



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

No. उ.क्षे.वि.स./प्रचालन/102/01/2022/1295-1333

दिनांक: 04.02.2022

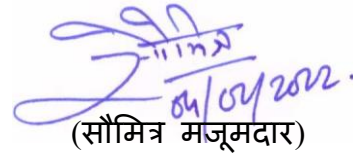
विषय: उत्तर क्षेत्रीय विद्युत समिति की एल.जी.बी.आर. उप-समिति की 25<sup>वीं</sup> बैठक का कार्यवृत्त।

**Subject: Minutes of 25<sup>th</sup> LGBR Sub-Committee meeting of NRPC.**

उत्तर क्षेत्रीय विद्युत समिति की एल.जी.बी.आर. उप-समिति की 25<sup>वीं</sup> बैठक दिनांक 04.02.2022 को आयोजित की गई। उक्त बैठक का कार्यवृत्त उत्तर क्षेत्रीय विद्युत समिति की वेबसाइट <http://164.100.60.165> पर उपलब्ध है। यदि कार्यवृत्त पर कोई टिप्पणी हो तो कार्यवृत्त के जारी करने के एक सप्ताह के अंदर उ.क्षे.वि.स. सचिवालय को सूचित करें।

25<sup>th</sup> LGBR Sub-Committee meeting of NRPC was held on 04.02.2022. The Minutes of this meeting has been uploaded on the NRPC website <http://164.100.60.165>. Any comments on the minutes may kindly be submitted to NRPC Sectt within a week of issuance of the minutes.

संलग्नक: यथोपरि

  
(सौमित्र मजूमदार)

अधीक्षण अभियंता (प्रचालन)

सेवा में,

उ.क्षे.वि.स. की एल.जी.बी.आर. उप-समिति के सदस्य

## Minutes of the 25<sup>th</sup> LGBR Sub-Committee meeting

1. 25<sup>th</sup> LGBR Sub-Committee meeting was held on 04.02.2022 through Video Conference.
2. Member Secretary, NRPC extended a warm welcome to all participants in the meeting. He informed that this meeting is being conducted to review the planned maintenance schedule of generating units for April'22 and September'22.
3. SE(O), NRPC informed that 24<sup>th</sup> LGBR Sub-Committee meeting was held on 10.01.2022 and minutes of the meeting were issued on 11.01.2022. The availability figures of Delhi, as submitted by Delhi SLDC vide mail on 03.02.2022 for both energy and peak, were discussed. It was decided that Delhi SLDC shall submit the breakup of these availability figures to NRPC Sect. for further analysis and after analysis of these figures, a meeting may be held in second week of February among representatives of NRPC, NRLDC, Delhi SLDC and Delhi DISCOMs.
4. The request of NTPC submitted vide email dt. 01.02.2022 for overhaul of below mentioned NTPC NCR stations before high demand season was also discussed in the meeting.

Unchahar#4 (St-2 U#2)-210 MW	21.02.22-01.04.22 (40 days) (UP gave its consent)
Dadri#5 (St-2 U#1)-500 MW	20.02.22-16.03.22 (25 days)
Dadri#3 (St-1 U#3)-210 MW	15.02.22-21.03.22 (35 days)
Unchahar#6 (St-4 U#1)-500 MW	09.02.22-15.02.22 (7 days) for FGD gate installation

The sub-committee agreed to the above cited outage schedule for NTPC NCR stations. Further, sub-committee was of the view that maximum efforts shall be made by NTPC to complete the planned maintenance activity of these units in the shortest possible time.

5. Rajasthan vide mail dated 10.01.2022 submitted the outage schedule for its four units which were discussed in 24<sup>th</sup> LGBR sub-committee meeting. The outage plan submitted by Rajasthan SLDC was not in accordance with the discussion held in the 24<sup>th</sup> LGBR sub-committee meeting and same was taken up for review in this meeting. Rajasthan was requested to adhere to the outage schedules as agreed in the 24<sup>th</sup> LGBR sub-committee meeting; however, the outage schedule of two of its units were revised as follows:

Plant	Unit	Capacity	Outage from	Outage to	Reason
KALISINDH TPS (KATPP)	1	600	01-Feb-23	21-Feb-23	Annual Boiler Overhaul

KALISINDH TPS (KATPP)	2	600	15-Apr-22	06-May-22	Annual Boiler Overhaul
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6. Meeting agenda was presented before the sub-committee. Copy of the presentation is enclosed as Annexure-I.

