to 13.10.24	issued on 29-10-2024
Week from 14.10.24 to 20.10.24	issued on 29-10-2024
Week from 21.10.24 to 27.10.24	issued on 05-11-2024
Week from 28.10.24 to 03.11.24	issued on 12-11-2024

Week from 28.10.24 to 03.11.24	issued on 13-11-2024
Week from 04.11.24 to 10.11.24	issued on 19-11-2024
Week from 11.11.24 to 17.11.24	issued on 26-11-2024
Week from 18.11.24 to 24.11.24	issued on 03-12-2024
Week from 18.11.24 to 24.11.24 (Rev1)	issued on 06-12-2024
Week from 11.11.24 to 17.11.24 (Rev1)	issued on 06-12-2024
Week from 25.11.24 to 01.12.24	issued on 10-12-2024
Week from 24.06.24 to 30.06.24 (Rev1- Final Data)	issued on 11-12-2024
Week from 17.06.24 to 23.06.24 (Rev1- Final Data)	issued on 11-12-2024
Week from 10.06.24 to 16.06.24 (Rev1- Final Data)	issued on 11-12-2024
Week from 03.06.24 to 09.06.24 (Rev2- Final Data)	issued on 11-12-2024
Week from 25.11.24 to 01.12.24 (Rev1)	issued on 13-12-2024
Week from 02.12.24 to 08.12.24	issued on 17-12-2024
Week from 02.12.24 to 08.12.24	issued on 20-12-2024
Week from 09.12.24 to 15.12.24	issued on 24-12-2024
Week from 09.12.24 to 15.12.24	issued on 27-12-2024
Week from 16.12.24 to 22.12.24	issued on 31-12-2024
Week from 23.12.24 to 29.12.24	issued on 07-01-2025
Week from 30.12.24 to 05.01.25	issued on 14-01-2025
Week from 23.12.24 to 29.12.24	issued on 14-01-2025
Week from 30.12.24 to 05.01.25	issued on 20-01-2025
Week from 06.01.25 to 12.01.25	issued on 21-01-2025
Week from 13.01.25 to 19.01.25	issued on 28-01-2025
Week from 13.01.25 to 19.01.25	issued on 30-01-2025
Week from 20.01.25 to 26.01.25	issued on 06-02-2025
Week from 27.01.25 to 02.02.25	issued on 11-02-2025

Week from 20.01.25 to 26.01.25	issued on 12-02-2025
Week from 27.01.25 to 02.02.25	issued on 14-02-2025
Week from 03.02.25 to 09.02.25	issued on 18-02-2025
Week from 27.01.25 to 02.02.25	issued on 18-02-2025
Week from 20.01.25 to 26.01.25	issued on 18-02-2025
Week from 26.02.24 to 03.03.24 (REV 1-Final Data)	issued on 19-02-2025
Week from 20.01.25 to 26.01.25 (Revised_2 on 21.02.25)	issued on 21-02-2025
Week from 29.04.24 to 05.05.24 (REV 2-Final Data)	issued on 21-02-2025
Week from 22.04.24 to 28.04.24 (REV 1-Final Data)	issued on 21-02-2025
Week from 15.04.24 to 21.04.24 (REV 1-Final Data)	issued on 21-02-2025
Week from 08.04.24 to 14.04.24 (REV 1-Final Data)	issued on 21-02-2025
Week from 01.04.24 to 07.04.24 (REV 4-Final Data)	issued on 21-02-2025
Week from 25.03.24 to 31.03.24 (REV 1-Final Data)	issued on 21-02-2025
Week from 18.03.24 to 24.03.24 (REV 1-Final Data)	issued on 21-02-2025
Week from 11.03.24 to 17.03.24 (REV 1-Final Data)	issued on 21-02-2025
Week from 04.03.24 to 10.03.24 (REV 2-Final Data)	issued on 21-02-2025
Week from 10.02.25 to 16.02.25	issued on 25-02-2025
Week from 17.02.25 to 23.02.25	issued on 05-03-2025
Week from 17.02.25 to 23.02.25	issued on 10-03-2025
Week from 03.02.25 to 09.02.25	issued on 10-03-2025
Week from 24.02.25 to 02.03.25	issued on 11-03-2025
Week from 19.02.24 to 25.02.24	issued on 13-03-2025
Week from 03.03.25 to 09.03.25	issued on 18-03-2025
Week from 24.02.25 to 02.03.25	issued on 18-03-2025
Week from 03.06.24 to 09.06.24 (REV 3-Final Data)	issued on 19-03-2025
Week from 27.05.24 to 02.06.24 (REV 3-Final Data)	issued on 19-03-2025

Week from 20.05.24 to 26.05.24 (REV 2-Final Data)	issued on 19-03-2025
Week from 13.05.24 to 19.05.24 (REV 1-Final Data)	issued on 19-03-2025
Week from 06.05.24 to 12.05.24 (REV 2-Final Data)	issued on 19-03-2025
Week from 29.04.24 to 05.05.24 (REV 3-Final Data)	issued on 19-03-2025
Week from 03.06.24 to 09.06.24 (REV 3-Final Data)	issued on 19-03-2025
Week from 27.05.24 to 02.06.24 (REV 3-Final Data)	issued on 19-03-2025
Week from 20.05.24 to 26.05.24 (REV 2-Final Data)	issued on 19-03-2025
Week from 13.05.24 to 19.05.24 (REV 1-Final Data)	issued on 19-03-2025
Week from 06.05.24 to 12.05.24 (REV 2-Final Data)	issued on 19-03-2025
Week from 29.04.24 to 05.05.24 (REV 3-Final Data)	issued on 19-03-2025
Week from 01.01.24 to 07.01.24	issued on 19-03-2025
Week from 01.01.24 to 07.01.24	issued on 19-03-2025
Week from 01.01.24 to 07.01.24 _Withdrawl	issued on 19-03-2025
Week from 10.03.25 to 16.03.25	issued on 25-03-2025
Week from 01.01.24 to 07.01.24 (REV 1-Final Data)	issued on 25-03-2025
Week from 13.05.24 to 19.05.24 (REV 2-Final Data)	issued on 28-03-2025
Week from 08.01.24 to 14.01.24	issued on 28-03-2025

Reactive Energy Account issued in the FY 2024-25	
Week from 18.03.24 to 24.03.24	issued on 02-04-2024
Week from 25.03.24 to 31.03.24	issued on 10-04-2024
Week from 01.04.24 to 07.04.24	issued on 16-04-2024
Week from 18.03.24 to 07.04.24	issued on 22-04-2024
Week from 08.04.24 to 14.04.24	issued on 23-04-2024
Week from 15.04.24 to 21.04.24	issued on 30-04-2024
Week from 22.04.24 to 28.04.24	issued on 07-05-2024
Week from 29.04.24 to 05.05.24	issued on 14-05-2024
Week from 06.05.24 to 12.05.24	issued on 22-05-2024
Week from 13.05.24 to 19.05.24	issued on 28-05-2024
Week from 20.05.24 to 26.05.24	issued on 04-06-2024
Week from 27.05.24 to 02.06.24	issued on 11-06-2024
Week from 03.06.24 to 09.06.24	issued on 18-06-2024
Week from 10.06.24 to 16.06.24	issued on 25-06-2024
Week from 17.06.24 to 23.06.24	issued on 02-07-2024
Week from 24.06.24 to 30.06.24	issued on 09-07-2024
Week from 01.07.24 to 07.07.24	issued on 16-07-2024
Week from 08.07.24 to 14.07.24	issued on 23-07-2024
Week from 15.07.24 to 21.07.24	issued on 30-07-2024
Week from 22.07.24 to 28.07.24	issued on 06-08-2024
Week from 29.07.24 to 04.08.24	issued on 13-08-2024
Week from 05.08.24 to 11.08.24	issued on 26-08-2024
Week from 19.08.24 to 25.08.24	issued on 04-09-2024
Week from 12.08.24 to 18.08.24	issued on 04-09-2024

Week from 26.08.24 to 01.09.24	issued on 10-09-2024
Week from 02.09.24 to 08.09.24	issued on 17-09-2024
Week from 09.09.24 to 15.09.24	issued on 24-09-2024
Week from 16.09.24 to 22.09.24	issued on 04-10-2024
Week from 23.09.24 to 29.09.24	issued on 08-10-2024
Week from 30.09.24 to 06.10.24	issued on 15-10-2024
Week from 07.10.24 to 13.10.24	issued on 22-10-2024
Week from 07.10.24 to 13.10.24	issued on 25-10-2024
Week from 14.10.24 to 20.10.24	issued on 29-10-2024
Week from 21.10.24 to 27.10.24	issued on 05-11-2024
Week from 28.10.24 to 03.11.24	issued on 12-11-2024
Weeks from 26.08.24 to 01.09.24 and 14.10.24 to 20.10.24	issued on 19-11-2024
Week from 04.11.24 to 10.11.24	issued on 19-11-2024
Week from 02.10.23 to 04.02.24	issued on 26-11-2024
Week from 11.11.24 to 17.11.24	issued on 26-11-2024
Week from 11.11.24 to 17.11.24	issued on 28-11-2024
Week from 18.11.24 to 24.11.24	issued on 03-12-2024
Week from 18.11.24 to 24.11.24	issued on 10-12-2024
Week from 25.11.24 to 01.12.24	issued on 10-12-2024
Week from 02.12.24 to 08.12.24	issued on 17-12-2024
Week from 09.12.24 to 15.12.24	issued on 24-12-2024
Week from 16.12.24 to 22.12.24	issued on 31-12-2024
Week from 23.12.24 to 29.12.24	issued on 07-01-2025
Week from 30.12.24 to 05.01.25	issued on 14-01-2025
Week from 30.12.24 to 05.01.25	issued on 15-01-2025

Week from 06.01.25 to 12.01.25	issued on 21-01-2025
Week from 13.01.25 to 19.01.25	issued on 28-01-2025
Week from 20.01.25 to 26.01.25	issued on 06-02-2025
Week from 27.01.25 to 02.02.25	issued on 10-02-2025
Week from 03.02.25 to 09.02.25	issued on 18-02-2025
Week from 10.02.25 to 16.02.25	issued on 25-02-2025
Week from 17.02.25 to 23.02.25	issued on 04-03-2025
Week from 03.02.25 to 09.02.25	issued on 05-03-2025
Week from 24.02.25 to 02.03.25	issued on 11-03-2025
Week from 03.03.25 to 09.03.25	issued on 18-03-2025
Week from 10.03.25 to 16.03.25	issued on 25-03-2025
Week from 03.03.25 to 09.03.25	issued on 25-03-2025

TRAS and SRAS accounts issued in the FY 2024-25	
TRAS & SRAS for 18.03.24 to 24.03.24	issued on 02-04-2024
TRAS & SRAS for 25.03.24 to 31.03.24	issued on 10-04-2024
TRAS & SRAS for 01.04.24 to 07.04.24	issued on 16-04-2024
Revised TRAS for 18.03.24 to 07.04.24	issued on 22-04-2024
TRAS & SRAS for 08.04.24 to 14.04.24	issued on 23-04-2024
TRAS & SRAS for 15.04.24 to 21.04.24	issued on 30-04-2024
TRAS & SRAS for 22.04.24 to 28.04.24	issued on 08-05-2024
TRAS & SRAS for 29.04.24 to 05.05.24	issued on 14-05-2024
TRAS SRAS & SCUC for 06.05.24 to 12.05.24	issued on 24-05-2024
Revised TRAS SRAS & SCUC for 06.05.24 to 12.05.24	issued on 29-05-2024
TRAS SRAS & SCUC for 20.05.24 to 26.05.24	issued on 04-06-2024
Revised TRAS SRAS & SCUC for 22.04.24 to 12.05.24	issued on 05-06-2024
Revised TRAS for 19.02.24 to 21.04.24	issued on 06-06-2024
Revised TRAS for 18.12.23 to 18.02.24	issued on 06-06-2024
TRAS SRAS & SCUC for 13.05.24 to 19.05.24	issued on 07-06-2024
Revised TRAS SRAS & SCUC for 20.05.24 to 26.05.24	issued on 07-06-2024
TRAS SRAS & SCUC for 27.05.24 to 02.06.24	issued on 11-06-2024
Revised TRAS SRAS & SCUC for 27.05.24 to 02.06.24	issued on 14-06-2024
TRAS SRAS & SCUC for 03.06.24 to 09.06.24	issued on 21-06-2024
TRAS SRAS & SCUC for 10.06.24 to 16.06.24	issued on 25-06-2024
Revised TRAS SRAS & SCUC for 03.06.24 to 09.06.24	issued on 25-06-2024
TRAS SRAS & SCUC for 17.06.24 to 23.06.24	issued on 04-07-2024
TRAS SRAS & SCUC for 24.06.24 to 30.06.24	issued on 09-07-2024
Revised TRAS SRAS & SCUC for 24.06.24 to 30.06.24	issued on 16-07-2024

TRAS SRAS & SCUC for 01.07.24 to 07.07.24	issued on 16-07-2024
TRAS SRAS & SCUC for 08.07.24 to 14.07.24	issued on 23-07-2024
TRAS SRAS & SCUC for 15.07.24 to 21.07.24	issued on 30-07-2024
Revised TRAS SRAS & SCUC for 15.07.24 to 21.07.24	issued on 06-08-2024
TRAS SRAS & SCUC for 22.07.24 to 28.07.24	issued on 06-08-2024
Revised TRAS SRAS & SCUC for 15.07.24 to 21.07.24	issued on 13-08-2024
TRAS SRAS & SCUC for 29.07.24 to 04.08.24	issued on 19-08-2024
TRAS SRAS & SCUC for 19.08.24 to 25.08.24	issued on 04-09-2024
TRAS SRAS & SCUC for 12.08.24 to 18.08.24	issued on 04-09-2024
TRAS SRAS & SCUC for 05.08.24 to 11.08.24	issued on 04-09-2024
TRAS SRAS & SCUC for 26.08.24 to 01.09.24	issued on 11-09-2024
TRAS SRAS & SCUC for 02.09.24 to 08.09.24	issued on 17-09-2024
TRAS SRAS & SCUC for 09.09.24 to 15.09.24	issued on 24-09-2024
TRAS SRAS & SCUC for 16.09.24 to 22.09.24	issued on 04-10-2024
TRAS SRAS & SCUC for 23.09.24 to 29.09.24	issued on 08-10-2024
TRAS SRAS & SCUC for 30.09.24 to 06.10.24	issued on 15-10-2024
TRAS SRAS & SCUC for 07.10.24 to 13.10.24	issued on 22-10-2024
TRAS SRAS & SCUC for 14.10.24 to 20.10.24	issued on 29-10-2024
TRAS SRAS & SCUC for 21.10.24 to 27.10.24	issued on 05-11-2024
TRAS SRAS & SCUC for 28.10.24 to 03.11.24	issued on 12-11-2024
TRAS SRAS & SCUC for 04.11.24 to 10.11.24	issued on 19-11-2024
Revised TRAS for 04.11.24 to 10.11.24	issued on 21-11-2024
TRAS SRAS & SCUC for 11.11.24 to 17.11.24	issued on 26-11-2024
TRAS SRAS & SCUC for 18.11.24 to 24.11.24	issued on 03-12-2024
TRAS SRAS & SCUC for 25.11.24 to 01.12.24	issued on 10-12-2024

TRAS SRAS & SCUC for 02.12.24 to 08.12.24	issued on 17-12-2024
Revised TRAS & SCUC for 23.09.24 to 29.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 16.09.24 to 22.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 09.09.24 to 15.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 02.09.24 to 08.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 26.08.24 to 01.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 19.08.24 to 25.08.24	issued on 23-12-2024
Revised TRAS & SCUC for 12.08.24 to 18.08.24	issued on 23-12-2024
Revised TRAS & SCUC for 05.08.24 to 11.08.24	issued on 23-12-2024
TRAS SRAS & SCUC for 09.12.24 to 15.12.24	issued on 24-12-2024
Revised SRAS for 09.12.24 to 15.12.24	issued on 26-12-2024
Revised SCUC for 23.09.24 to 29.09.24	issued on 27-12-2024
Revised SCUC for 16.09.24 to 22.09.24	issued on 27-12-2024
Revised SCUC for 02.09.24 to 08.09.24	issued on 27-12-2024
TRAS SRAS & SCUC for 16.12.24 to 22.12.24	issued on 31-12-2024
Revised SCUC for 19.08.24 to 25.08.24	issued on 02-01-2025
Revised SCUC for 12.08.24 to 18.08.24	issued on 02-01-2025
Revised SCUC for 05.08.24 to 11.08.24	issued on 02-01-2025
TRAS SRAS & SCUC for 23.12.24 to 29.12.24	issued on 07-01-2025
Revised SCUC consolidate for 23.12.24 to 29.12.24	issued on 08-01-2025
Revised SRAS for 23.12.24 to 29.12.24	issued on 13-01-2025
TRAS SRAS & SCUC for 30.12.24 to 05.01.25	issued on 14-01-2025
TRAS SRAS & SCUC for 06.01.25 to 12.01.25	issued on 21-01-2025
TRAS SRAS & SCUC for 13.01.25 to 19.01.25	issued on 28-01-2025
Revised SRAS for 13.01.25 to 19.01.25	issued on 30-01-2025

TRAS SRAS & SCUC for 20.01.25 to 26.01.25	issued on 06-02-2025
TRAS SRAS & SCUC for 27.01.25 to 02.02.25	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 24.06.24 to 30.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 17.06.24 to 23.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 10.06.24 to 16.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 03.06.24 to 09.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 27.05.24 to 02.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 20.05.24 to 26.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 13.05.24 to 19.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 06.05.24 to 12.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 29.04.24 to 05.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 22.04.24 to 28.04.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 15.04.24 to 21.04.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 08.04.24 to 14.04.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 01.04.24 to 07.04.24	issued on 10-02-2025
TRAS SRAS & SCUC for 03.02.25 to 09.02.25	issued on 18-02-2025
TRAS SRAS & SCUC for 10.02.25 to 16.02.25	issued on 25-02-2025
TRAS SRAS & SCUC for 17.02.25 to 23.02.25	issued on 04-03-2025
Revised TRAS & SCUC for 17.02.25 to 23.02.25	issued on 10-03-2025
TRAS SRAS & SCUC for 24.02.25 to 02.03.25	issued on 11-03-2025
Revised TRAS SRAS & SCUC for 23.12.24 to 29.12.24	issued on 12-03-2025
Revised TRAS SRAS & SCUC for 16.12.24 to 22.12.24	issued on 12-03-2025
Revised TRAS SRAS & SCUC for 09.12.24 to 15.12.24	issued on 12-03-2025
Revised TRAS SRAS & SCUC for 02.12.24 to 08.12.24	issued on 12-03-2025
Revised TRAS & SCUC for 24.02.25 to 02.03.25	issued on 13-03-2025

TRAS SRAS & SCUC for 03.03.25 to 09.03.25	issued on 18-03-2025
TRAS SRAS & SCUC for 10.03.25 to 16.03.25	issued on 25-03-2025
Revised TRAS for 13.05.24 to 19.05.24	issued on 28-03-2025

TRAS and SRAS accounts issued in the FY 2024-25	
TRAS & SRAS for 18.03.24 to 24.03.24	issued on 02-04-2024
TRAS & SRAS for 25.03.24 to 31.03.24	issued on 10-04-2024
TRAS & SRAS for 01.04.24 to 07.04.24	issued on 16-04-2024
Revised TRAS for 18.03.24 to 07.04.24	issued on 22-04-2024
TRAS & SRAS for 08.04.24 to 14.04.24	issued on 23-04-2024
TRAS & SRAS for 15.04.24 to 21.04.24	issued on 30-04-2024
TRAS & SRAS for 22.04.24 to 28.04.24	issued on 08-05-2024
TRAS & SRAS for 29.04.24 to 05.05.24	issued on 14-05-2024
TRAS SRAS & SCUC for 06.05.24 to 12.05.24	issued on 24-05-2024
Revised TRAS SRAS & SCUC for 06.05.24 to 12.05.24	issued on 29-05-2024
TRAS SRAS & SCUC for 20.05.24 to 26.05.24	issued on 04-06-2024
Revised TRAS SRAS & SCUC for 22.04.24 to 12.05.24	issued on 05-06-2024
Revised TRAS for 19.02.24 to 21.04.24	issued on 06-06-2024
Revised TRAS for 18.12.23 to 18.02.24	issued on 06-06-2024
TRAS SRAS & SCUC for 13.05.24 to 19.05.24	issued on 07-06-2024
Revised TRAS SRAS & SCUC for 20.05.24 to 26.05.24	issued on 07-06-2024
TRAS SRAS & SCUC for 27.05.24 to 02.06.24	issued on 11-06-2024
Revised TRAS SRAS & SCUC for 27.05.24 to 02.06.24	issued on 14-06-2024
TRAS SRAS & SCUC for 03.06.24 to 09.06.24	issued on 21-06-2024
TRAS SRAS & SCUC for 10.06.24 to 16.06.24	issued on 25-06-2024
Revised TRAS SRAS & SCUC for 03.06.24 to 09.06.24	issued on 25-06-2024
TRAS SRAS & SCUC for 17.06.24 to 23.06.24	issued on 04-07-2024
TRAS SRAS & SCUC for 24.06.24 to 30.06.24	issued on 09-07-2024
Revised TRAS SRAS & SCUC for 24.06.24 to 30.06.24	issued on 16-07-2024

TRAS SRAS & SCUC for 01.07.24 to 07.07.24	issued on 16-07-2024
TRAS SRAS & SCUC for 08.07.24 to 14.07.24	issued on 23-07-2024
TRAS SRAS & SCUC for 15.07.24 to 21.07.24	issued on 30-07-2024
Revised TRAS SRAS & SCUC for 15.07.24 to 21.07.24	issued on 06-08-2024
TRAS SRAS & SCUC for 22.07.24 to 28.07.24	issued on 06-08-2024
Revised TRAS SRAS & SCUC for 15.07.24 to 21.07.24	issued on 13-08-2024
TRAS SRAS & SCUC for 29.07.24 to 04.08.24	issued on 19-08-2024
TRAS SRAS & SCUC for 19.08.24 to 25.08.24	issued on 04-09-2024
TRAS SRAS & SCUC for 12.08.24 to 18.08.24	issued on 04-09-2024
TRAS SRAS & SCUC for 05.08.24 to 11.08.24	issued on 04-09-2024
TRAS SRAS & SCUC for 26.08.24 to 01.09.24	issued on 11-09-2024
TRAS SRAS & SCUC for 02.09.24 to 08.09.24	issued on 17-09-2024
TRAS SRAS & SCUC for 09.09.24 to 15.09.24	issued on 24-09-2024
TRAS SRAS & SCUC for 16.09.24 to 22.09.24	issued on 04-10-2024
TRAS SRAS & SCUC for 23.09.24 to 29.09.24	issued on 08-10-2024
TRAS SRAS & SCUC for 30.09.24 to 06.10.24	issued on 15-10-2024
TRAS SRAS & SCUC for 07.10.24 to 13.10.24	issued on 22-10-2024
TRAS SRAS & SCUC for 14.10.24 to 20.10.24	issued on 29-10-2024
TRAS SRAS & SCUC for 21.10.24 to 27.10.24	issued on 05-11-2024
TRAS SRAS & SCUC for 28.10.24 to 03.11.24	issued on 12-11-2024
TRAS SRAS & SCUC for 04.11.24 to 10.11.24	issued on 19-11-2024
Revised TRAS for 04.11.24 to 10.11.24	issued on 21-11-2024
TRAS SRAS & SCUC for 11.11.24 to 17.11.24	issued on 26-11-2024
TRAS SRAS & SCUC for 18.11.24 to 24.11.24	issued on 03-12-2024
TRAS SRAS & SCUC for 25.11.24 to 01.12.24	issued on 10-12-2024

TRAS SRAS & SCUC for 02.12.24 to 08.12.24	issued on 17-12-2024
Revised TRAS & SCUC for 23.09.24 to 29.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 16.09.24 to 22.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 09.09.24 to 15.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 02.09.24 to 08.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 26.08.24 to 01.09.24	issued on 23-12-2024
Revised TRAS & SCUC for 19.08.24 to 25.08.24	issued on 23-12-2024
Revised TRAS & SCUC for 12.08.24 to 18.08.24	issued on 23-12-2024
Revised TRAS & SCUC for 05.08.24 to 11.08.24	issued on 23-12-2024
TRAS SRAS & SCUC for 09.12.24 to 15.12.24	issued on 24-12-2024
Revised SRAS for 09.12.24 to 15.12.24	issued on 26-12-2024
Revised SCUC for 23.09.24 to 29.09.24	issued on 27-12-2024
Revised SCUC for 16.09.24 to 22.09.24	issued on 27-12-2024
Revised SCUC for 02.09.24 to 08.09.24	issued on 27-12-2024
TRAS SRAS & SCUC for 16.12.24 to 22.12.24	issued on 31-12-2024
Revised SCUC for 19.08.24 to 25.08.24	issued on 02-01-2025
Revised SCUC for 12.08.24 to 18.08.24	issued on 02-01-2025
Revised SCUC for 05.08.24 to 11.08.24	issued on 02-01-2025
TRAS SRAS & SCUC for 23.12.24 to 29.12.24	issued on 07-01-2025
Revised SCUC consolidate for 23.12.24 to 29.12.24	issued on 08-01-2025
Revised SRAS for 23.12.24 to 29.12.24	issued on 13-01-2025
TRAS SRAS & SCUC for 30.12.24 to 05.01.25	issued on 14-01-2025
TRAS SRAS & SCUC for 06.01.25 to 12.01.25	issued on 21-01-2025
TRAS SRAS & SCUC for 13.01.25 to 19.01.25	issued on 28-01-2025
Revised SRAS for 13.01.25 to 19.01.25	issued on 30-01-2025

TRAS SRAS & SCUC for 20.01.25 to 26.01.25	issued on 06-02-2025
TRAS SRAS & SCUC for 27.01.25 to 02.02.25	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 24.06.24 to 30.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 17.06.24 to 23.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 10.06.24 to 16.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 03.06.24 to 09.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 27.05.24 to 02.06.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 20.05.24 to 26.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 13.05.24 to 19.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 06.05.24 to 12.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 29.04.24 to 05.05.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 22.04.24 to 28.04.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 15.04.24 to 21.04.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 08.04.24 to 14.04.24	issued on 10-02-2025
Revised TRAS SRAS & SCUC for 01.04.24 to 07.04.24	issued on 10-02-2025
TRAS SRAS & SCUC for 03.02.25 to 09.02.25	issued on 18-02-2025
TRAS SRAS & SCUC for 10.02.25 to 16.02.25	issued on 25-02-2025
TRAS SRAS & SCUC for 17.02.25 to 23.02.25	issued on 04-03-2025
Revised TRAS & SCUC for 17.02.25 to 23.02.25	issued on 10-03-2025
TRAS SRAS & SCUC for 24.02.25 to 02.03.25	issued on 11-03-2025
Revised TRAS SRAS & SCUC for 23.12.24 to 29.12.24	issued on 12-03-2025
Revised TRAS SRAS & SCUC for 16.12.24 to 22.12.24	issued on 12-03-2025
Revised TRAS SRAS & SCUC for 09.12.24 to 15.12.24	issued on 12-03-2025
Revised TRAS SRAS & SCUC for 02.12.24 to 08.12.24	issued on 12-03-2025
Revised TRAS & SCUC for 24.02.25 to 02.03.25	issued on 13-03-2025

TRAS SRAS & SCUC for 03.03.25 to 09.03.25	issued on 18-03-2025
TRAS SRAS & SCUC for 10.03.25 to 16.03.25	issued on 25-03-2025
Revised TRAS for 13.05.24 to 19.05.24	issued on 28-03-2025

Congestion Statement issued in the FY 2024-25

Congestion statement for the week 15.07.2024 to 21.07.2024	issued on 05.09.2024
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Annexure-3.2.2.1**Weighted average Percentage allocation of shares from each ISGS in Western Region during 2024-25**

Constituents	KSTPS	VSTPS-I	VSTPS-II	VSTPS-III	KGPP	GGPP	SIPAT	KAPP	TAPP 3&4	KHTPP
Gujarat	18.14	19.66	25.26	27.96	28.50	36.05	28.60	28.41	25.37	20.47
Madhya Pradesh	22.47	34.42	31.11	23.81	0.02	0.02	18.05	24.93	20.94	51.73
Chhattisgarh	10.00	0.00	0.00	10.50	0.00	0.00	15.80	0.00	4.44	9.53
Maharashtra	31.07	35.41	34.68	28.58	31.13	30.47	28.46	33.88	40.18	7.60
GOA	10.25	3.13	1.54	1.34	1.89	1.93	1.32	3.74	1.48	1.35
DNHDDPDCL	4.97	4.46	4.25	4.65	17.12	13.72	4.19	5.33	5.95	7.06

Constituents	KSTPS 7	SIPAT1	VSTPS-IV	MSTPS-I	VSTPS-V	MSTPS-II	SSTPP	GSTPP	LSTPP	KAPP 3&4
Gujarat	26.07	29.14	25.86	45.56	20.56	40.17	1.87	20.86	11.65	33.99
Madhya Pradesh	14.23	16.03	27.37	1.29	27.31	1.72	24.15	51.73	10.93	17.88
Chhattisgarh	15.00	15.81	6.26	6.26	8.04	6.64	12.04	9.73	50.00	6.26
Maharashtra	25.45	29.57	30.86	39.80	33.59	41.67	50.48	6.94	18.19	31.98
GOA	1.36	1.47	1.58	1.45	1.50	1.56	1.61	1.37	0.92	1.72
DNHDDPDCL	5.63	5.72	5.81	3.90	6.75	5.90	7.60	7.11	5.94	7.24

Regional Energy Accounts issued in the FY 2024-25

Mar-24	issued on 02-04-2024
Corr March 2024	issued on 03-04-2024
Apr-24	issued on 02-05-2024
Corr April 2024	issued on 03-05-2024
May-24	issued on 04-06-2024
Corr2 April 2024	issued on 24-06-2024
Jun-24	issued on 02-07-2024
Corr June 2024	issued on 30-07-2024
Jul-24	issued on 02-08-2024
Corr July 2024	issued on 05-08-2024
Corr2 July 2024	issued on 30-08-2024
August 2024	issued on 03-09-2024
Revised REA for the month of August 2024	issued on 05-09-2024
Revised REA for the month of August 2024	issued on 06-09-2024
Revised REA for the month of June 2022, March 2023, April 2023 and August 2024	issued on 27-09-2024
Sep-24	issued on 03-10-2024
Revised REA for the month of May 2024	issued on 01-11-2024
Revised REA for the month of June 2024	issued on 01-11-2024
Revised REA for the month of April 2024	issued on 01-11-2024

Oct-24	issued on 04-11-2024
Revised REA for the month of October 2024	issued on 08-11-2024
Revised REA for the month of May 2024	issued on 12-11-2024
Revised REA for the month of June 2024	issued on 12-11-2024
Nov-24	issued on 03-12-2024
Revised January 2024	issued on 23-12-2024
Revised February 2024	issued on 23-12-2024
Revised March 2024	issued on 23-12-2024
Dec-24	issued on 02-01-2025
Jan-25	issued on 06-02-2025
Corrigendum to January 2025	issued on 06-02-2025
Corrigendum 2 to January 2025	issued on 10-02-2025
Feb-25	issued on 04-03-2025
Revised REA September 2024 (Final data)	issued on 10-03-2025
Revised REA July 2024 (Final data)	issued on 10-03-2025
Revised REA July 2024 (Final data)	issued on 10-03-2025
Revised REA August 2024 (Final data)	issued on 10-03-2025
Corrigendum to February 2025	issued on 11-03-2025

RTA accounts issued in the FY 2024-25

May 2024 (Billing period March 2024)	issued on 29-04-2024
January 2021 to November 2023 (Billing period November 2020 to September 2022)	issued on 01-05-2024
June 2024 (Billing period April 2024)	issued on 31-05-2024
July 2024 (Billing period May 2024)	issued on 26-06-2024
August 2024 (Billing period June 2024)	issued on 31-07-2024
September 2024 (Billing period July 2024)	issued on 30-08-2024
October 2024 (Billing period August 2024)	issued on 30-09-2024
November 2024 (Billing period September 2024)	issued on 30-10-2024
December 2024 (Billing period October 2024)	issued on 29-11-2024
RTA January 2025 (Billing period November 2024)	issued on 26-12-2024
RTA February 2025 (Billing period December 2024)	issued on 28-01-2025
Revised RTA December 2024 (Billing period October 2024)	issued on 30-01-2025
RTA March 2025 (Billing period January 2025)	issued on 28-02-2025
RTA April 2025 (Billing period February 2025)	issued on 28-03-2025

RTDA accounts issued in the FY 2024-25

Final RTDA January 2024 and February 2024 (Billing period November 2023 and December 2023)	issued on 23-09-2024
Final RTDA October 2024 (Billing period August 2024)	issued on 08-10-2024
Final RTDA March 2024 (Billing period January 2024)	issued on 29-10-2024
Final RTDA April 2024 (Billing period February 2024)	issued on 30-10-2024
Final RTDA June and July 2024 (Billing period April and May2024)	issued on 01-11-2024
Final RTDA May 2024 (Billing period March 2024)	issued on 01-11-2024
Final RTDA August and September 2024 (Billing period June and July 2024)	issued on 13-11-2024
Revised RTDA March 2024 to May 2024 (Billing period January 2024 to March 2024)	issued on 27-11-2024
Final RTDA December 2024 (Billing period October 2024)	issued on 29-11-2024
Final RTDA November 2024 (Billing period September 2024)	issued on 04-12-2024
Revised RTDA May 2024 (Billing period March 2024)	issued on 18-12-2024
RTDA & RTA January 2025 (Billing period November 2024)	issued on 26-12-2024
RTDA February 2025 (Billing period December 2024)	issued on 28-01-2025
Revised RTDA December 2024 (Billing period October 2024)	issued on 30-01-2025
RTDA March 2025 (Billing period January 2025)	issued on 28-02-2025
RTDA April 2025 (Billing period February 2025)	issued on 28-03-2025
Revised RTDA March 2025 (Billing period January 2025)	issued on 28-03-2025

Annexure-3.2.8.1

Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2024-25

Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto May 2024	issued on 26-06-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto April 2024	issued on 26-06-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto July 2024	issued on 11-09-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto June 2024	issued on 11-09-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto August 2024	issued on 26-09-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto September 2024	issued on 18-11-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto October 2024	issued on 29-11-2024
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto November 2024	issued on 03-01-2025
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2023-24 Upto December 2024	issued on 24-01-2025
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2024-25 Upto January 2025	issued on 27-02-2025
Certification of Ramping Performance of Thermal ISGS of Western Region for FY 2024-25 Upto February 2025	issued on 26-03-2025

Compensation accounts issued in the FY 2024-25

Compensation Statement from December 2023 upto February 2024 for NTPC NSPCL Sasan UMPP & CGPL	issued on 19.04.2024
Compensation Statement from March 2024 for NTPC	issued on 26.06.2024
Compensation Statement from April 2024 to June 2024 for NTPC	issued on 28.08.2024
Compensation Statement from July 2024 to September 2024 for NTPC	issued on 28.11.2024
Compensation Statement upto October 2024 for NTPC	issued on 29.11.2024
Compensation for Degradation of Secondary Fuel Oil Consumption for the year 2023-24	issued on 29.11.2024
Compensation Statement from November 2024 for NTPC	issued on 18.12.2024
Compensation Statement from December 2024 for NTPC	issued on 20.01.2025
Compensation Statement from January 2025 for NTPC	issued on 25.02.2025

Sl. No.	Share Allocation issued
1	Share Allocation With Effect from 09.05.24 Odisha
2	Share Allocation With Effect from 01.06.24 UP
3	Share Allocation With Effect from 26.06.24 Rajasthan
4	Share Allocation With Effect from 01.07.24 UP_Odisha_removal
5	Share Allocation With Effect from 04.07.24 Uttarakhand
6	Share Allocation With Effect from 11.07.24 Rajasthan_Removal
7	Share Allocation With Effect from 11.07.24 Rajasthan_Extension
8	Share Allocation With Effect from 01.08.24 Uttarakhand_Removal
9	Share Allocation With Effect from 03.08.24 Uttarakhand_Extension
10	Share Allocation With Effect from 06.08.24 Rajasthan_265MW_07.08.24
11	Share Allocation With Effect from 28.08.24 Rajasthan_Extension_Removal_01.09.24
12	Share Allocation With Effect from 06.09.24 Rajasthan_265MW_07.09.24
13	Share Allocation With Effect from 01.10.24 Rajasthan_UTTAR_01.10.24
14	Share Allocation With Effect from 01.11.24 Rajasthan_Removal