#### Planned Outages for generators during Apr-22 to Mar-23

7. It was mentioned that Ministry of Power has desired that respective RPCs shall review the planned outages of generators for **April 2022** and **September 2022** so as to ensure higher availability of thermal generating capacity in the said two months. Accordingly, planned outages falling during the period April 2022 and September 2022 and finalized in the 24<sup>th</sup> LGBR Sub-Committee have been listed out for review.
8. Based on the discussions held in the meeting, annual outage schedule for following four units were revised:

Station	Unit	Capacity (MW)	Outage from	Outage To	Remarks
NABHA POWER LTD RAJPURA	1	700	05-Mar-22	20-Mar-22	FGD Interconnection for Unit 1
BARA TPP (PRAYAGRAJ)	2	660	04-Feb-22	08-Mar-22	Annual Overhaul, Boiler Rectification
DADRI-II (NCTPP)*	6	490	07-Oct-22	10-Nov-22	Annual OH
KALISINDH TPS (KATPP)	1	600	01-Feb-23	21-Feb-23	Annual Boiler Overhaul

*\* In respect of **DADRI-II (NCTPP)**, the sub-committee was of opinion that the outage schedule as per 23<sup>rd</sup> LGBR sub-committee shall be postponed to Oct-Nov '22 and asked NTPC to submit the revised outage schedule. The revised dates as submitted by NTPC vide mail have been mentioned in the table.*

9. The request of CLP Jajjar for preponement of planned overhaul of Unit 2 of MAHATMA GANDHI TPS for two weeks was discussed in the meeting. Beneficiary state i.e., Haryana expressed concerns as it may affect the availability of Haryana as two other machines in their region is already under out during this duration. Thus, sub-committee declined to the request of CLP Jhajjar and asked them to take planned overhaul of Unit 2 of MAHATMA GANDHI TPS as per the MoM of 23<sup>rd</sup> LGBR sub-committee meeting.

#### Anticipated Availability for the period Apr-22 to Mar-23

10. SE(O), NRPC also briefed the sub-committee about the anticipated energy and peak availability and demand data for the period Apr-22 to Mar-23, which had been computed after the receipt of data from states and deliberations held

in 23<sup>rd</sup> & 24<sup>th</sup> LGBR sub-committee meeting.

11. On Delhi SLDC request for revision of peak demand figure for September 2022 from 7260 MW to 6900 MW, NRPC representative stated that peak demand figure of 7260 MW is as per the MoM of 23<sup>rd</sup> LGBR sub-committee. Sub-committee agreed for the revision of peak demand for Sept'22 to 6900 MW on request of Delhi SLDC.
12. On the request of Haryana SLDC, the sub-committee agreed for revision of energy requirement & peak demand figures for September 2022 as per the data submitted by the state.
13. Uttarakhand SLDC vide mail dated 12.01.2022 had submitted the Energy Requirement and Peak Demand figures and same was agreed by the sub-committee to be considered for preparation of LGBR 2022-23.

The meeting ended with vote of thanks.

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## 25<sup>TH</sup> LGBR MEETING


(NRPC)

### Minutes of 24<sup>th</sup> LGBR meeting

- 24<sup>th</sup> LGBR meeting was held on 10.01.2022
- Minutes of 24<sup>th</sup> LGBR meeting issued on 11.01.2022
- Delhi SLDC vide email dt. 03.02.2022 noted that peak demand of Delhi for Sep'22 may be changed from 7260MW submitted availability breakup for Apr-Sep'22 and mentioned 6900MW
- RVUN vide email dt. 10.01.2022 submitted the revised annual shutdown for CSCTPP and KaTPP units of RVUNL:
  1. CSCTPP, Unit#5 from 15.08.22 to 10.09.22 ( 25 days )
  2. CSCTPP, Unit#6 from 15.09.22 to 09.10.22 ( 25 days )
  3. KaTPP, Unit #2 from 01.04.22 to 21.04.22 ( 21 days )
  4. KaTPP, Unit#1 from 01.07.22 to 21.07.22 ( 21 days )