Summary Grid Incidents/Disturbances in WR During the year 2024 -25					
Sl No	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
1	GD-1	WR	08:14 / 01-04-2024	At 08:14 Hrs / 01-04-2024, 400 kV Khavda PS1-Khavda PSS2 tripped due to over voltage stage-1 protection operation (main-1 relay maloperated) at Khavda PSS2. Voltage at both the ends were within the normal operating limits, on inspection it was found that main 1 (GE make L90) maloperated and DT was sent to Khavda PS1 end. Generation loss of 41 MW occurred at Khavda PSS2 (AREH4L) due to loss of evacuation path.	Tripping of following Elements: 1. 400 kV Khavda PS1-Khavda PSS2
2	GD-1	WR	18:12 / 02-04-2024	At 18:12 Hrs / 02-04-2024, 220 kV Bhuj-Gadhisa tripped due on Y-E fault. During patrolling no abnormality was found. Generation loss of 148 MW occurred at Gadhisa (Renew Power) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
3	GD-1	WR	05:15 / 03-04-2024	At 05:15 Hrs / 03-04-2024, 220 kV Indore(PG)-Pritamnagar(AWEMP1PL) tripped due on R-E fault. R phase tripped at Indore(PG) end and other phase tripped from Pritamnagar end on Zone-2 . As per DR at Pritamnagar end carrier not received at Pritamnagar. During patrolling no abnormality was found. Generation loss of 129 MW occurred at Pritamnagar(AWEMP1PL) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Indore(PG)-Pritamnagar(AWEMP1PL)
4	GD-1	WR	05:30 / 03-04-2024	At 05:30 Hrs / 03-04-2024, 220 kV Suhela-Bhatapara-1 tripped on R-E fault from Suhela end only and no signal picked up at Bhatapara end. Subsequently, other lines at Suhela tripped on overcurrent protection operation resulting in blackout at Suhela, Paraswani,Bemetra and Saraipalli station. Prior to the event, 220 kV Bhilai-Bemetra was under forced outage. Load loss of around 1235 MW occurred at Suhela and adjacent station due to the event.	Tripping of following Elements: 1. 220 kV Bhatapara-Suhela-1,2&3 2. 220 kV DSPM-Suhela 3. 220 kV Suhela-Bemetra-1&2 4. 220 kV Suhela-Paraswani-1&2 5. 220 kV Suhela-Banari 6. 220 kV Suhela-Bus-1&2
5	GD-1	WR	11:19 / 03-04-2024	At 11:19 Hrs / 03-04-2024, 220 kV Agar5(Umariya)-Pachora tripped from Agar5(Umariya) end on Y phase differential protection operation and auto recloser successful at Pachora substation. Generation loss of 328 MW occurred at Umariya (Beempow) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Agar5(Umariya)-Pachora
6	GD-1	WR	17:32 / 03-04-2024	At 17:32 Hrs / 03-04-2024, 220 kV Bhuj-Gadhisa tripped due on B-E fault. During patrolling no abnormality was found. Generation loss of 140 MW occurred at Gadhisa (Renew Power) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
7	GI-2	WR	04:30 / 05-04-2024	At 04:30 Hrs / 05-04-2024, 400 kV Navsari(PG)-Bus-2 tripped on Y-E Bus Bar differential protection operation resulting in tripping of all connected elements (400 kV Navsari(PG)-Kakrapar-1, 400 kV Navsari(PG)-Gandhar-1, 400 kV Navsari(PG)-DGEN-2, 400 kV Navsari(PG)-Magarwada-2, 400/220 kV Navsari(PG)-ICT-1&2). On inspection it was found that SF6 gas of B2 Compartment of 41189B Isolator of 400kV Side of Navsari(PG)-ICT-3 was highly contaminated with SO2 gas. Prior to the event, 400 kV Kakrapar-Vapi-1&2 were under outage for LLO arrangement of Kakrapar-Vapi-1&2 at 400 kV Vapi-II. Manual generation backdown of 300 MW done at Kakrapar by NPCIL due to transmission constraints. No load loss / generation loss occurred due to the event.	Tripping of following Elements: 1. 400 kV Navsari(PG)-Bus-2 2. 400 kV Navsari(PG)-Bus Reactor 3. 400 kV Navsari(PG)-Kakrapar-1 4. 400 kV Navsari(PG)-Gandhar-1 5. 400 kV Navsari(PG)-DGEN-2 6. 400/220 kV Navsari(PG)-ICT-1&2 7. 400 kV Navsari(PG)-Magarwada-2
8	GD-1	WR	14:41 / 05-04-2024	At 14:41 Hrs / 05-04-2024, 220 kV Korba(E)-Korba(W)-1 tripped from Korba(E) end on zone-2 operation and Earth fault operation at Korba(W) end. At same time 220 kV DSPM-Mopka tripped (reason not given by CSPTCL). Prior to the event, 220 kV Dardehi-Bhatapara and 220 kV Korba(W)-Mopka were under outage. With tripping of 220 kV DSPM-Mopka, load at Mopka end was being met through 220 kV Chhuri-Mopka-1&2 resulting in high loading on lines connected to 220 kV Chhuri. Further, R phase jumper of 220 kV Korba(E)-Chhuri-1 broke at Korba(E) end and line tripped on pole discrepancy operation. Subsequently,multiples lines tripped leading to blackout of Chhuri, Mopka, Dardehi, Bishrampur, Jannipalli and Kharmora. Generation loss of 470 MW at DSPM (Chhattisgarh) and load loss of around 900 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Korba(E)-Chhuri-1&2 2. 220 kV Korba(E)-Budhipadhar-2&3 3. 220 kV Korba(E)-Bus-2 4. DSPM Unit-1&2 (250 MW) 5. 220 kV Korba(E)-Korba(W)-1&2 6. 220 kV DSPM-Mopka 7. 220 kV Chhuri-Mopka-1&2
9	GD-1	WR	12:41 / 06-04-2024	At 12:41 Hrs / 06-04-2024, 220 kV Korba(W)-Chhuri-2 tripped on R-E fault. Subsequently, 220 kV Korba(W)-Chhuri-1 tripped at Korba(W) on over current protection operation and DT sent to Chhuri end. Prior to the event 220 kV Mopka-Dardehi-D/C were under outage and load at Mopka end was being fed by Churri. Also many other lines at adjacents stations were under outage (details awaited from CSPTCL). Chhuri, Mopka, Dardehi, Bishrampur, Jannipalli, Kharmora and Renki substation were blackout. Load loss of around 700 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Korba(W)-Chhuri-1&2 2. 220 kV Korba(W)-Mopka-1 3. 220 kV Churri-Bishrampur-1&2 4. 220 kV Mopka-Dardehi-1&2 5. 220 kV Korba(E)-Bishrampur
10	GD-1	WR	12:43 / 07-04-2024	At 12:43 Hrs / 07-04-2024, 220 kV Agar5(Umariya)-Pachora tripped from Agar5(Umariya) end on B phase differential protection operation and auto recloser successful at Pachora substation. Generation loss of 328 MW occurred at Umariya (Beempow) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Agar5(Umariya)-Pachora
11	GI-2	WR	09:31 / 08-04-2024	At 09:31 Hrs / 08-04-2024,LBB operation of 400 kV Lonikhand-Bus-1 during closing of 220 kV side Circuit Breaker of 400/220 kV Lonikhand-ICT-1 resulting in tripping of all elements connected to 400 kV Lonikhand-Bus-1. Prior to these trippings 400/220 kV Lonikhand-ICT-1 was under shutdown for oil filtraion work. During closing of 220 kV side Circuit Breaker of 400/220 kV Lonikhand-ICT-1, LBB signal was sent by the relay. The defective relay of 400/220 kV Lonikhand-ICT-1 has been replaced by MSETCL. Load loss of 198.5 MW occurred due to the event.	Tripping of following Elements: 1. 400 kV Lonikhand-Bus-1 2. 400/220 kV Lonikhand-ICT-2 3. 400 kV Lonikhand-Pune(PG)-1 4. 400 kV Lonikhand-Lonikhand-2 5. 400 kV Lonikhand-Jeju-2
12	GD-1	WR	12:38 / 09-04-2024	At 12:38 Hrs / 09-04-2024, 220 kV Agar5(Umariya)-Pachora tripped from Agar5(Umariya) end on B phase differential protection operation and auto recloser successful at Pachora substation. Generation loss of 281 MW occurred at Umariya (Beempow) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Agar5(Umariya)-Pachora
13	GI-2	WR	08:08 / 20-04-2024	At 08:08 Hrs / 20-04-2024, R phase Current Transformer of 400 kV Nagda-Badnawar-2 at Nagda burst and Y phase CT also got damaged leading to oil leakage, both R and Y phase tripped. Due to non opening of B phase breaker of 400 kV Nagda-Badnawar-2 at Nagda, LBB (Local Breaker Backup) protection operated in 400 kV Nagda-Bus-1&2 as no other element is in dia of 400 kV Nagda-Badnawar-2. All the main bays connected to 400 kV Nagda-Bus-1&2 opened due to LBB operation. 400 kV Nagda-Mandsaur-1&2, 400 kV Nagda-Shujalpur-1&2, 400 kV Nagda-Dehgam-1&2, 400 kV Nagda-Ujjain-1&2 and 400/220 kV Nagda-ICT-3 were in service through respective tie bays. 400/220 kV Nagda-ICT-4 tripped on B phase differential protection operation due to flashover caused by burnig oil which spread from Y phase CT of 400 kV Nagda-Badnawar-2 in adjacent bay. 400 kV Nagda-Badnawar-1 tripped on B-E fault (Zone-1) due to flashover caused by burnig oil which spread from Y phase CT of 400 kV Nagda-Badnawar-2 in adjacent bay. 400 kV Nagda-Indirasagr tripped due to no other element connected in dia at Nagda end and DT sent to Indirasagar end. 400/220 kV Nagda-ICT-1 tripped because 400 kV Nagda-Bus Reactor was connected in dia at 400 kV Nagda end. At Badnawar end, R phase breaker of 400 kV Nagda-Badnawar-2 didn't open resulting in LBB operation of 400 kV Badnawar-Main Bus-2 and at the same time 400 kV Badnawar-Main Bus-1 tripped on End fault (Busbar) protection operation which was a maloperation. With this 400 kV side of Badnawar substation became dead. Load loss of 22 MW occurred due to the event as the 220 kV network at Nagda and Badnawar were intact.	Tripping of following Elements: 1. 400 kV Nagda-Bus-1&2 2. 400 kV Nagda-Badnawar-2 3. 400/220 kV Nagda-ICT-1&4 4. 400 kV Nagda-Badnawar-1 5. 400 kV Nagda-Indirasagr 6. 400 kV Nagda-Bus Reactor 7. 400 kV Badnawar-Main Bus-1&2 8. 400kV Badnawar-Raigarh-1&2 9. 400 kV Badnawar-Pritampur-1&2 10. 400/220 kV Badnawar ICT-1&2 11. 400 kV Badnawar-Bus Reactor
14	GI-2	WR	20:15 / 23-04-2024	At 20:15 Hrs / 23-04-2024, 400 kV Tiroda-Warora-2 tripped on persistent R-E fault after successful auto recloser attempt.Due to failure of R phase breaker pole of main bay of 400 kV Tiroda-Warora-2 at Tiroda (R-phase pole found cracked), 400 kV Tiroda-Warora-1 tripped from Warora end on Z-2 protection operation and 765 / 400 kV Tiroda-ICT-1 tripped on earth fault protection operation. After 300 msec of tripping of 400 kV Tiroda-Warora-2, Tiroda (Adani) Unit-1,2 & 3 (660 MW*3) tripped due to differential protection operation of GTs on R-E fault which was undesirable.As informed by (Tiroda) Adani, maloperation of the relays of GTs is under inspection and it may be due to CT saturation of GTs due to high fault current as the fault was near to generating station (4 km from Tiroda end). With these trippings 400 kV Tiroda-Bus-1&2 became dead due to no voltage source. As informed by Adani-Tiroda, there were heavy storm and lightning near Tiroda during the event. Generation loss of about 1800 MW occurred at APML Tiroda.	Tripping of following Elements: 1. 400 kV Tiroda-Warora-1&2 2. Tiroda (Adani) Unit-1,2 & 3 (660 MW*3), 3. 765 / 400 kV Tiroda-ICT-1 4. 400 kV Tiroda-Bus reactor-1&2
15	GI-2	WR	13:49 / 26-04-2024	At 13:49 Hrs / 26-04-2024, 400 kV Pune(PG)-Bus-2 Y-phase conductor snapped resulting in Busbar protection operation. Prior to the tripping 407 bay (Main bay of 400 kV Pune(PG)-Pune(GIS)-2) at Pune(PG) was under planned shutdown for AMP work, due to this 400 kV Pune(PG)-Pune(GIS)-2 and 400 kV Pune(PG)-Pune(GIS)-3 power flow became zero as they are in same dia at 400 kV Pune(PG). 400/220 kV Pune(PG)-ICT-1&2 tripped from LV side only during bus bar protection operation which is undesirable. As informed by Powergrid, the maloperation of relay is under investigation. Load loss of 976 MW occurred in Pune area due to LTS operation and DLS (Distress Load Shedding) by Maharashtra.	Tripping of following Elements: 1. 400 kV Pune(PG)-Bus-2 2. 400/220 kV Pune(PG)-ICT-1&2
16	GD-1	WR	18:54 / 30-04-2024	At 18:54 Hrs / 30-04-2024, 220 kV Bhuj-Gadhisa tripped due on B-E fault. During patrolling no abnormality was found. Generation loss of 244 MW occurred at Gadhisa (Renew Power) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa

17	GD-1	WR	23:21 / 01-05-2024	At 23:21 Hrs / 01-05-2024, 220 kV Bhuj-Baranda-1 tripped on 3 phase to ground fault due to falling of spare conductor of 220 kV Bhuj-Dayapar-D/C on 220 kV Bhuj-Baranda-1 near Bhuj gantry . At the same time 220 kV Bhuj-Gadhisa-1 tripped at Gadhisa end only. Generation loss of 132 MW and 35 MW occurred at Gadhisa (Renew Power) and Baranda (Avikiran) respectively due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Baranda-1 2. 220 kV Bhuj-Gadhisa-1
18	GI-2	WR	10:46 / 03-05-2024	At 10:46 Hrs / 03-05-2024, busbar protection operation in 400 kV Satpura-Bus-1 (Double main and transfer bus scheme) resulted in tripping of all elements connected to 400 kV Satpura-Bus-1 (400 kV Satpura-Koradi-1, 400 kV Satpura-Indirasagar-1, 400 kV Satpura-Itarsi-1, 400 kV Satpura-Astha-1 and Satpura Unit-11 (250 MW)). Busbar protection maloperated as there was no fault signature present in nearby PMUs. Detailed investigation of relay maloperation is being done by MPPTCL. Generation loss of 250 MW occurred due to the tripping of Satpura Unit-11 during the event.	Tripping of following Elements: 1. 400 kV Satpura-Bus-1 2. 400 kV Satpura-Koradi-1 3. 400 kV Satpura-Indirasagar-1 4. 400 kV Satpura-Itarsi-1 5. 400 kV Satpura-Astha-1 6. Satpura Unit-11 (250 MW)
19	GD-1	WR	10:49 / 10-05-2024	At 10:49 Hrs / 10-05-2024, 220 kV Bhavsingpura-Khandwa tripped from Khandwa end only due to relay maloperation. Generation loss of 248 MW occurred at Bhavsingpura and Kanwani (Masaya Solar) Solar power plants respectively, due to the loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhavsingpura-Khandwa 2. 220 kV Bhavsingpura-Kanwani
20	GI-2	WR	15:47 / 13-05-2024	At 15:47 Hrs / 13-05-2024, 220 kV Kalwa-Bus-2 and all connected elements tripped due to LBB operation of 220 kV Kalwa-DCHI due to non-quenching of arc of Circuit Breaker. At the same time, 220 kV Kharghar-Khandeshwar tripped on differential protection operation on R-B-E phase to phase to earth fault. At 15:53 Hrs / 13-05-2024, 400/220 kV Kharghar ICT-2 tripped on the operation of the Oil Surge Relay, resulting in LTS operation in 400/220 kV Kharghar ICT-1. At the time of tripping heavy winds and rains were reported and many elements at Kalwa and Kharghar region tripped on transient faults. +/- 500 kV HVDC-Chandrapur-Padghe-1&2 tripped at 16:07 and 16:10 hrs / 13-05-2024 respectively due to voltage dip on transient faults. Load loss of 348 MW occurred at Mumbai and MMR (Mumbai Metropolitan Region) due to LTS operation.	Tripping of following Elements: 1. 220 kV Kalwa-DCHI 2. 220kV Kalwa-Bus-2 3. 220 kV Kalwa-Salsette-3 4. 220 kV Kalwa-Mulund-1&2 5. 220 kV Kalwa-Borivali 6. 220kV Kalwa-TIFL 7. 400/220 kV Kalwa-ICT-1&2 (500 MVA) 8. 400/220 kV Kharghar-ICT-2 (315 MVA) 9. +/- 500 kV HVDC-Chandrapur-Padghe-1&2 10. 220 kV Kharghar-Khandeshwar-2 11. 220 kV Kharghar-Borivali-2
21	GI-2	WR	19:33 / 13-05-2024	At 19:33 Hrs / 13-05-2024, 400 kV Charanka-Varsana-1 tripped on Y-E fault from Charanka end only and auto recloser was successful at Varsana end. At the same time, 400 kV Veloda-Charanka-1 tripped on R-E fault. 400 kV Veloda-Charanka-2 tripped from Veloda end on R-E fault and the Circuit Breaker at Charanka end didn't open due to problem in breaker. Due to this, 400 kV Charanka-Kansari-1&2 tripped on Z-3 operation from Kansari end. 400/220 kV Charanka-ICT-1&2 tripped due to Backup earth fault protection operation. With these trippings 400 kV Charanka became dead and 220 kV Charanka was intact. At the time of tripping heavy wind and thunderstorms were reported. No Generation or Load loss occurred due to the event.	Tripping of following Elements: 1. 400 kV Charanka-Varsana-1 2. 400 kV Veloda-Charanka-1&2 3. 400 kV Charanka-Kansari-1&2 4. 400/220 kV Charanka-ICT-1&2
22	GI-1	WR	19:52 / 13-05-2024	At 19:52 Hrs / 13-05-2024, 220 kV CHPH-RBPH-1&2 tripped due to a lightning strike on the ATR gantry at SSP. At the same time, 400/220 kV SSP-ICT-1 tripped on differential protection operation due to the grounding of the lightning strike. 400/220 kV SSP-ICT-2 tripped on neutral over current protection operation. Generation loss of 72 MW occurred due to tripping of SSP-CHPH-Unit-1&2 (50 MW) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV CHPH-RBPH-1&2 2. 400/220 kV SSP-ICT-1&2 3. SSP-CHPH-Unit-1&2 (50 MW)
23	GD-1	WR	16:26 / 15-05-2024	At 16:26 Hrs / 15-05-2024, 220 kV Bhuj II-Nakhatrana tripped on Y-E fault due to insulator decapping at Tower location 37. Generation loss of 68 MW occurred at Nakhatrana and Dedhiya Wind Power Plant (Adani) due to the loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Nakhatrana 2. 220 kV Nakhatrana-Dedhiya
24	GD-1	WR	22:12 / 15-05-2024	At 22:12 Hrs / 15-05-2024, 220 kV Bhuj-Baranda tripped on R-E fault and at same time 220 kV Bhuj-Gadhisa tripped from Gadhisa end only on R-E fault due to falling of earth wire of 220 kV Bhuj-Dayapar at 220 kV Bhuj. Generation loss of 85 MW (71 MW at Gadhisa (Renew Power) and 14 MW at Baranda (Avikiran) occurred at Gadhisa and Baranda Wind Power Plant respectively due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa 2. 220 kV Bhuj-Baranda
25	GD-1	WR	16:54 / 16-05-2024	At 16:54 Hrs / 16-05-2024, 220 kV Bhuj-Kotda Madh tripped due on B-E fault. During patrolling no abnormality was found. Generation loss of 75 MW occurred at Kotda Madh (Alfanar) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Kotda Madh
26	GI-1	WR	23:34 / 20-05-2024	At 23:34 Hrs / 20-05-2024, Y phase suspension string of flyover span of line side CT of 220 kV Kondhwa-Jejuri flashed over at Jejuri end, the fault was not cleared in zone-1 protection and was being fed from all lines and ICTs connected at 220 kV Jejuri substation. Due to this bus coupler tripped on backup to busbar protection operation after 200 msec (definite time delay) isolating 220 kV Jejuri-Bus-1&2. Y phase of 220 kV Lonand-Jejuri-1 tripped on Z-1 distance relay operation at Jejuri end although the fault was in reverse direction and later R phase tripped after 500 msec. This tripping was undesirable and the relay maloperated. After the isolation of 220 kV Jejuri buses 220 kV Kondhwa-Jejuri was connected through 220 kV Jejuri Bus-1, but all the lines connected to 220 kV Jejuri-Bus-2 (220 kV Jejuri-Barmati, 220 kV Jejuri-Phursangi-2, 220 kV Jejuri-Jejuri(II)-2) tripped on Z-1 distance protection operation (the relays over reached) and autorecloser cycle was initiated. Further tripping of 220 kV Jejuri-Phursangi-2 initiated LBB protection and after 200 msec all elements connected to 220 kV Jejuri-Bus-2 tripped. The operation of LBB was undesirable. Remote ends of the lines 220 kV Jejuri-Phursangi-1 and 220 kV Lonand-Jejuri-1 tripped on Z-2 distance protection. After 550 msec of the first fault appearance, a fault occurred in the R phase of 220 kV Kondhwa-Jejuri resulting in Z-1 R-Y phase-phase fault operation. With the tripping of 220 kV Kondhwa-Jejuri, 220 kV Parvati-Phursangi tripped on overcurrent protection operation due to overloading and LTS stage-1 operation. Only 220 kV Jejuri-Jejuri(II)-1 and 400/220 kV Jejuri-ICT-1 were in service Load loss of 140 MW occurred at Kothrud, NCL, and Kondhwa region due to LTS operation. Also, the correct auto-closing of the 220 kV Lonikhand-Lonikhand(II) interconnector saved the LTS operation in 400/220 kV Lonikhand(I)-ICTs which were overloaded due to these trippings.	Tripping of following Elements: 1. 220 kV Jejuri Bus 2 2. 220 kV Jejuri-Barmati 3. 220 kV Jejuri-Jejuri(II)-2 4. 220 kV Jejuri-Parvati 5. 220 kV Jejuri-Phursangi-1&2 6. 220 kV Kondhwa-Jejuri 7. 220 kV Lonand-Jejuri-1 8. 400/220 kV Jejuri-ICT-2&3
27	GI-1	WR	02:02 / 22-05-2024	At 02:02 Hrs / 22-05-2024, Bus protection mal-operated in 220 kV Chhhegaon-Bus-1 due to fault in 220 kV Chhegaon-Saktapur circuit resulting in tripping of all connected elements. On Investigation it was found that the polarity of connection use for Bus bar protection from 220 kV Chhegaon-Saktapur was reversed, resulting in bus bar protection operation. No load loss occurred, as all other elements were in service through 220 kV Chhhegaon-Bus-2.	Tripping of following Elements: 1. 220 kV Chhhegaon-Bus-1 2. 220 kV Chhegaon-Saktapur 3. 220 kV Chhegaon-Singaji-1 4. 220 kV Chhegaon-Nimrani-1 5. 220 kV Chhegaon-Khandwa-1
28	GD-1	WR	17:59 / 28-05-2024	At 17:59 Hrs / 28-05-2024, Failure of R phase Bus-1 side isolator chamber at 220 kV Gorai GIS led to bus bar protection operation in 220 kV Gorai-Bus-1&2 and tripping of all connected elements. Load loss of 99 MW was reported by SLDC Maharashtra in the Gorai area due to the event. However, from the demand curves of Maharashtra and Mumbai from SCADA, the instantaneous load loss of around 2000 MW and 1000 MW was observed in the Maharashtra and Mumbai control area, out of which around 500 MW recovered within 5 minutes of the tripping. The same was evident from the PMU plots, wherein frequency rose to 0.15 Hz during the above incident and the Phase voltage of Kalwa dipped from 230 kV to 110 kV. It is suspected that induction machines during severe voltage dip might have stalled resulting in demand reduction and after fault clearance might have started automatically (demand started increasing in a few seconds itself after fault clearance). Also, some machines might have stopped and had to be started manually as restoration took longer than normal. SLDC Maharashtra has reported load drop of 1045 MW in the Mumbai Control area. The load loss calculated using ICTs loading at the Maharashtra control area was 1587 MW.	Tripping of following Elements: 1. 220 kV Gorai-Versova 2. 220 kV Gorai -Ghodbunder 3. 220 kV Gorai-Borivali-1&2 4. 220 kV Gorai-Bus-1&2 5. 220/33 kV Gorai-ICT-1&2 (125 MVA)
29	GI-2	WR	00:21 / 29-05-2024	At 00:21 Hrs / 29-05-2024, Failure of Bus bar CVT at 400 kV Raigarh- led to tripping of 400 kV Raigarh-Bus-2 on Busbar protection operation. During the Busbar operation, R phase pole of 400 kV Raigarh-Jharsuguda-3 stuck and didn't open and fumes from failed CVT led to tripping of 400 kV Raigarh-Jharsuguda-3 on Local Breaker Backup (LBB) protection operation. At same time, fumes from CVT created flashover on line side of 400 kV Raigarh-Jharsuguda-1 resulting in its tripping. No generation / load loss occurred due to the event	Tripping of following Elements: 1. 400 kV Raigarh-Bus-2 2. 400 kV Raigarh-Jharsuguda-1&3
30	GI-2	WR	12:02 / 29-05-2024	At 12:02 Hrs / 29-05-2024, 400 kV Chorania-Asoj-2 tripped due to wavetrap jumper broken at Chorania end. At the same time 400 kV Chorania-Amreli-1 and 400 kV Chorania-Hadala-1 tripped from remote ends only due to overreaching of relays. During investigation of the relays at Amreli and Hadala by Gujarat the compensation factor was found to be higher same has been changed and under investigation. Wind generation loss of around 408 MW occurred in Chorania area due to the event.	Tripping of following Elements: 1. 400 kV Chorania-Amreli-1 2. 400 kV Chorania-Hadala-1 3. 400 kV Chorania-Asoj-2
31	GI-1	WR	22:48 / 29-05-2024	At 22:48 Hrs / 29-05-2024, R phase CT burst of 220/132 kV Chhattarpur-ICT-1 resulted in busbar protection operation in 220 kV Chhattarpur-Main Bus and tripping of all connected elements. Load loss of around 35 MW occurred at Chhattarpur area due to the event.	Tripping of following Elements: 1. 220 kV Chhattarpur-Main Bus 2. 220 kV Chhattarpur-Satna(MP) 3. 220 kV Chhattarpur-Satna(PG) 4. 220 kV Chhattarpur-Tikamgarh 5. 220/132 kV Chhattarpur-ICT-1&2 (160 MVA)

32	GD-1	WR	18:20 / 30-05-2024	At 18:20 Hrs / 30-05-2024, R phase CT of 220 kV Birsingpur-Jabalpur-2 at Birsingpur burst resulting in multiple trippings at 220 kV Birsingpur. Busbar protection module was out of service since 17-11-2021, which was not intimated to WRLDC. 220 kV Birsingpur-Jabalpur-1 tripped from Birsingpur on Z-1 operation which is maloperation and tripped on Z-2 operation from remote end. 220 kV Birsingpur-Sanjay Gandhi TPS(IC)-2,3&4 tripped correctly on Z-4 operation and tripped on Z-1 operation from remote end. 220 kV Birsingpur-Sanjay Gandhi TPS(IC)-1 hand tripped at Birsingpur end and tripped on Z-1 operation from remote end. 220 kV Birsingpur-Nowrozabad Traction-1&2 and 220 kV Birsingpur-Hydel Feeder hand tripped at Birsingpur end and were holding from remote end. Generation loss of 420 MW occurred due to tripping of Sanjay Gandhi-Unit-1&2 (210 MW) on heavy voltage dip.	Tripping of following Elements: 1. 220 kV Birsingpur-Jabalpur-1&2 2. 220 kV Birsingpur-Nowrozabad Traction-1&2 3. 220 kV Birsingpur-Hydel Feeder 4. 220 kV Birsingpur-Sanjay Gandhi TPS(IC)-1,2,3&4 5. 220/132 kV Birsingpur-ICT-1 (160 MVA) 6. Sanjay Gandhi-Unit-1&2 (210 MW)
33	GD-1	WR	22:25 / 31-05-2024	At 22:25 Hrs / 31-05-2024, Flashover of Y phase CT of Tie bus resulted in tripping of all connected lines on Z-2 from remote ends only. 220/132 kV Suhela-ICT-1 tripped on earth fault protection operation. Non operation of Busbar protection is under investigation by CSPTCL. Load loss of 700 MW occurred at 220 kV Suhela, 220 kV Paraswani, 220 kV Bemetara and other down stream network.	Tripping of following Elements: 1. 220 kV Suhela-Paraswani-1&2 2. 220 kV Suhela-Bemetara-1&2 3. 220 kV Suhela-Bhatapara(CG) 4. 220 kV Suhela-Bhatapara(PG)-1,2&3 5. 220 kV Suhela-DSPM 6. 220 kV Suhela-Banari 7. 220/132 kV Suhela-ICT-1
34	GD-1	WR	00:26 / 01-06-2024	At 00:26 Hrs / 01-06-2024, 220 kV Bhuj-Baranda-1 tripped on 3 phase to ground fault due to falling of spare conductor of 220 kV Bhuj-Kotda Madh on 220 kV Bhuj-Baranda-1 near Bhuj gantry . Simultaneously 220 kV Bhuj-Gadhisa-1 tripped due to maloperation of relay. Generation loss of 196 MW and 145 MW occurred at Gadhisa (Renew Power) and Baranda (Avikiran) respectively due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Baranda 2. 220 kV Bhuj-Gadhisa
35	GD-1	WR	01:28 / 05-06-2024	At 01:28 Hrs / 05-06-2024, 220 kV Raipur-Serisha tripped from Serisha end only due to relay maloperation at Serisha end. Maloperation of relay is under investigation by Serisha. No generation loss occurred at Serisha Solar Power plant (due to night hours) during above tripping.	Tripping of following Elements: 1. 220 kV Raipur-Serisha 2. 220/33 kV Serisha-ICT-1 3. 220 kV Serisha-Main Bus
36	GD-1	WR	23:07 / 05-06-2024	At 23:07 Hrs / 05-06-2024, 220 kV Bhuj-Baranda-1 tripped on 3 phase to ground fault due to falling of spare conductor of 220 kV Bhuj-Kotda Madh on 220 kV Bhuj-Baranda-1 near Bhuj gantry. B phase wavetrap of 220 kV Bhuj-Baranda blasted at Bhuj end. Simultaneously, 220 kV Bhuj-Gadhisa-1 tripped due to relay maloperation. Fault was in Z2 but Z2 didn't pickup and line tripped. Generation loss of 99 MW and 50 MW occurred at Gadhisa (Renew Power) and Baranda (Avikiran) respectively due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Baranda 2. 220kV Bhuj-Gadhisa
37	GD-1	WR	06:03 / 09-06-2024	At 06:03 hrs / 09-06-2024, 220 kV Vasai(TP)-Nalasopara (220 kV Padghe-Nalasopara TAP at Vasai) tripped on B-E fault. Prior to the tripping, 220 kV Boisar(PG)-Panchali was under planned shutdown. 220 kV Nalasopara is being fed through two links, Padghe-Vasai(TP)-Nalasopara and Boisar(PG)-Panchali-Palghar-Nalasopara. With the tripping of 220 kV Vasai(TP)-Nalasopara, Nalasopara substation became dark. Heavy rains and thunderstorms were reported at the time of tripping. Load loss of 75 MW occurred at Nalasopara during the event.	Tripping of following Elements: 1. 220 kV Vasai(TP)-Nalasopara
38	GD-1	WR	13:10 / 12-06-2024	At 13:10 hrs / 12-06-2024, 220 kV Nakhatrana-Dedhiya tripped on earthfault (as informed in real time by Nakhatrana (Adani)). However as seen from relay and PMU no fault indication is present the tripping was due to maloperation. Generation loss of 143 MW occurred at Dedhiya (Adani) wind power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Nakhatrana-Dedhiya
39	GD-1	WR	18:16 / 13-06-2024	At 18:16 hrs / 13-06-2024, 400 kV JPL Stage-1-Tannar tripped on Z-1 protection operation due to flashover occurred in tie breaker of 400 kV JPL Stage-1-Tannar and 400 kV JPL Stage-1-JPL Stage-2 due to lightning strike. At the same time 400 kV JPL Stage-1-Raipur-1&2 tripped, no fault signature was present as seen from disturbance recorders. All four units at JPL stage-1 (250MW) tripped on over frequency protection operation. Generation loss of 1095 MW occurred at JPL (Jindal) Stage-1 and JSDCPP. Load loss of 350 MW occurred in Gerwani of Chhattisgarh control area.	Tripping of following Elements: 1. 400 kV JPL Stage-1-Raipur-1&2 2. 400 kV JPL Stage-1-Tannar 3. 400 kV JPL Stage-1-JPL Stage-2 4. 220 kV JPL Stage-1-Gerwani 5. 220 kV JPL Stage-1-DCPP 6. JPL Stage-1 Unit-1,2,3&4 (250 MW) 7. JSDCPP Unit 3&4 (135 MW)
40	GD-1	WR	11:32 / 17-06-2024	At 11:32 hrs / 17-06-2024, 400/33kV Korba NTPC Tie Transformer-1 tripped on directional Earth fault protection operation. This led to the tripping of 33 kV Bus-A at Korba(NTPC), which was feeding the auxiliaries of Korba(NTPC)-Unit-1,2&3 (210 MW). Prior to the tripping 220 Korba(W)-Bus-1 was under planned shutdown and 220 Korba(W)-Bus-2 tripped while shifting of feeders on 220 Korba(W)-Bus-2. As per PMU plot fault persisted for 440 msec due to which 400/33kV Korba NTPC Tie Transformer-1 tripped on directional Earth fault. As informed by NTPC Korba no indication in relays of 400 kV Korba(NTPC)-Korba(W) was present. 220 Korba(W) substation became dark. Simultaneously, 220 kV Amarkantak-Annpur-2 tripped on overcurrent protection operation. Prior to the tripping, 220 kV Amarkantak-Annpur-1 was under planned shutdown. Due to tripping of units at Korba(NTPC), Korba(E), DSPM and 220 kV Korba-Churri-2, the load of Kotmikala was fed through 220 kV Annpur, resulting in overloading of 220 kV Amarkantak-Annpur-2. With these Annpur and Kotmikala became dark (Elements handtripped due to no load). 220 kV Kotmikala-Churri-1&2 were out to control loading on 220 kV Annpur-Amarkantak-2. Generation loss of 500 MW at Korba(NTPC), 136 MW at Korba(W) and 440 MW at DSPM(Korba East Extension) occurred due to the event. Load loss of 250 MW occurred at Kotmikala, Churri.	Tripping of following Elements: 1. 220 kV Annpur-Amarkantak-2 2. 400/33 kV Korba(NTPC) Tie Transformer-1 3. Korba(NTPC)-Unit-1,2&3 (210 MW) 4. 220 kV Korba(W)-Bus-2 5. 400/220 kV Korba(W)-ICT-1 6. 220 kV Churri-Korba(W)-1&2 7. 220 kV Korba(W)-Mopka-1 8. 220 kV Korba(E)-Korba(W)-1&2 9. 220 kV DSPM-Korba(W) 10. 220 kV Churri-Kotmikala-1&2
41	GD-1	WR	13:54 / 17-06-2024	At 13:54 hrs / 17-06-2024, Mahan Energen-Unit-1&2 (600 MW) tripped on overfrequency operation. At the time of tripping grid frequency was around 50.63 Hz. At 13:53 Hrs / 17-06-2024, net load loss of 9725 MW occurred in the Grid. The incident occurred immediately after tripping of both bipolar of HVDC Champa-Kurukshetra which was carrying 4,500 MW from the WR to NR. After tripping of the HVDC link, low voltages were observed across the Northern region and multiple lines and generation tripping occurred. Generation loss of 1117 MW occurred at Mahan Energen (Adani) Thermal Plant during the event. No load loss occurred in Western Region.	Tripping of following Elements: 1. Mahan Energen-Unit-1&2 (600 MW) 2. HVDC Champa-Kurukshetra Pole-1,2,3&4
42	GI-2	WR	03:15 / 18-06-2024	At 03:15 hrs / 18-06-2024, Y phase CT failure of Main bay of 400 kV RGPPD Dabhol-Nagothane-2 at RGPPD Dabhol resulted in Bus bar protection operation of 400 kV RGPPD Dabhol-Bus-1. 400 kV RGPPD Dabhol-Nagothane-2 and Main bays connected to 400 kV RGPPD Dabhol-Bus-1 tripped. RGPPD-Dabhol-GT-3X tripped as both Main and Tie bay of RGPPD Dabhol-Unit-3B which was in Dia of RGPPD Dabhol-GT-3X were open due to unit outage. As the Module-3 was running in half module mode RGPPD-Dabhol-Unit-3A also tripped. Generation loss of 200 MW occurred at RGPPD Dabhol Gas Power Plant during the event.	Tripping of following Elements: 1. 400 kV RGPPD Dabhol-Nagothane-2 2. 400 kV RGPPD Dabhol-Bus-1 3. RGPPD Dabhol-GT-3X 4. RGPPD Dabhol-Unit-3A
43	GI-2	WR	08:11 / 22-06-2024	At 08:11 Hrs / 22-06-2024, 765 kV Padghe-Bus-1 tripped due to DC earth fault in the system. 765/400 kV Padghe-ICT-1 which was in dia with 765 kV Padghe-Bus Reactor tripped. 765/400 kV Padghe-ICT-2 tripped due to CSD relay malfunctioning due to DC earth fault. No load or generation loss occurred during the event.	Tripping of following Elements: 1. 765 kV Padghe-Bus-1 2. 765/400 kV Padghe-ICT-1&2 3. 765 kV Padghe-Bus Reactor
44	GD-1	WR	22:52 / 22-06-2024	At 22:52 Hrs / 22-06-2024, 220 kV Bhuj-Gadhisa tripped on R-E fault due to falling of spare conductor of 220 kV Bhuj-Kotda Madh on 220 kV Bhuj-Gadhisa between location 4&5. Generation loss of 59 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
45	GD-1	WR	21:01 / 23-06-2024	At 21:01 Hrs / 23-06-2024, 220 kV Jamkhambaliya-Khakharda tripped due to Gas density cable got damaged at Jamkhambaliya end. Generation loss of 91 MW occurred at Khakharda (Aprava) Wind Power Plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Jamkhambaliya-Khakharda
46	GD-1	WR	16:36 / 24-06-2024	At 16:36 Hrs / 24-06-2024, 765 kV Khavda-PS-Bhuj-1 tripped on persisting Y-E fault (Auto recloser not attempted at Khavda end). Prior to the event 765 kV Khavda-PS-Bhuj-2 tripped on persisting Y-E fault. With these trippings no evacuation path was present for generation at Khavda PSS-1 and Khavda-PSS-2. Generation loss of 27 MW occurred at Khavda-PS connected plants due to loss of evacuation path.	Tripping of following Elements: 1. 765 kV Khavda-PS-Bhuj-1&2
47	GD-1	WR	15:09 / 28-06-2024	At 15:09 Hrs / 28-06-2024, 220 kV Bhuj-Gadhisa tripped on B-E fault due to falling of CT connector at Bhuj End. Generation loss of 66 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
48	GD-1	WR	17:56 / 28-06-2024	At 17:56 Hrs / 28-06-2024, 220 kV Bhuj-Kotda Madh tripped on B-E fault. As informed by Kotda Madh, the tripping was done by some miscreants. Generation loss of 113 MW occurred at Kotda Madh (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Kotda Madh
49	GD-1	WR	23:37 / 30-06-2024	At 15:09 Hrs / 28-06-2024, 220 kV Bhuj-Gadhisa on B-E fault. During patrolling no abnormalities were found. Generation loss of 28.5 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
50	GD-1	WR	07:33 / 02-07-2024	At 07:33 Hrs/02-07-2024, 220kV Bhuj- Nakatrana line tripped on B-N fault due to insulator failure near tower no. 1 from Nakatrana end. Due to loss of evacuation path, wind generation loss of 282.07 MW occurred at Nakatrana & Dediya WPP.	Tripping of following Elements: 220 kV Bhuj-II-Nakatrana-1
51	GD-1	WR	06:25 / 05-07-2024	At 06:25 Hrs/05-07-2024, 220kV Bhuj- Kotda Madh (Netra) line auto reclosed successfully from Bhuj end and tripped at Kotda madh end due to Y-N fault. Due to loss of evacuation path, wind generation loss of 24MW occurred at Kotda Madh (Netra)	Tripping of following Elements: 220 kV Bhuj-Kotda Madh-1
52	GD-1	WR	00:02 / 08-07-2024	At 00:02 Hrs/08-07-2024, 220kV Bhuj- Gadhisa line tripped on R-Y fault due to falling of Nirona-Junacay line conductor. Due to loss of evacuation path, generation loss of 120MW occurred at Gadhisa WPP.	Tripping of following Elements: 220 kV Bhuj-Gadhisa-1

53	GD-1	WR	15:47 / 09-07-2024	At 15:47 Hrs/09-07-2024, 220 kV Bhuj- Kotda Madh tripped on B-N fault at Bhuj end & on DT receipt at Kotda Madh end. At the same time, 220 kV Bhuj- Nanavalka tripped at Bhuj end only on R-N fault. At the same time, 220kV Bhuj- Gadhsisa tripped at Gadhsisa end only due to maloperation. Due to loss of evacuation path, generation loss of 111 MW, 37.5 MW & 70 MW occurred at Gadhsisa, Nanavalka & Kotda Madh WPPs respectively.	Tripping of following Elements: 220 kV Bhuj-Gadhsisa-1 220 kV Bhuj-Kotda Madh-1 220 kV Bhuj-Nanavalka
54	GD-1	WR	13:26 / 15-07-2024	At 13:26 Hrs/15-07-2024, 400kV-Jabalpur-PS-Jhabua-1 tripped on R-N fault from Jhabua end, A/R successful from Jabalpur end. Ckt-2, Bus-2 and Jhabua Unit-1 were already under planned outage due to annual overhauling work. Therefore, 400 kV Jhabua S/S became dead. No generation loss reported as the Unit was already out.	Tripping of following Elements: 400 kV Jabalpur(PS) - Jhabua - 1 Jhabua - 400KV - Bus 1
55	GD-1	WR	20:03 / 15-07-2024	At 20:03 Hrs/15-07-2024, 220kV Baranda Bhuj tripped on R-N fault from Baranda end, A/R successful from Bhuj end. Due to loss of evacuation path, Baranda Wind RE station went to blackout leading to generation loss of 22 MW.	Tripping of following Elements: 220 kV Bhuj-Baranda-1
56	GD-1	WR	07:23 / 23-07-2024	At 07:23 Hrs/23-07-2024, 220/33 kV Gadhsisa ICT-1 tripped due to operation of Restricted earth fault (REF) Relay, which resulted in loss of evacuation path from 33 kV to 220 kV side as 220/33 kV Gadhsisa ICT-2 was already in tripped condition since 21:15 Hrs/22.07.2024 due to sparking in 33 KV side isolator. About 120 MW wind generation loss occurred at 220 kV Gadhsisa WPP.	Tripping of following Elements: 220kV/33kV Gadhsisa-ICT-1
57	GD-1	WR	09:17 / 25-07-2024	At 09:17 Hrs 220kV Nakhatrana-Bhuj-II-1 tripped on Y-N fault due to Y-Phase Disc Insulator failure on Tower No.22 from Nakhatrana side. Generation loss of 253.16 MW occurred due to loss of evacuation path.	Tripping of following Elements: 220 kV Bhuj-II-Nakhatrana-1
58	GD-1	WR	11:33 / 25-07-2024	At 11:33 Hrs/25.07.2024, 220kV Srijan Morjar-Bhuj-II-1 tripped on Z-2, R-N fault at Srijan end only. No indications received. Generation loss of 95 MW occurred due to loss of evacuation path.	Tripping of following Elements: 220kV Srijan Morjar-Bhuj-II-1
59	GD-1	WR	17:33 / 25-07-2024	At 17:33 Hrs/25.07.2024 220kV Srijan Morjar – Bhuj-II-1 tripped on R-N fault at Srijan end. During inspection by Srijan, main 2, R phase voltage was not available as loose connection identified in Terminal Box, which was tightened. Generation loss of 113.7 MW occurred due to loss of evacuation path.	Tripping of following Elements: 220kV Srijan Morjar-Bhuj-II-1
60	GD-1	WR	16:46 / 29-07-2024	At 16:46 Hrs/29.07.2024, 220kV Vagchhipa-Sayali Ckt & 220kV Khadoli-Sayali Ckt tripped on Zone-2, Y-B Fault and 220kV Sayali Switching Substation became dead. After Line patrolling by DNH, Y-phase jumper found broken of 220kV Sayli-Khadoli line at tower location no.28. This resulted in complete load loss of 220kV Alok Industries Ltd. Total Load loss of around 131MW reported.	Tripping of following Elements: 220kV Vagchhipa-Sayali Ckt 220kV Khadoli-Sayali Ckt 220kV Sayali- Alok Industries Ltd.
61	GD-1	WR	16:41 / 01-08-2024	At 16:41 Hrs / 01-08-2024, 220 kV Bhuj-Nanavalka tripped on R-E fault after auto recloser attempt. It is seen that Auto recloser attempt taken from Bhuj End only and three phase trip issued at Nanavalka end for single phase fault. Generation loss of 230 MW occurred at Nanavalka (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Nanavalka
62	GD-1	WR	03:47 / 02-08-2024	At 03:47 Hrs / 02-08-2024, 220 kV Bhuj-Naranpar tripped on R-E fault at Bhuj end only. Generation loss of 238 MW occurred at Naranpar (GIWEL-3) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Naranpar
63	GD-1	WR	09:36 / 06-08-2024	At 09:36 Hrs / 06-08-2024, 220 kV Bhuj II-Nakhatrana tripped on R-E fault after unsuccessful Auto recloser attempt. At the time of patrolling, R Phase disc insulator failure observed at location 45. Generation loss of 300 MW occurred at Nakhatrana and Dedhiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Nakhatrana
64	GD-1	WR	13:59 / 07-08-2024	At 13:59 Hrs / 07-08-2024, 220kV Bhuj-Ratadiya-1 tripped on Y-E fault. Simultaneously, 220kV Bhuj-Ratadiya-2 tripped on under voltage protection operation. At the time of patrolling, Y phase jumper found open at location 165. Generation loss of 436 MW occurred at Ratadiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220kV Bhuj-Ratadiya-1&2
65	GI-2	WR	09:14 / 08-08-2024	At 09:14 Hrs / 08-08-2024, 400 / 33 kV KSTPS-Tie Transformer-4 tripped from LV side on Restricted Earth Fault, smoke observed in LV side terminal box. Due to non opening of R phase breaker at 400 kV side, LBB operated resulting in tripping of 400 kV KSTPS-Bus-2 (Double Main and Transfer Bus) and all connected elements. Generation loss of 560 MW occurred at Korba-NTPC Thermal Power Plant due to the event.	Tripping of following Elements: 1. 400 / 33 kV KSTPS-Tie Transformer-4 2. 400 kV KSTPS-Bus-2 3. 400kV KSTPS-Bhilai-2 4. KSTPS-Unit-1,2&3 (210 MW occurred at)
66	GD-1	WR	11:17 / 11-08-2024	At 11:17 Hrs / 11-08-2024, 220 kV Bhuj II-Morjar (Srijan) tripped on Zone-2 distance protection operation on Y-E fault. During inspection it was found that, Y phase voltage was not seen by relay. The same was corrected and line was charged. PMU data stopped immediately after the line tripping indicating failure of back supply or absence of backup supply at station. Generation loss of 131 MW occurred at Morjar (Srijan) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Morjar (Srijan)
67	GI-2	WR	05:09 / 12-08-2024	At 05:09 Hrs / 12-08-2024, 400/220 kV Dhule(MH)-ICT-3 tripped on differential protection operation due to blasting of Y phase bushing. 400/220 kV Dhule(MH)-ICT-1 tripped on Backup to Earth Fault protection operation. 400 kV Dhule(MH)-Khandwa-1 tripped on Over voltage stage-1 protection operation which was a maloperation. 400 kV Dhule(MH)-Dhule(BDTCL)-2 tripped on Z-4 protection operation at Dhule(MH) end and Z-2 protection operation at Dhule(BDTCL) end. 400 kV Dhule(MH)-SSP-2 tripped on Z-4 protection operation at Dhule(MH) end and Z-1 protection operation at SSP end (tripping on Z-1 at SSP) which was a maloperation. 400 kV Dhule(MH)-Bableswhwar-2 tripped on Z-2 protection operation at Bableswhwar end. Ideally the fault should have been cleared on LBB protection operation, but LBB protection not operated. Load loss of 70.06 MW occurred at occurred due to LTS stage-1 and LTS stage-2 operation due to 400/220 kV Dhule(MH)-ICT-1&3.	Tripping of following Elements: 1. 400/220 kV Dhule(MH)-ICT-3 2. 400/220 kV Dhule(MH)-ICT-1 3. 400 kV Dhule(MH)-Khandwa-1 4. 400 kV Dhule(MH)-Dhule(BDTCL)-2 5. 400 kV Dhule(MH)-SSP-2 6. 400 kV Dhule(MH)-Bableswhwar-2
68	GD-1	WR	21:49 / 12-08-2024	At 21:49 Hrs / 12-08-2024, 220 kV STT-Mahape and 220 kV STT-TIFIPL tripped on differential protection operation due to R phase lightning arrester of 220 kV STT-Mahape burst at STT substation. Tripping of 220 kV STT-TIFIPL for a fault in 220 kV STT-Mahape is undesirable. No load loss occurred due to the event.	Tripping of following Elements: 1. 220 kV STT-Mahape 2. 220 kV STT-TIFIPL
69	GD-1	WR	11:42 / 17-08-2024	At 11:42 Hrs / 07-08-2024, 220 kV Jamkhambaliya-Khakharda tripped on R-E fault.During patrolling R phase insulator failure was observed. Generation loss of 187 MW occurred at Khakharda (Apraava) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Jamkhambaliya-Khakharda
70	GD-1	WR	02:24 / 19-08-2024	At 02:24 Hrs / 19-08-2024, 220 kV Bhuj II-Nakhatrana tripped on Y-E fault after unsuccessful autoreclose attempt. During patrolling Y phase insulator failure was observed at Tower location 51. Generation loss of 47 MW occurred at Nakhatrana and Dedhiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Nakhatrana
71	GD-1	WR	12:24 / 19-08-2024	At 12:24 Hrs / 19-08-2024, 220 kV Jamkhambaliya-Sidhpur tripped on Y-E fault, 3 phase tripped for fault in 1 phase which is undesirable, also Auto Recloser block signal was active. During patrolling Y phase insulator failure was observed at Tower location 59. Generation loss of 9.6 MW occurred at Sidhpur (Torrent) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Jamkhambaliya-Sidhpur
72	GI-2	WR	23:48 / 19-08-2024	At 23:48 Hrs / 19-08-2024, Y phase CT of 400 kV Kansari-Bus Coupler towards 400 kV Kansari-Bus-2 side failed, resulting in Bus Bar protection operation and tripping of 400 kV Kansari-Bus-2 and all connected elements. After 2 seconds the smoke from failed CT reached 400 kV Kansari-Bus-1 resulting in Bus Bar protection operation and tripping of 400 kV Kansari-Bus-1 and all connected elements. 400 kV Kansari-Bus-1: 400/220 kV Kansari-ICT-3&4, 400 kV Kansari-Soja-1,400 kV Kansari-Banaskantha, 400 kV Kansari-Charanka-1, 400 kV Kansari-Kankroli-1 and 400 kV Kansari-B/R-1 400 kV Kansari-Bus-2: 400 kV Kansari-Charanka-2, 400/220 kV Kansari-ICT-1&2, 400 kV Kansari-Kankroli-2 (Bypassed at Bhinamal), 400 kV Kansari-B/R-2. Prior to the trippings, 400 kV Kansari-Soja-1 was under outage for Voltage Regulation. 400 kV Kansari side became dead and 220 kV Kansari was intact. No generation / load loss occurred due to the event.	Tripping of following Elements: 1. 400 kV Kansari-Bus Coupler 2. 400 kV Kansari-Bus-1&2 3. 400 kV Kansari-Charanka-1&2 4. 400 kV Kansari-Banaskantha 5. 400 kV Kansari-Veloda 6. 400 kV Kansari-Soja-1 7. 400 kV Kansari-Kankroli-1 8. 400 kV Kansari-Kankroli-2 (Bypassed at Bhinamal) 9. 400/220 kV Kansari-ICT-1,2,3&4 (315 MVA) 10. 400 kV Kansari-B/R-1&2
73	GD-1	WR	03:54 / 24-08-2024	At 03:54 Hrs / 24-08-2024, 220 kV Chitegaon substation became dead due to Bus-Bar protection operation caused by abrupt closing of 220 KV Hybrid GIS Bus sectionalizer earth switch automatically at Chitegaon end. Load loss of 25 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Chitegaon Main Bus 2. 220 kV Chitegaon Auxillary Bus 3. 220/132 kV Chitegaon-ICT-1,2,3&4 4. 220/33 kV Chitegaon-ICT-1&2 5. 220 kV Chitegaon-Waluj 6. 220 kV Aurangabad(PG)-Chitegaon-1&2
74	GD-1	WR	01:51 / 27-08-2024	At 01:51 Hrs / 27-08-2024, 220 kV Chugger-Bhuj-II-S/c tripped on R-E fault. During patrolling, R phase Jumper found open at Tower location 07 along with failure of insulator. Generation loss of 240 MW occurred at Chugger (Sitac) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Chugger-Bhuj-II-S/c
75	GD-1	WR	16:58 / 27-08-2024	At 16:58 Hrs / 27-08-2024, 220 kV Bhuj-Baranda-S/c tripped on B-E fault. Generation loss of 148 MW occurred at Baranda (ASIPL) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Baranda
76	GD-1	WR	18:52 / 29-08-2024	At 18:52 Hrs / 29-08-2024, 220 kV Bhuj-Naranpar tripped on Y-E fault after auto recloser attempt. At the time of patrolling, Y Phase disc insulator failure observed at location 45. Generation loss of 69 MW occurred at Naranpar (GIWEL-3) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Naranpar
77	GD-1	WR	03:26 / 30-08-2024	At 03:26 Hrs / 30-08-2024, 220 kV Bhuj-Kotda Madh-S/c tripped on B-E fault due to fault occurred during auto recloser reclaim time. Generation loss of 19 MW occurred at Kotda Madh (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Kotda Madh
78	GD-1	WR	05:53 / 30-08-2024	At 05:53 Hrs / 30-08-2024, 220 kV Bhuj-Dayapur-1&2 tripped due to blast in capacitor banks at Dayapur. Blast was due to grounding of PSS DC cable in Capacitor control panel, which resulting in burning of control panel of capacitor banks-1&2, meters, MCCBs. Simultaneously, feeder-8 conductor also fell down within the plant. Generation loss of 98 MW occurred at Dayapur (INOX) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Dayapur-1&2
79	GD-1	WR	06:34 / 30-08-2024	At 06:34 Hrs / 30-08-2024, 220 kV Bhuj-Kotda Madh-S/c tripped on B-E fault after auto recloser attempt. During patrolling rope was found hanging on B-phase conductor. Generation loss of 37.8 MW occurred at Kotda Madh (Netra) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Kotda Madh
80	GD-1	WR	11:40 / 30-08-2024	At 11:40 Hrs / 30-08-2024, 220 kV Chugger-Bhuj-II tripped on B-E fault. At the time of patrolling, insulator failure observed at tower location 147 and 206. Generation loss of 48 MW occurred at Chugger (Sitac) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Chugger-Bhuj-II
81	GD-1	WR	10:35 / 31-08-2024	At 10:35 Hrs / 31-08-2024, 220 kV Nalasopara S/s became dead due to tripping of all elements on busbar protection operation. During the event, switchyard works were going on. 220 kV Palgar-Nalasopara and 220 kV Boisar-Nalasopara tripped from Nalasopara end only, DT was not sent to remote ends which was undesirable. Load loss of 219 MW occurred at Nalasopara Substation due to the event.	Tripping of following Elements: 1. 220 kV Palgar-Nalasopara 2. 220 kV Boisar-Nalasopara 3. 220 kV Nalasopara-ICT-1,2&3