## Minutes of 24<sup>th</sup> LGBR meeting

- Based on discussions held in the 24<sup>th</sup> LGBR meeting, annual outage schedule for following four units were tentatively revised:

Station	Unit	Capacity (MW)	Outage from	Outage To	Duration (days)	Remarks			
KAWAI TPS	2	660	11-Sep-22	09-Oct-22	29	COH	<u>RVUN proposal</u>		
CSCTPP CHHABRA	5	660	15-Aug-22	10-Sep-22	27	Annual Boiler Overhaul	CSCTPP, Unit#5 15.08.22 to 10.09.22		
CSCTPP CHHABRA	6	660	10-Oct-22	05-Nov-22	27	Annual Boiler Overhaul	CSCTPP, Unit#6 15.09.22 to 09.10.22		
KALISINDH TPS (KATPP)	1	600	15-Apr-22	06-May-22	22	Annual Boiler Overhaul	KaTPP, Unit#1 01.07.22 to 21.07.22		
							KaTPP, Unit #2 01.04.22 to 21.04.22		
<b>Members may like to deliberate.</b>							 <p><u>As per initial schedule</u></p> <table border="1"> <tr> <td>KaTPP, Unit #2</td> <td>01.02.23 to 21.02.23</td> </tr> </table>	KaTPP, Unit #2	01.02.23 to 21.02.23
KaTPP, Unit #2	01.02.23 to 21.02.23								

## Overhaul of NTPC NCR Stations before high demand season

- NTPC vide email dt. 01.02.2022 requested for following outages:

Unchahar#4 (St-2 U#2)-210 MW	21.02.22-01.04.22 (40 days)
Dadri#5 (St-2 U#1)-500 MW	15.02.22-11.03.22 (25 days)
Dadri#3 (St-1 U#3)-210 MW	20.02.22-26.03.22 (35 days)
Unchahar#6 (St-4 U#1)-500 MW	09.02.22-15.02.22 (7 days) – FGD gate installation

As per initial schedule

Unchahar#4 (St-2 U#2)-210 MW	16.08.22 - 19.09.22
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**Members may like to deliberate.**

## Review by Ministry of Power

- Meeting taken by Secretary (Power) on 25.01.2022
- Review of planned maintenance by RPCs for the months of June to September 2022 was discussed
- Requirement for Review of planned maintenance schedule for **April 2022** and **September 2022** was felt, so as to ensure higher availability of thermal generating capacity in the said two months

## Planned Outage Schedule for Thermal Units >=250MW (Apr & Sep '22) – 24<sup>th</sup> LGBR meeting

Station	Unit	Capacity (MW)	Outage from	Outage To	Duration (days)	Remarks
NABHA POWER LTD RAJPURA	1	700	11-Apr-22	30-Apr-22	20	FGD Interconnection for Unit 1
KAWAI TPS (ADANI POWER)	2	660	11-Sep-22	9-Oct-22	29	COH
MAHATMA GANDHI TPS (CLP JHAJJAR)	2	660	1-Apr-22	19-Apr-22	19	For Capital Overhauling of Steam Turbine-Generator. Outage to commence from 01-Mar-2022
TALWANDI SABO TPP	2	660	15-Apr-22	15-May-22	31	Annual Overhauling
BARA TPP (PRAYAGRAJ)	2	660	1-Apr-22	5-May-22	35	Annual Overhaul, Boiler Rectification
KALISINDH TPS (KATPP)	1	600	15-Apr-22	06-May-22	22	Annual Boiler Overhaul
IGSTPP Jhajjar	1	500	1-Apr-22	5-May-22	35	Overhauling of Boiler & TG
DADRI-II (NCTPP)	6	490	22-Mar-22	15-Apr-22	25	Annual OH
HARDUAGANJ TPS	9	250	1-Apr-22	15-May-22	45	Capital Overhauling
SSTPS SURATGARH	4	250	10-Apr-22	29-Apr-22	20	Annual Boiler Overhaul
CTPP CHHABRA	3	250	01-Apr-22	10-May-22	40	Capital Overhaul

## Revised Outage schedule submitted by Utilities

- Revised Outage schedules proposed by Generating utilities for April & September 2022 are:

Station	Unit	Capacity (MW)	Initial Outage from	Initial Outage To	Remarks	Revised Outage from	Revised Outage To
NABHA POWER LTD RAJPURA	1	700	11-Apr-22	30-Apr-22	FGD Interconnection for Unit 1	05-Mar-22	20-Mar-22
BARA TPP (PRAYAGRAJ)	2	660	01-Apr-22	05-May-22	Annual Overhaul, Boiler Rectification	04-Feb-22	08-Mar-22
MAHATMA GANDHI TPS (CLP JHAJJAR)	2	660	01-Apr-22	19-Apr-22	For Capital Overhauling of Steam Turbine-Generator.	-----	-----

**Members may like to deliberate.**

2022-23 Planned Outage Schedule - 24th LGBR



2022-23 Revised Planned Outage Schedule





## Anticipated Energy Avl. & Demand (as per 24<sup>th</sup> LGBR)

State / UT	Energy Availability & Demand (MU)												
	APR-2022	MAY-2022	JUN-2022	JUL-2022	AUG-2022	SEP-2022	OCT-2022	NOV-2022	DEC-2022	JAN-2023	FEB-2023	MAR-2023	
CHANDIGARH	Availability	120	150	170	200	200	180	140	100	110	110	130	
	Requirement	100	120	180	200	190	150	110	100	120	130	110	
	Surplus/Shortfall (MU)	20	30	10	0	10	30	30	0	-10	-20	-20	20
DELHI	Availability	2030	25.0%	6.3%	0.0%	5.3%	20.0%	27.3%	0.0%	-8.3%	-15.4%	-16.7%	18.2%
	Requirement	2330	2760	2860	3310	2910	3470	2870	2370	2380	2950	2670	2720
	Surplus/Shortfall (MU)	2900	3550	4100	4000	3750	3700	2750	2000	2300	2400	2000	2130
HARYANA	Availability	-570	-790	-1240	-690	-840	-230	120	370	80	550	580	
	Requirement	4930	5870	6200	6370	6270	8100	5340	4480	4870	5220	4660	
	Surplus/Shortfall (MU)	4180	5620	6610	6660	6680	6280	5000	3610	4180	4190	3960	
HIMACHAL PRADESH	Availability	750	250	-410	-290	-410	-180	340	870	690	1030	700	
	Requirement	17.9%	4.4%	-6.2%	-4.4%	-6.1%	-2.9%	6.8%	24.1%	16.5%	24.6%	17.7%	
	Surplus/Shortfall (%)	930	1480	1790	2130	2130	1630	990	650	620	560	520	
UTs of J&K and LADAKH	Availability	900	920	1030	1180	1080	1000	930	910	980	1000	890	
	Requirement	30	560	760	950	1050	630	60	-260	-360	-440	-220	
	Surplus/Shortfall (%)	3.3%	60.9%	73.8%	80.5%	97.2%	63.0%	6.5%	-28.6%	-36.7%	-44.0%	-41.6%	
PUNJAB	Availability	1270	1890	2040	2240	2140	2000	1210	930	900	890	870	
	Requirement	1830	1780	1660	1690	1330	1580	1510	1660	1980	1930	1750	
	Surplus/Shortfall (MU)	-560	110	380	550	810	420	-300	-730	-1080	-1040	-880	
RAJASTHAN	Availability	3840	4760	7250	8590	8670	8170	5060	3340	3970	3990	3780	
	Requirement	1770	2140	120	-990	-1110	-1130	1110	1550	1220	1700	1090	
	Surplus/Shortfall (%)	46.1%	45.0%	1.7%	-11.5%	-12.8%	-13.8%	21.9%	46.4%	30.7%	42.6%	28.8%	
UTTAR PRADESH	Availability	7940	9210	9520	9230	9590	8470	8130	8090	8610	8830	7690	
	Requirement	7760	8590	8560	8630	8820	8810	8910	8680	9210	9130	8190	
	Surplus/Shortfall (MU)	180	620	960	600	770	-340	-780	-590	-600	-300	-500	
UTTARAKHAND	Availability	5610	6960	7370	7600	7560	7040	6170	4880	5190	5680	4870	
	Requirement	3840	4760	7250	8590	8670	8170	5060	3340	3970	3990	3780	
	Surplus/Shortfall (%)	46.1%	45.0%	1.7%	-11.5%	-12.8%	-13.8%	21.9%	46.4%	30.7%	42.6%	28.8%	
N.R.	Availability	36470	44130	46140	47920	48040	45090	39340	33520	35110	37660	32710	
	Requirement	34100	40980	45410	47520	46450	45660	37550	30390	34200	34410	31000	
	Surplus/Shortfall (MU)	2370	3150	730	400	1590	-570	1790	3130	910	3250	1710	