82	GD-1	WR	00:42 / 02-09-2024	At 00:42 Hrs / 02-09-2024, 220 kV Bhuj-Gadhisa tripped on B-E fault. It is observed from DRs that Autorecloser didn't attempt at Gadhisa end for single phase fault and three phase tripped observed at Bhuj End. During patrolling spare conductor of other utility was lying on 220 kV Bhuj-Gadhisa. Generation loss of 20 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
83	GD-1	WR	02:37 / 03-09-2024	At 02:37 Hrs / 03-09-2024, 220kV Sayali-Vapi II-1 & 2 tripped on R-E fault (ckt-1 tripped from Vapi II end only) and 220kV Sayali Switching Substation became dead. As informed by sterile fault was in Z-1 220 kV Sayali-Vapi II-1 (1.1 km from Vapi II end). As seen from DRs, 3 phase trip issued for a single phase fault at vapi end of 220 kV Sayali-Vapi II-1 circuit and line tripped from Vapi end only. Also, 220 kV Sayali-Vapi II-2 tripped on Z-3 distance protection operation at Vapi end without any time delay. The trippings were not in order. Load loss of 73 MW occurred at 220kV Alok Industries Ltd (which is being fed radially through 220 kV Sayli) due to the event.	Tripping of following Elements: 1. 220 kV Vapi II Sayali-1 2. 220 kV Vapi II Sayali-2 3. 220kV Sayali-Alok Industries Ltd 4. Sayali - 220 kV - Bus-1 5. Sayali - 220 kV - Bus-2
84	GI-2	WR	06:50 / 03-09-2024	At 06:50 hrs / 03-09-2024, 400 kV Kakrapar(3&4)-Navsari-ckt-1 tripped on R-E fault at 400 kV Navsari end. Simultaneously, at 400 kV Kakrapar(3&4), 400 kV Kakrapar(3&4)-Navsari-ckt-1 and 400 kV Kakrapar(3&4)- bus2 tripped on LBB protection operation. As seen from PMU plot, fault did not persist for 200 msec, hence LBB protection operation was not in-order. As informed by NPCIL Kakrapar(3&4), the operation of LBB relay was not as per intent. The LBB current element is set at 20 % of C primary = 20 % of 2000 A = 400 A with a time delay of 200 millisecond. During R-E fault on 400 kV Kakrapar(3&4)-Navsari-ckt-1 at 06:50 Hrs, R phase fault got cleared in 95 milliseconds. However, due to relay's internal CB fail element logic issue, by seeing the other 2 phases (Y&B phases) current more than the set value, the relay has initiated LBB trip after 200 milliseconds of LBB initiation. At 07:01 hrs / 03-09-2024, during the outage of 400 kV Kakrapar(3&4)-Navsari-1 (forced outage from 06:50hrs/03.09.2024), loading on 400 kV Kakrapar(3&4)-Navsari-ckt-2 was around 1400 A and Y-Phase dropper melted at KAPS (3&4). 400 kV Kakrapar(3&4)-Navsari-ckt-2 tripped on T-protection. As informed by Kakrapar, 400 kV Kakrapar(3&4)-GT-4 R-phase DS jumper also melted during the event and Turbine-3 tripped due to power swing during the disturbance, resulting in trippings of 400 kV Kakrapar(3&4)-Unit-4&3 (700 MW) respectively. Generation loss of 1267 MW occurred at Kakrapar(3&4) Nuclear Power Plant due to the event.	Tripping of following Elements: 1. 400 kV Kakrapar(3&4)-Navsari(PG)-1&2 2. Kakrapar(3&4) Unit-3&4 (700 MW) 3. 400/21 kV Kakrapar 3&4-GT3 4. 400 kV Kakrapar 3&4 Bus-2
85	GD-1	WR	22:40 / 03-09-2024	At 22:40 Hrs / 03-09-2024, As informed by Alfanar 220 kV Bhuj-Nanavalka tripped on B-E fault, but is seen from DRs R-B phase to phase fault occurred. During patrolling it was found that the suspension insulator on Tower No. 39/0 B phase and Tower- No 36/0 Y phase Tension insulator had failed. Multiple test charging were taken but line tripped on SOTF it is inferred that thorough patrolling had not been carried out before attempting test charging. Generation loss of 6 MW occurred at Nanavalka (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220kV Bhuj-Nanavalka
86	GI-2	WR	11:42 / 04-09-2024	At 11:42 Hrs / 04-09-2024, 220 kV Bhuj II-Morjar (Srijan) tripped on R-E fault. During patrolling it was found that a tension insulator failed at tower number AP-05A. Generation loss of 31 MW occurred at Morjar (Srijan) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Morjar (Srijan)
87	GD-1	WR	13:10 / 06-09-2024	At 13:09 hrs / 06-09-2024, 220 kV Bhawisingpura-Bus-1 and all connected elements tripped on Bus bar protection operation due to actuation of Overcurrent relay (50/51). 220 kV Bhawisingpura-Kanwani-1, 220 kV Bhawisingpura-Khandwa-1 and 220/33 kV Bhawisingpura-ICT-1 tripped leading to generation loss of 118 MW. Prior to the incident, 220/33 kV Bhawisingpura-ICT-1 tripped on over current protection operation at 12:50 hrs. Generation loss of 269 MW Bhawisingpura and Kanwani (Masaya Solar) Solar Pwer Plant occurred due to the event.	Tripping of following Elements: 1. 220 kV Bhawisingpura-Kanwani-1 2. 220 kV Bhawisingpura-Khandwa-1 3. 220 kV Bhawisingpura-Bus-1 4. 220/33 kV Bhawisingpura-ICT-1
88	GD-1	WR	00:31 / 10-09-2024	At 00:31 Hrs / 10-09-2024, 220 kV Bhuj-Gadhisa tripped on Y-B fault at Bhuj end. During patrolling it was found that Tower Number 46/0 was damaged from Cage section. Generation loss of 59 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa
89	GD-1	WR	17:29 / 11-09-2024	At 17:29 hrs / 11-09-2024, 400 kV Vapi II-Bus-1&2 tripped on bus bar protection operation due to maloperation of Main Control Unit-2 relay and all elements connected tripped from 400 kV Vapi II side only. As informed by Sterile, no abnormalities were found during inspection and the tripping may be due to moisture ingress due to heavy rainfall. 220 kV Sayali station connected to Vapi II became dark due to tripping of 220 kV Vapi II-Sayali-1&2. Load loss of 80 MW occurred at 220kV Alok Industries Ltd (which is being fed radially through 220 kV Sayli) due to the event.	Tripping of following Elements: 1. 400 kV Vapi II-Bus-1&2 2. 400kV Vapi II-Vapi(PG)-1&2 3. 400 kV Kakrapar(3&4)-Vapi II-1&2 4. 400/220 kV Vapi II-ICT-1&2 (500 MVA) 5. 400 kV Vapi II-Bus Reactor 6. 220 kV Vapi II-Sayali-1&2
90	GD-1	WR	17:03 / 15-09-2024	At 17:03 hrs / 15-09-2024, 220 kV Aurangabad-Shendra tripped at 17:03 hrs due to LA blast of 220 kV Aurangabad-Shendra-1 at Shendra end. Details not received from both ends. As informed by SLDC Maharashtra, 220 kV Aurangabad-Shendra-1&2 tripped. Tripping of 220/132 kV Shendra-ICT-1 (100 MVA) and 220/33 kV Shendra-ICT-1&2 (50 MVA) and 220 kV Aurangabad-Shendra-2 may be due to bus bar protection operation. Load loss of 65 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Aurangabad-Shendra-1&2 2. 220/132 kV Shendra-ICT-1 (100 MVA) 3. 220/33 kV Shendra-ICT-1&2 (50 MVA)
91	GI-2	WR	15:31 / 17-09-2024	At 15:31 hrs / 17-09-2024, Bus bar protection operated in 400 kV DGEN-Bus-2 due to failure of LA of 400/220 kV DGEN-ICT-1, resulting in tripping of all connected elements to 400 kV DGEN-Bus-2. No generation loss occurred due to the event.	Tripping of following Elements: 1. 400/220 kV DGEN-ICT-1 2. 400 kV DGEN-Bus-2 3. 400 kV DGEN-Bus Reactor 4. 400/22 kV DGEN-GT-1 5. 400 kV Navsari-DGEN-1
92	GD-1	WR	15:03 / 19-09-2024	At 15:03 hrs / 19-09-2024, 220 kV Dayapur sub-station AC supply cable and DC supply cable of 220/33 kV Dayapur-ICT-1 got punctured resulting in tripping of 220 kV Bhuj-Dayapur-1&2 and 220/33 kV Dayapur-ICT-1,2,3&4. Generation loss of 30 MW occurred at Dayapur () Wind Power Plant due to the event.	Tripping of following Elements: 1. 220 kV Bhuj-Dayapur-1&2 2. 220/33 kV Dayapur-ICT-1,2,3&4
93	GD-1	WR	01:09 / 24-09-2024	At 01:03 Hrs / 24-09-2024, 220kV Bhuj- Gadhisa line tripped on Y-ph to earth fault. During patrolling it was found tower damaged on top section due to conductor theft of spare line on Same tower no T15/0. Generation loss of 59 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220kV Bhuj-Gadhisa
94	GD-1	WR	16:36 / 30-09-2024	At 16:36 hrs / 30-09-2024, 220 kV Kalwa-Gigaplex tripped on Y-E fault due to snapping of conductor. At the same time raise in frequency from 49.996 Hz to 50.044 Hz. Voltage dip in Pune PG and Padghe PMU and dip in Mumbai demand observed. Load loss of around 270 MW was observed (from SCADA). However, Maharashtra has reported that no load loss occurred due to the tripping.	Tripping of following Elements: 1. 220 kV Kalwa-Gigaplex ckt
95	GD-1	WR	02:45 / 01-10-2024	At 02:45 Hrs / 01-10-2024, 220 kV Bhuj-Baranda tripped on B-E fault, Autorecloser not attempted at Baranda end, line tripped at Bhuj end after autorecloser attempt. During patrolling Linger thrown by villagers found at tower location 233. Generation loss of 63 MW occurred at Baranda (Avikiran) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Baranda
96	GI-1	WR	16:40 / 01-10-2024	At 16:40 Hrs / 01-10-2024, LBB protection maloperated of 220 kV Uran-Bus-1 resulting in tripping of all connected elements (as mentioned in elements tripped column). Generation loss of 77 MW and load loss of 14 MW occurred at Uran substation due to the event.	Tripping of following Elements: 1. 220 kV Uran Bus-1 2. Uran U-7 (108 MW) 3. 220 kV Uran-Apta-2 4. 220 kV Uran-Apta-4 5. 220 kV Uran-Ulwe-2 6. 220 kV Uran-ONGC 7. 220/33 kV Uran-ICT-1 (50 MVA)
97	GI-1	WR	09:29 / 07-10-2024	At 09:29 Hrs / 07-10-2024, Bus bar protection operated in 220 kV Haldarwa-Bus-2 (Double Main Bus scheme) due to broken jumper over Y phase Bus side isolator of 220 kV GPEC-Haldarwa-1, resulting in tripping of all the connected elements (as mentioned in elements tripped column). No Generation loss or load loss of occurred to the event.	Tripping of following Elements: 1. 220 kV Gandhar-Haldarwa 2 2. 220 kV Haldarwa-Kawas-2 3. 220 kV Haldarwa-Kakrapar(1&2)-2 4. 220 kV Dahej-Haldarwa-1 5. 220 kV GPEC-Haldarwa-1 6. 220 kV Jambuva-Haldarwa-1 7. 220 kV Suva-Haldarwa 8. 220 kV Haldarwa-Bus-2 9. 220/66 kV Haldarwa ICT-2&3
98	GI-1	WR	23:37 / 08-10-2024	At 23:37 Hrs / 08-10-2024, 220/66 kV Khadoli-ICT-2 tripped due to bursting of 66 kV side Y phase CT causing damage to R and Y phase circuit breakers. After 80 msec, 220/66 kV Khadoli-ICT-1&3 tripped on Earth Fault protection operation. Due to the above trippings of ICTs flow on 220 kV lines connected to Khadoli became zero due to load loss of 444 MW in DNHDD network.	Tripping of following Elements: 1. 220/66 kV Khadoli-ICT-2 2. 220/66 kV Khadoli ICT-1 3. 220/66 kV Khadoli ICT-3
99	GD-1	WR	15:24 / 10-10-2024	At 15:24 Hrs / 10-10-2024, 220kV Nakhatrana-Dedhiya tripped on R-E fault from Nakhatrana end only, Auto recloser successful at Dedhiya end. It is seen from DR at Nakhatrana end that all three phases tripped for a fault in single phase which is a maloperation. During patrolling it was found that R phase conductor fell from suspension insulator clamp at tower location 55. Generation loss of 96 MW occurred at Nakatrana & Dedhiya wind power plant (Adani) due to the event.	Tripping of following Elements: 1. 220kV Nakhatrana-Dedhiya
100	GD-1	WR	13:04 / 11-10-2024	At 13:05 Hrs / 11-10-2024, 220 kV Bhawisingpura- Khandwa tripped on Y-E fault on Z-3 protection operation. The tripping was not in order because instantaneous trip issued at Bhawisingpura end for a fault in Zone-3 in 400 kV Khandwa-Dhule-1 at the same time. 220 kV Bhawisingpura- Kanwani line also tripped after 200 msec without any relay indication. Generation loss of 98 MW occurred at Bhawisingpura and Kanwani solar power plant (Masaya Solar) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhawisingpura-Kanwani-1 2. 220 kV Bhawisingpura-Khandwa-1 3. 220/33 kV Kanwani-ICT-1
101	GD-1	WR	16:43 / 14-10-2024	At 16:43 Hrs / 14-10-2024, 220 kV Nakhatrana-Dedhiya ckt tripped on B Ph-E fault. As seen from DR at Nakhatrana end all 3-phases tripped due to tripping command from main-2 relay, fault was seen in zone-2. As seen from DR at Dhediya end even though fault was seen in zone-3, carrier was sent to Nakhatrana end which is not in order. During patrolling no abnormalities were found. Generation loss of 38 MW occurred at Nakatrana & Dedhiya wind power plant (Adani) due to the event.	Tripping of following Elements: 1. 220 kV Nakhatrana-Dedhiya line 2. 220kV Dedhiya SS Bus-1 3. 220kV Dedhiya SS Bus-2 4. 220/33kV Dedhiya ICT-1 5. 220/33kV Dedhiya ICT-2

102	GD-1	WR	22:20 / 14-10-2024	At 22:20 Hrs / 14-10-2024, 220 kV Bachau-Ostro-1&2 tripped on R-E fault. It is seen from Disturbance recorders at Ostro end that all three phases tripped for a fault in single phase which is a maloperation. During patrolling no abnormalities were found. Generation loss of 140 MW occurred at Ostro (Renew Power) Wind power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bachau-Ostro-1 2. 220 kV Bachau-Ostro-2
103	GD-1	WR	00:29 / 15-10-2024	At 00:29 Hrs /15-10-2024, 220 kV Naranpar(Roha)-Bhuj S/C tripped on B-E fault. During patrolling it was found that tower no.67 and 68 collapsed due to conductor theft by miscreants. No generation loss occurred due to the event.	Tripping of following Elements: 1. 220 kV Naranpar(Roha)- Bhuj
104	GD-1	WR	16:24 / 15-10-2024	At 16:24 Hrs /15-10-2024, 220 kV Vadva-Bhuj S/C tripped on R-E fault from Vadva end only. A/R successful at Bhuj end. During inspection LA counter of transformer increased by 1 indicating presence of surges. Generation loss of 84 MW occurred at Vadva (GIWEL-2) wind power plant due to the event.	Tripping of following Elements: 1. 220 kV Vadva- Bhuj
105	GD-1	WR	07:23 / 18-10-2024	At 07:23 Hrs / 18-10-2024, Bus bar protection operated in 220 kV Raigarh-Bus-1&2 (Double Main and Transfer Bus scheme) due to breaking of jumper of Y phase CT of 220 kV Raigarh-Jindal and felling of conductor of same on 220 kV Raigarh-Auxiliary Bus, resulting in tripping of all connected elements (as mentioned in elements tripped column). Load loss of 726 MW occurred at Raigarh(CG), Saraipalli and associated down stream network due to the event.	Tripping of following Elements: 1. 220 kV Raigarh(PG)-Raigarh(CG)-1,2&3 2. 220 kV Raigarh(CG) Bus-1&2 3. 220 kV Raigarh-Saraipali-1&2 4. 220 kV Raigarh-Gerwani 5. 220 kV Raigarh-JSPL-1&2 6. 220 kV Raigarh-Korba East
106	GD-1	WR	13:02 / 18-10-2024	At 13:02 Hrs /18-10-2024 220kV Umariya (Agar Unit-5) Pachora ckt tripped on Differential protection operation on Y-phase to Earth fault. A/R not operated for single phase fault. During patrolling no abnormalities found. Generation loss of 247 MW occurred at Umariya (Agar) Wind Power Plant due to loss of evacuation.	Tripping of following Elements: 1. 220kV Umariya (Agar)-Pachora
107	GD-1	WR	22:36 / 23-10-2024	At 22:36 Hrs / 23-10-2024 220 kV Bhuj-Gadhisia tripped on B-E fault. During patrolling it was found that Tower got damaged from Top section due to conductor theft of spare line at tower location 13/2. No Generation loss occurred due to the event.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisia
108	GI-2	WR	02:16 / 25-10-2024	At 02:16 hrs / 25-10-2024, Busbar protection operated in 400 kV New Koyana-Bus-2 due to B phase CT blast of 400 kV New Koyana-Karad-1 at Koyana, resulting in tripping of all connected elements (as mentioned in elements tripped column). Two machines at Koyana(4) running in condenser mode also got tripped. No generation or load loss occurred due to the event.	Tripping of following Elements: 1. 400 kV New Koyana Bus-2 2. 400 kV New Koyana-Karad2 3. 400 kV New Koyana-Jaigad-1 4. 400/200kV New Koyana ICT-1,3 5. 400 kV New Koyana-Dhabol-2 6. 400 kV New Koyana Bus Coupler. 7. 400 kV New Koyana-Koyana(4)-2
109	GD-1	WR	06:25 / 27-10-2024	At 06:25 Hrs / 27-10-2024 220 kV Bhuj-Nanavalka tripped on B-E fault. It is seen from Disturbance recorders at Nanavalka end that all three phases tripped for a fault in single phase which is a maloperation. During patrolling no abnormalities were found. Generation loss of 28 MW occurred at Nanavalka (Alfanar) Wind power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Nanavalka
110	GD-1	WR	19:25 / 03-11-2024	At 19:25 Hrs / 03-11-2024, 220 kV Kalwa-Knowledge Park tripped from Kalwa end only on Z-2 protection operation on Y-E fault, due to Y phase CT flashover and snapping of Y phase jumper at Knowledge Park during hand tripping of 220 kV Nasik-Knowledge Park. Line didn't tripped from Knowledge Park end which is undesirable. Load loss of 44 MW occurred at 220 kV Knowledge Park (Maharashtra) substation due to the event.	Tripping of following Elements: 1. 220 kV Kalwa-Knowledge Park
111	GI-2	WR	02:50 / 05-11-2024	At 02:46 Hrs / 05-11-2024, 400 kV Ukai-Vav tripped on over voltage protection operation at Ukai end. After two minutes at 02:48 hrs, 400 kV Ukai-Kosamba-2 tripped on overvoltage protection operation at Ukai end. Further, after two minutes at 02:50 hrs, 400/220 kV Ukai-ICT-1 (315 MVA) tripped on over flux operation. Prior to the incident 400 kV Ukai-Kosamba-3 was manually opened due to high voltage and all units at Ukai were under Reserved Shut Down (RSD). No Load loss or generation loss occurred due to the event and 220 kV Ukai network was unaffected.	Tripping of following Elements: 1. 400 kV Ukai-Vav 2. 400 kV Ukai-Kosamba-2 3. 400/220 kV Ukai-ICT-1 (315 MVA)
112	GI-2	WR	02:51 / 06-11-2024	At 02:51 Hrs / 06-11-2024, 400 kV Ukai-Vav tripped on over voltage protection operation at Ukai end. Simultaneously, 400/220 kV Ukai-ICT-1 (315 MVA) tripped on over flux operation. Prior to the incident 400 kV Ukai-Kosamba-2&3 were manually opened due to high voltage and all units at Ukai were under Reserved Shut Down (RSD). No Load loss or generation loss occurred due to the event and 220 kV Ukai network was unaffected.	Tripping of following Elements: 1. 400 kV Ukai-Vav 2. 400/220 kV Ukai-ICT-1 (315 MVA)
113	GD-1	WR	11:19 / 10-11-2024	At 11:19 Hrs / 10-11-2024, 220 kV Bhandup-Mulund tripped on B-E fault on Z-1 protection at both end due to fault in underground cable portion near Bhandup end. Auto recloser was disabled in 220 kV Bhandup-Mulund (being an transmission line with a mix of over head and underground cable portion). Simultaneously 220 kV Bhandup-Borivali tripped from Borivali end only on Z-1 operation due to overreaching of relay at Borivali end (Fault in Z-2 seen as Z-1 fault). With this 220 kV Bhandup became dead. Prior to the incident 220 kV Borivali-Kalwa and 220 kV Borivali-CtrIS Datasenter circuit were under shutdown. Load loss of 68 MW occurred at Bhandup due to the event.	Tripping of following Elements: 1. 220 kV Bhandup-Mulund 2. 220 kV Bhandup-Borivali
114	GD-1	WR	20:45 / 25-11-2024	At 20:45 Hrs / 25-11-2024, all elements at 220 kV Apta (Details in elements tripped column) tripped on Busbar protection operation due to Y phase CT burst of 220 kV Apta-Bus Sectionalizer (Single Bus with Bus sectionalizer) . Load loss of 200 MW occurred at Apta substation during the event.	Tripping of following Elements: 1. 220 kV Uran-Apta-1,2,3&4 2. 220 kV Apta-ACCIL 3. 220 kV Apta-Bombay Dyeing 4. 220 kV Apta-Navi Mumbai-1&2 5. 220 kV Apta-Tambati 6. 220 kV Apta-HOC Apta 7. 220 kV Apta-ICT-1,2,3&4 (200 MVA)
115	GI-1	WR	16:20 / 27-11-2024	At 16:20 Hrs / 27-11-2024, all elements connected to 220 kV Kansari-Bus-1 (Details in elements tripped column) tripped on bus bar protection operation of 220 kV Kansari-Bus-1 (Double main and transfer bus scheme) due to conductive wire coming in induction zone of Busbar Jumper. No Load loss or generation loss occurred due to the event and 220 kV Kansari-Bus-2 network was unaffected.	Tripping of following Elements: 1. 220 kV Kansari-Palanpur-1 2. 220 kV Kansari-Thaver-1 3. 220 kV Kansari-Deodar-1 4. 220 kV Kansari-Aghala 5. 400/220 kV Kansari-ICT-2&3 (315 MVA) 6. 220/66 kV Kansari-ICT-1 (100 MVA) 7. 220/66 kV Kansari-ICT-4 (160 MVA) 8. 220 kV Kansari Bus Coupler
116	GI-1	WR	17:17 / 28-11-2024	At 17:17 Hrs / 28-11-2024, all elements connected to 220 kV Omkareshwar-Bus-2 (Details in elements tripped column) tripped on LBB operation during synchronizing of Omkareshwar-Unit-2 (65 MW) (Double main bus scheme). LBB operation was undesirable, Omkareshwar-Unit-2 (65 MW) should have been tripped on Pole Discrepancy operation due to non-closing of R phase circuit breaker. Generation loss of 260 MW occurred at Omkareshwar Hydro Plant due to tripping of Omkareshwar-Unit-3,4,6&8 (65 MW).	Tripping of following Elements: 1. 220 kV Omkareshwar-Bus-2 2. 220 kV Omkareshwar-Barwaha 3. 220 kV Omkareshwar-Julwaniya 4. 220 kV Omkareshwar-Bus Coupler 5. Omkareshwar-Unit-3,4,6&8 (65 MW)
117	GI-1	WR	08:41 / 29-11-2024	At 08:41 Hrs / 29-11-2024, all elements connected to 220 kV Omkareshwar-Bus-2 (Details in elements tripped column) tripped on LBB operation during de-synchronizing of Omkareshwar-Unit-2 (65 MW) (Double main bus scheme). Earlier, at 17:17 Hrs / 28-11-2024, all elements connected to 220 kV Omkareshwar-Bus-2 tripped on LBB operation during synchronizing of Omkareshwar-Unit-2 (65 MW). SLDC MP was advised to take corrective measures to avoid recurrence of such incidences. Generation loss of 195 MW occurred at Omkareshwar Hydro Plant due to tripping of Omkareshwar-Unit-4,6&8 (65 MW).	Tripping of following Elements: 1. 220 kV Omkareshwar-Bus-2 2. 220 kV Omkareshwar-Nirnani 3. 220 kV Omkareshwar-Julwaniya 4. 220 kV Omkareshwar-Khandwa 5. 220 kV Omkareshwar-Bus Coupler 6. Omkareshwar-Unit-4,6&8 (65 MW)
118	GI-2	WR	17:42 / 01-12-2024	At 17:42 hrs / 01-12-2024, 400 kV RKM-Bus Reactor-1 (50 MVAR) tripped on Over current earth fault protection operation due to failure of R-phase Lightning arrester top stack. Non operation of differential protection operation of Bus reactor is undesirable. After 6 cycles of fault occurrence, RKM Unit-1,2&3 (360 MW) tripped simultaneously on over current protection operation, which was undesirable since fault was outside the zone of protection. Generation loss of 761 MW at RKM thermal power plant due to the event.	Tripping of following Elements: 1. 400 kV RKM-Bus Reactor-1 (50 MVAR) 2. RKM Unit-1,2&3 (360 MW) 3. RKM GT-4 (Idle Charged)
119	GI-1	WR	12:31 / 03-12-2024	At 12:31 hrs / 03-12-2024, 220 kV Saki-Bus-2 and all connected elements (as mentioned in elements tripped column) tripped on bus bar protection operation due to fault in Y phase 220 kV Earth cum Disconnector Switch (EDS) Bus-2 side module of Bus coupler bay because of internal flashover. Load loss of 48 MW occurred at Saki and downstream network due to the event.	Tripping of following Elements: 1. 220 kV Saki-Bus-2 2. 220 kV Saki-Aarrey-2 3. 220 kV Saki-TPC-2 3. 220/33 kV Saki-ICT-2 (125 MVA)
120	GD-1	WR	15:57 / 09-12-2024	At 15:57 hrs / 09-12-2024, 400 kV KSK Mahanadi-Champa-4 tripped on phase to phase fault from KSK end only on Z-1, during inspection dead bird was found near the 400 kV KSK Mahanadi-Champa-4 bay at KSK switchyard. Prior to the incident 400 kV KSK Mahanadi-Champa-3 was under planned shutdown from 10:45 hrs / 09-12-2024 for AMP Work. Due to this KSK Mahanadi-Unit-2&3 (600 MW) tripped due to loss of evacuation path. Generation loss of 927 MW occurred at KSK Mahanadi Thermal Power Plant.	Tripping of following Elements: 1. 400 kV KSK Mahanadi-Champa-4 2. KSK Mahanadi-Unit-2&3 (600 MW)
121	GD-1	WR	02:58 / 10-12-2024	At 02:58 hrs / 10-12-2024, 220 kV Barsaita Desh- Rewa 1 tripped only at Barsaita Desh end on Differential protection operation and Barsaita Desh- Rewa 2 tripped at Rewa end only (No indication as reported by Powergrid WR-2) During charging of 220/33 kV Barsaita Desh-ICT-2 which was under planned shutdown for AMP work since 19:37 hrs / 09-12-2024. With these trippings 220 kV Barsaitadesh Solar Plant became dead. No generation loss occurred due to the event.	Tripping of following Elements: 1. 220/33 kV Barsaita Desh ICT-1&3 2. 220 kV Barsaita Desh-Bus-1&2 3. 220 kV Barsaita Desh-Rewa-1&2
122	GI-2	WR	15:04 / 11-12-2024	At 15:04 hrs / 11-12-2024, 400 kV Vapi II-Vapi(PG)-1&2 tripped on SOTF indication during CSD commissioning in main bay of 400 kV Vapi II-Bus Reactor at Vapi II, current in B phase of these lines reached upto 5.43 kA. After 1.1 seconds 400 kV Vapi II-Kakrapar 3&4-2 tripped on Zone-1 B-E fault. No generation or load loss occurred during the event	Tripping of following Elements: 1. 400 kV Vapi II-Vapi(PG)-1&2 2. 400 kV Vapi II-Bus Reactor

123	GD-1	WR	07:12 / 17-12-2024	At 07:12 hrs / 17-12-2024, 220kV Bhuj-Vadva tripped on B-E fault without auto recloser attempt at both ends. At the time of patrolling no abnormalities were found. Generation loss of 95 MW occurred at Vadva (GIWEL-II) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Vadva- Bhuj-1
124	GI-2	WR	17:52 / 26-12-2024	At 17:52 hrs / 26-12-2024, JPL Stage 1-Unit-1,2&3 (250 MW) tripped on over current to earth fault during charging of 400 kV JPL Stage 1-JPL Stage 2-I/C line, the line tripped on pole discrepancy operation. The tripping of units was undesirable. In earlier incidences of tripping of 400 kV JPL Stage 1-JPL Stage 2-I/C line at 06:12 hrs / 23-12-2024 and 05:22 hrs / 26-12-2024 on differential, 400 kV JPL Stage 2-Tamnar-3 tripped instantaneously for a fault in Z-3 at Tamnar end (Main 2 relay tripped for a fault seen in Z-3 by Main-1 relay). Generation loss of 719 MW occurred at JPL Stage 1 due to tripping of JPL Stage 1-Unit-1,2&3 (250 MW).	Tripping of following Elements: 1. JPL Stage 1-Unit-1,2&3 (250 MW)
125	GD-1	WR	12:22 / 28-12-2024	At 12:22 hrs / 28-12-2024, 220 kV Bhawsingpura-Khandwa-1 tripped on persistent R-E fault, auto recloser attempted from Khandwa end only. Due to this 220 kV Bhawsingpura-Kanwani-1 radial line also tripped due to disconnection with grid. Generation loss of 28 MW occurred at Bhawsingpura and Kanwani (Masava) Solar Plant due to the above event.	Tripping of following Elements: 1. 220 kV Bhawsingpura-Khandwa-1 2. 220 kV Bhawsingpura-Kanwani-1
126	GI-2	WR	19:52 / 28-12-2024	At 19:52 hrs / 28-12-2024, 765 kV Champa-Bus-3 tripped on busbar protection operation resulting in tripping of all connected Main Bays of element and 765 kV Champa-Kotra-1 due to flashover in R phase CT of 765 kV Champa Kotra-1. Earlier at 19:50 hrs / 28-12-2024, 765 kV Champa-ICT-3 tripped on Differential protection operation due to failure of its B phase CT. At 22:13 hrs / 28-12-2024, 765 kV Champa-Dharamjaigarh-1 tripped due to failure of its B phase CT. As informed by Powergrid, weather conditions at Champa deteriorated with very heavy wind, lightning and stormy rain. No generation or load loss occurred due to the event.	Tripping of following Elements: 1. 765 kV Champa-Bus-3 2. 765 kV Champa-Kotra-1 3. 765 kV Champa-Dharamjaigarh-1 4. 765 kV Champa-ICT-3
127	GD-1	WR	23:46 / 09-01-2025	At 23:46 hrs / 09-01-2025, 220 kV Bhuj-Gadhisa tripped on R-B phase to phase fault. During patrolling, it was found that the top cage section of tower 15/1 was damaged due to conductor theft. Due to loss of single evacuation transmission line 220 kV Gadhisa substation became dead. Generation loss of 95 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1.220 kV Bhuj-Gadhisa-1
128	GD-1	WR	11:13 / 11-01-2025	At 11:13 hrs / 11-01-2025, 220 kV Bhuj-Kotda Madh-1 tripped from Kotda Madh end only due to receipt of DT signal from Bhuj end. The tripping was due to maloperation as there were no relay indications reported at Bhuj end. PMU stopped reporting after the tripping. Due to loss of single evacuation transmission line 220 kV Kotda Madh substation became dead. Generation loss of 35 MW occurred at Kotda Madh (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1.220 kV Bhuj-Kotda Madh-1
129	GD-1	WR	15:08 / 12-01-2025	At 15:08 hrs / 12-01-2025, 220 kV Bhuj-Kotda Madh-1 tripped from Kotda Madh end only due to receipt of DT signal from Bhuj end. The tripping was due to maloperation as there were no relay indications reported at Bhuj end. PMU stopped reporting after the tripping. Due to loss of single evacuation transmission line 220 kV Kotda Madh substation became dead.	Tripping of following Elements: 1.220 kV Bhuj-Kotda Madh-1
130	GD-1	WR	11:57 / 14-01-2025	Similar tripping due to receipt of false DT signal occurred at 15:08 hrs / 12-01-2025. Generation loss of 76 MW occurred at Kotda Madh (Alfanar) Wind Power plant due to loss of evacuation path.	
131	GD-1	WR	11:57 / 14-01-2025	At 11:57 hrs / 14-01-2025, 220 kV Nakhatrana-Dedhiya-1 line tripped on R-Y fault on Z-1 from Nakhatrana and Dedhiya end. Simultaneously, 220 kV Nakhatrana-Bhuj II-1 tripped from nakhatrana end which was undesirable. Due to loss of single evacuation transmission line 220 kV Nakhatrana and Dedhiya (Adani) substations became dead. Generation loss of 18 MW occurred at Nakhatrana and Dedhiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1.220 kV Nakhatrana-Dedhiya-1 2.220kV Nakhatrana-Bhuj II-1
132	GD-1	WR	02:40 / 18-01-2025	At 02:40 hrs / 18.01.2025, 220 kV side R-phase CT of 220/132 kV Raigarh-ICT-2 at 220kV-Raigarh (CG) failed. After 600 msec R phase of jumper of auxiliary bus section side of 220/132 kV Raigarh-ICT-2 got disconnected resulting in tripping of all connected elements at 220 kV Raigarh(CG). Load loss of about 180 MW occurred at Raigarh(CG) and down stream network due to the event.	Tripping of following Elements: 1. 220 kV Raigarh(CG)-Raigarh(PG)-1,2&3 2. 220 kV Raigarh(CG)-Bus-1&2 3. 220 kV Raigarh(CG)-Saraipali-1 4. 220 kV Raigarh-Korba(E)-1 5. 220/132 kV Raigarh-ICT-1,2&3 (160 MVA)
133	GD-1	WR	04:22 / 19-01-2025	At 04:22 hrs / 19-01-2024, 220 kV Morbi-Hadala-1 tripped on R-E fault due to R-phase CVT blast at Morbi. Simultaneously, bus bar protection operated due to flames of blasted CVT coming in induction zone of 220 kV Morbi-Bus-1 (Single main and transfer bus) which lead to tripping of all connected elements. Load loss of 300 MW occurred at Morbi and related downstream network due to the event.	Tripping of following Elements: 1.220 kV Morbi -Hadala-1 2.220 kV Morbi-Bus-1 3.220 kV Morbi-Vondh-1 4.220/66 kV Morbi-ICT-1,2&3 5.220 kV Morbi-Shivlakh-1&2 6.220 kV Morbi-Lalpar-1 7.220 kV Morbi-Bhimasar-1
134	GD-1	WR	13:12 / 24-01-2025	At 13:12 hrs / 24-01-2025, 220 kV Ponda-Bus-1 tripped on Bus bar protection mal-operation during closing of 220 kV Amona Buscoupler. Prior to the incident, 220 kV Ponda-Bus-2 (which was feeding 220 kV Tillari and 220 kV Mahaxmi through 220 kV Amona) became dead due to tripping of 220 kV Tillari-Amona-1 and 220 kV Mahaxmi-Amona-1 at 12:55 / 24-01-2025. Further during closing of bus coupler at 220 kV Amona (for restoration works), 220 kV Ponda-Bus-1 Bus bar protection mal-operation. Load loss of 200 MW occurred at Ponda due to the event.	Tripping of following Elements: 1. 220 kV Ponda-Bus-1 2. 220 kV Mapusa-Ponda-1 3. 220/33 kV Ponda ICT-1 4. 220/110 kV Ponda ICT-2 (100 MVA)
135	GD-1	WR	10:09 / 27-01-2025	At 10:09 hrs / 27-01-2025, 400/33 kV Khirsara-ICT-1 (300 MVA) tripped on Over Excitation. 400 kV Khirsara-Varsana-1 tripped on AC directional over current relay operation which was undesirable. The line was 400 kV Khirsara-Varsana-1 without attending the issue at 12:57 hrs / 27-01-2025 which was resolved by taking emergency shutdown of 400 kV Khirsara-Varsana-1 at 20:25 hrs / 27-01-2025 for checking wiring of CTs and IR values measurement. Generation loss of 200 MW occurred at Khirsara (Gava Solar-Adani) Solar power plant due to loss of evacuation path.	Tripping of following Elements: 1. 400 kV Khirsara-Varsana-1 2. 400/33 kV Khirsara-ICT-1 (300 MVA)
136	GD-1	WR	03:01 / 28-01-2025	At 03:01 hrs / 28-01-2025, 220 kV Indore(PG)-Pritamagar-1 tripped on R-E fault from Pritam Nagar end only. Autorecloser successful at Indore (PG) end. During patrolling no abnormalities were found. Due to loss of single evacuation transmission line 220 kV Pritam Nagar substation became dead. Generation loss of 56 MW occurred at Pritam Nagar (Adani) Wind power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Indore(PG)-Pritamagar-1
137	GD-1	WR	13:12 / 28-01-2025	At 13:12 hrs / 28-01-2025, 220 kV Tivim-Bus-1 (Main and Transfer bus scheme) tripped on Bus bar protection operation resulting in tripping 220 kV Mapusa-Tivim-1&2. An object coming in induction zone of bus due to high wind resulted in busbar protection operation and substation became dead. Due to loss of both evacuation transmission lines 220 kV Tivim (Goa) substation became dead. Load loss of 186 MW occurred at Tivim due to the event.	Tripping of following Elements: 1. 220 kV Mapusa-Tivim-1&2 2. 220/110 kV Tivim-ICT-1,2&3
138	GD-1	WR	13:19 / 30-01-2025	At 13:19 hrs / 30-01-2025, 220 kV Bhuj-Gadhisa tripped on Y-B phase to phase fault. During patrolling, tree was found in induction zone. The line was test charged at 14:58 hrs / 30-01-2025 and didn't hold. Due to loss of single evacuation transmission line 220 kV Gadhisa substation became dead. Generation loss of 1 MW occurred at Gadhisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa-1
139	GD-1	WR	17:20 / 30-01-2025	At 17:20 hrs / 30-01-2025, multiple trippings occurred at 400/220 kV Kansari substation during charging of 400 kV Kansari-Bus Reactor-2 (125 MVA) which was out on voltage regulation. Y-phase pole 400 kV Kansari-Bus Reactor-2 circuit breaker didn't close properly while charging causing increased current in R and B phases, which resulted in flashover. Busbar protection didn't operate and elements connected to 400/220 kV Kansari tripped due to persisting fault. Load loss of 888 MW occurred at Kansari and downstream network due to the event. Detailed inspection is in progress.	Tripping of following Elements: 1. 220 kV Kansari-Bus-1&2 2. 400/220 kV Kansari-ICT-1,2,3&4 (315 MVA) 3. 400 kV Kansari-Veluda-1 4. 400 kV Charanka-Kansari-1&2 5. 400 kV Kansari-Bus Coupler 6. 400 kV Soja-Kansari-1,2&3 7. 400 kV Banakantha-Kansari-1 8. 400 kV Kankoli-Kansari-1 9. 220/66 kV Kansari-ICT-1,2,3&4 (100 MVA) 10. 400 kV Kansari-Bus Reactor-2 (125 MVA) 11. 220 kV Kansari-Deodar-1&2 12. 220 kV Kansari-Tharad-1 13. 220 kV Kansari-Aghthala-1 14. 220 kV Kansari-Thaver-1&2 15. 220 kV Kansari-Jangral-1&2 16. 220 kV Kansari-Palanpur-1&2 17. 220 kV Deodhar-Radhanpur-1 18. 220 kV Deodhar-Mera-1&2 19. 220 kV Tharad-Mera-1&2 20. 220 kV Tharad-Thavar-1&2 21. 220 kV Tharad-Amarpur-1&2
140	GD-1	WR	13:12 / 07-02-2025	At 13:12 Hrs / 07-02-2025, 400 kV Nagothane-Dabhol-2 tripped on R-Y phase fault due to agriculture fire between tower location 150-160. Due to non operation of primary and backup protection, the fault was cleared after 1147 msec on Backup Earthfault Protection of ICTs. After 10 minutes, 220 kV Nagothane became dead at 13:22 Hrs / 07-02-2025 due to tripping of lines from remote end and 400/220 kV Nagothane substation became dead. Load loss of 541 MW occurred at Nagothane area (Maharashtra) due to the event.	Tripping of following Elements: 1 400kV Nagothane-Padghe-1 2 400kV Nagothane-Padghe-2 3 400kV RGPPL-Nagothane-1 4 400kV RGPPL-Nagothane-2 5 400/220 kV Nagothane ICT-1 6 400/220 kV Nagothane ICT-2 7 400/220 kV Nagothane ICT-3 8 220 kV Nagothane- MSL 9 220 kV Nagothane- Vadkhal 1 10 220 kV Nagothane- Vadkhal 2 11 220 kV Nagothane- Apta 12 220 kV Nagothane- SPCL 13 220 kV Nagothane- IPCL 14 220 kV Nagothane- POSCO
140	GD-1	WR	17:10 / 10-02-2025	At 17:10 hrs 220kV Umariya (Agar Unit-5) Pachora ckt tripped from Umariya (Agar) end only. No indications observed. No generation loss recorded as the tripping occurred in non solar hours.	Tripping of following Elements: 1. 220kV Umariya (Agar)-Pachora ckt

	GD-1	WR	19:09 / 10-02-2025	Jamkambaliya had requested emergency outage of 220KV-JAMKAMBALIYA-MANJA for attending SF6 gas pressure low in 203 main breaker at Jamkambaliya end. Shutdown was availed at 15:20 hrs. After completion of work, line normalised at 18:46 hrs. However at 19:09 hrs. at 220kV Manja end, while charging 220/33kV ICT, the line tripped due to earth fault. Manja has informed that its 202 main breaker of 220/33kV ICT is under forced outage since 06th March 2024. Since then, 220/33kV Manja ICT was kept charged through TBC bay 201. DT has been received at Jamkambaliya end. There is no generation loss due to this tripping.	Tripping of following Elements: 1. 220KV-Jamkambaliya-Manja 2. 220/33kV Manja ICT
141	GD-1	WR	10:25 / 11-02-2025	At 10:25 hrs 220kV Umariya (Agar Unit-5) Pachora ckt tripped from Umariya (Agar) end only. No indications observed. 330-340MW generation loss recorded due to the loss of evacuation path.	Tripping of following Elements: 1. 220kV Umariya (Agar)-Pachora ckt
142	GD-1	WR	16:28 / 11-02-2025	At 16:28 hrs 220kV Umariya (Agar Unit-5) Pachora ckt tripped from Umariya (Agar) end only. No indications observed. 162 MW generation loss recorded due to the loss of evacuation path.	Tripping of following Elements: 1. 220kV Umariya (Agar)-Pachora ckt
143	GD-1	WR	16:28 / 11-02-2025	At 16:28 hrs 220kV Ladwan (Agar Unit-5) Pachora ckt tripped from Ladwan (Agar) end only. Planned outage of 220 KV main bay (204) of 220 KV Ladwan Pachora at Pachora end was availed at 10:27 hrs and normalized at 16:27 hrs. At 16:28 hrs, DT was sent from Pachora SS to Ladwan which is suspected to be extended while changing Bay from Transfer mode to Local Mode. 111 MW generation loss recorded due to the loss of evacuation path.	Tripping of following Elements: 1. 220 kV Agar4(Ladwan)-Pachora ckt
144	GD-1	WR	10:11 / 12-02-2025	At 10:11 hrs 220kV Umariya (Agar Unit-5) Pachora ckt tripped from Umariya (Agar) end only. No indications observed. 280 MW generation loss recorded due to the loss of evacuation path	Tripping of following Elements: 1. 220kV Umariya (Agar)-Pachora ckt
145	GD-1	WR	10:11 / 12-02-2025	At 10:11 hrs 220kV Ladwan ICTs 1&2 tripped while availing the planned outage of 220kV Pachora Bus Coupler at 220kV Pachora.. 138 MW generation loss recorded due to the loss of connected 2 ICTs.	Tripping of following Elements: 1. 220 kV Agar4(Ladwan)-Pachora ckt
146	GD-1	WR	10:11 / 12-02-2025	At 10:11 hrs 220kV Ladwan ICTs 1&2 tripped while availing the planned outage of 220kV Pachora Bus Coupler at 220kV Pachora.. 138 MW generation loss recorded due to the loss of connected 2 ICTs.	Tripping of following Elements: 1. 220 kV Agar4(Ladwan)-Pachora ckt
147	GI-2	WR	20:42 / 13-02-2025	At 20:42 hrs/13.02.2025, during relay testing of 765kV Lakadiya Bus-2 (which was already in planned outage), 765kV Lakadiya Bus-1 got tripped. This resulted in tripping of 765kV Lakadiya – Banaskantha-1, 765/400kV Lakadiya ICTs -1&2 and 765kV Lakadiya Bus reactor. 765kV Lakadiya Vadodara Double Circuit lines remained in service, with power flow redirected through the 765kV Bhuj-II Double Circuit via Tie bays.	Tripping of following Elements: 1. 765kV Lakadiya Bus-1 2. 765kV Lakadiya – Banaskantha-1 3. 765/400kV Lakadiya ICTs 1 4. 765/400kV Lakadiya ICTs 2 5. 765kV Lakadiya Bus reactor
148	GD-1	WR	15:45 / 15-02-2025	At 15:45 Hrs/ 15-02-2025, 220 kV Pritamnagar- Indore tripped on R-E fault & resulted in blackout of 220 kV Pritamnagar substation due to radial feeder . Generation loss of 114 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Pritamnagar- Indore
149	GD-1	WR	15:45 / 15-02-2025	At 21:13 Hrs/15-02-2025, 220kV Bhuj-Gadhisa S/C tripped due to B-Y fault, which resulted in loss of evacuation path. After patrolling team found EHV Line Tower No: 15/3 damaged from top section due to conductor theft case at fault location. About 97 MW generation loss occurred at 220 kV Gadhisa WPP.	Tripping of following Elements: 1. 220kV Bhuj-Gadhisa
150	GD-1	WR	11:42 / 22-02-2025	At 11:42Hrs/22-02-2025, 220kV Kolhapur Bus-1 tripped due to LBB operated at 220 kV Bidri CB at 400 kV Talandge, which resulted in tripping of all elements . About 346MW load loss occurred at 400KV/220 KV Kolhapur SS.	Tripping of following Elements: 1. 220kV Kolhapur Bus-1 2. 400KV/220KV ICT-1 3. 400KV/220KV ICT-2 4. 220 kV Kolhapur-Ichakaranji-1 5. 220 kV Kolhapur-Hamidwada 6. 501 MVA ICT 1 7. 220 kV Kolhapur-Mudshingi 1 8. 220 KV Bus Coupler 9. 220 kV Kolhapur-Bidri 10. 220 kV Kolhapur-Five Star 1
151	GD-1	WR	15:38 / 22-02-2025	At 15:38 Hrs/22-02-2025, 400kV Khavda PS I-Khavda PSS9 S/C tripped on differential relay protection, which resulted in loss of evacuation path. It was confirmed that wrong operation made by testing & commissioning project team in 428 tie bay of 429 which lead to tripping. About 44 MW generation loss occurred at 400 kV Khavda PSS9 WPP.	Tripping of following Elements: 1. 400kV Khavda PS I-Khavda PSS9 S/C
152	GD-1	WR	06:47 / 06-03-2025	At 06:47 hrs / 03-03-2025, 220 kV Bhuj-Chugger-1 tripped on Y-E fault from Chugger end only and autorecloser successful at Bhuj End. Due to loss of single evacuation transmission line 220 kV Chugger (SITAC) substation became dead. Generation loss of 70 MW occurred at Chugger (SITAC) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Chugger-1
153	GD-2	WR	14:50 / 12-03-2025	On 12-03-2025, multiple events occurred in Central and South Gujarat. Complete loss of supply occurred at Eight(8) 400kV and forty two(42) 220kV substations in Central and South Gujarat system, leading to load loss of 3741 MW and generation loss of 2044 MW due to the multiple events Event-1 (From 14:50 hrs to 15:00 hrs) At 14:50 hrs / 12-03-2025, 400 kV Asoj-Kosamba-1 tripped on persistent Y-E fault, caused by a forest fire. This led to increased loading on parallel corridors from Central to South Gujarat. Simultaneously, lines connected to 400 kV Gandhar and 400 kV Pirana(T) tripped unintentionally, 220 kV tie lines between Central and South Gujarat tripped on Over current protection. The cascade tripping of 400 kV & 220 kV transmission lines worsened the low voltage scenario in South Gujarat leading to tripping of major generation station in South Gujarat. Event-2 (From 15:01 hrs to 15:35 hrs) At 15:01 hrs / 12-03-2025, 400 kV Aurangabad(PG)-Boisar(PG)-1 line tripped on R-B phase-to-phase fault, due to snapping of R phase conductor. Subsequently, 220 kV TAPS1&2)-Vapi(GI)-1 and 220 kV Nashik-Navsari-1&2 tripped on over current protection operation. At 15:21Hrs, 400 kV Vav(GIS)-Navsari(PG)-1 line was manually tripped due to a fire in the wave trap at the Vav(GIS) end. As a consequence of these multiple trippings, the power supply to South Gujarat was solely dependent on the 400 kV Navsari(PG)-Jhanor-1 line. Event-3 (From 15:35 hrs to 15:40 hrs) At 15:35 hrs, an attempt was made to restore 400 kV Dehgam-Jhanor-1 from Jhanor end (to strengthen supply to South Gujarat). However, this line tripped again from Jhanor end shortly after being energized. The situation was further worsened by tripping of 400kV Navsari(PG)-Jhanor--1 (sole supply line) from Navsari(PG) end only (suspected unintended operation). The tripping of the 400 kV Navsari(PG)-Jhanor-1 line resulted in a complete power supply failure at several critical substations in South Gujarat, including Gandhar, Sugen, Vav(GIS), Ukai, and Kosamba.	Complete loss of supply occurred at Eight(8) 400kV and forty two(42) 220kV substations in Central and South Gujarat system Tripping of following Generating Units: 1. Ukai(H)-U#2 (75 MW) 2. KAPS-U#1 (220 MWe) 3. SLPP-U#3 (125 MW) 4. KAPS-U#3 (700 MWe) 5. KAPS-U#4 (700 MWe) 6. SLPP-U#1 (125 MW) 7. SLPP-U#2 (125 MW) 8. Ukai(T)-U#4 (200 MW) 9. Ukai(T)-U#3 (200 MW) 10. Ukai(T)-U#6 (500 MW) 11. TAPS-U#3 (540 MWe)
154	GD-1	WR	18:08 / 14-03-2025	Multiple Tripping Incidents in Korba(W) At 16:01 hrs / 14-03-2025, Korba(W)-Unit-3 (210 MW) tripped on generator differential protection operation. Simultaneously, 400/220 kV Korba(W)-ICT-1 tripped due to fire as reported by Chhattisgarh SLDC. Further, at 16:40 hrs / 14-03-2025, Korba(W)-Unit-4 (210 MW) tripped on generator differential protection operation and 400 kV Korba(W) Extension-Marwa-1 tripped due to fire as reported by Chhattisgarh SLDC. At, 18:06 hrs / 14-03-2025 Korba(W)-Unit-5 (210 MW) tripped due to fire as reported by Chhattisgarh SLDC and at 18:10 hrs 400 kV Korba(W) Extension-Bhilai-1 and 400 kV Korba(W)-Raita-1 tripped due to Bus bar protection operation. Due to these tripping 400/220 kV Korba(W) substation became dead resulting in Generation loss of 920 MW and load loss of 650 MW in downstream network.	Tripping of following Elements: 1. Korba(W)-Unit-3,4&5 (210 MW) 2. 400/220 kV Korba(W)-ICT-1 3. 400 kV Korba(W) Extension-Marwa-1 4. 400 kV Korba(W) Extension-Bhilai-1 5. 400 kV Korba(W)-Raita-1
155	GI-2	WR	08:53 / 15-03-2025	At 08:53 hrs / 15-03-2025, while availing planned shutdown of 400 kV Khavda(KPS1)-Bus-1 for carrying out the HV test and bus bar stability, 400 kV Khavda(KPS1)-Bus-2, 400 kV Khavda(KPS1)-Khavda(KPSS1)-1, 400 kV Khavda(KPS1)-Khavda(KPSS2)-1, 400 kV Khavda(KPS1)-Khavda(KPSS3)-1 and 765/400kV Khavda(KPS1)-ICT-1, 2,&3 tripped. Ideally, in case of N-1 contingency of 400 kV Khavda(KPS1)-Bus-2, the three lines should have been in service through the three ICTs but the ICTs tripped on Backup Impedance relay operation. Due to loss of single evacuation transmission line 400 kV Khavda(KPSS1), 400 kV Khavda(KPSS2) and 400 kV Khavda(KPSS3) substations became dead, leading to around 1700 MW Generation loss.	Tripping of following Elements: 1. 400 kV Khavda(KPS1)-Bus-2, 2. 400 kV Khavda(KPS1)-Khavda(KPSS1)-1, 3. 400 kV Khavda(KPS1)-Khavda(KPSS2)-1, 4. 400 kV Khavda(KPS1)-Khavda(KPSS3)-1 5. 765/400kV Khavda(KPS1)-ICT-1, 2,&3
156	GD-1	WR	10:54 / 31-03-2025	At 10:54 hrs / 31-03-2025, 400 kV SKS-Kotra-1 tripped from SKS end only on B-E fault. Subsequently, at 10:56 hrs 400 kV SKS Kotra-2 tripped on R-E fault from both ends. During inspection, internal flashover was observed in R phase wavetrap of 400 kV SKS-Kotra-2 at Kotra end. Due to loss of double circuit evacuation transmission lines 400 kV SKS thermal substation became dead. Generation loss of 600 MW occurred at 400 kV SKS thermal substation due to the event.	Tripping of following Elements: 1. 400 kV SKS-Kotra-1 2. SKS-Unit-1&2 (300 MW)