## Anticipated Peak MW Avl. & Demand (as per 24<sup>th</sup> LGBR)

State / UT	Peak Availability & Demand (MW)											
	APR-2022	MAY-2022	JUN-2022	JUL-2022	AUG-2022	SEP-2022	OCT-2022	NOV-2022	DEC-2022	JAN-2023	FEB-2023	MAR-2023
CHANDIGARH	Availability	320	350	340	370	360	360	340	250	240	240	270
	Requirement	290	360	380	440	360	410	220	210	270	280	250
	Surplus/Shortfall (MW)	30	-10	-40	-70	0	-50	120	40	-30	-40	20
DELHI	Availability	10.3%	-2.8%	-10.5%	-15.9%	0.0%	-12.2%	54.5%	19.0%	-11.1%	-14.3%	12.5%
	Requirement	6340	6680	6710	6690	6450	6580	6540	6450	6300	6510	6530
	Surplus/Shortfall (MW)	6100	6900	7500	8200	7050	7260	5400	4060	5470	5560	4970
HARYANA	Availability	240	-220	-790	-1510	-600	-680	1140	2390	830	950	1660
	Requirement	3.9%	-3.2%	-10.5%	-18.4%	-8.5%	-8.4%	21.1%	58.9%	15.2%	17.1%	33.4%
	Surplus/Shortfall (%)	10750	11510	11670	11640	11600	11600	11160	10740	10690	11160	11340
HIMACHAL PRADESH	Availability	9030	9570	12030	12700	11990	10840	9200	6930	8010	7930	7590
	Requirement	1720	1640	-360	-1060	-390	760	1960	3810	2680	3230	2870
	Surplus/Shortfall (%)	19.0%	16.6%	-3.0%	-8.3%	-3.3%	7.0%	21.3%	55.0%	33.5%	40.7%	33.9%
UTs of J&K and LADAKH	Availability	3160	3200	3250	3250	3220	3220	3130	2900	2930	2910	3110
	Requirement	1650	1510	1660	1680	1670	1640	1630	1820	1990	2030	1960
	Surplus/Shortfall (MW)	1510	1690	1590	1570	1550	1580	1500	1090	940	890	1150
PUNJAB	Availability	91.5%	111.9%	95.8%	93.5%	92.8%	96.3%	92.0%	59.3%	47.2%	43.3%	58.7%
	Requirement	3000	3480	3490	3510	3460	3450	3000	3340	3270	3240	3530
	Surplus/Shortfall (%)	3110	2880	2810	2610	2400	2660	2470	2560	2980	3000	2970
RAJASTHAN	Availability	-110	600	680	900	1060	790	530	780	290	240	560
	Requirement	-3.5%	20.8%	24.2%	34.5%	44.2%	29.7%	21.5%	30.5%	9.7%	8.0%	18.9%
	Surplus/Shortfall (%)	10870	12030	12220	12220	12150	12150	11460	11140	11580	11650	11640
UTTAR PRADESH	Availability	8370	8930	15500	15320	14700	14340	9440	6200	7450	7230	7490
	Requirement	2100	3100	-3280	-3180	-2650	-2190	2310	4940	4420	4420	4150
	Surplus/Shortfall (%)	29.9%	34.7%	-21.2%	-20.2%	-17.3%	-15.3%	21.4%	79.3%	55.4%	61.1%	55.4%
UTTARAKHAND	Availability	17980	18830	18870	18080	18240	18650	17980	18410	18950	19180	18750
	Requirement	12200	14000	14300	14790	15500	14650	14360	13810	15410	15130	15780
	Surplus/Shortfall (MW)	5780	4830	4570	3290	2740	4000	3620	4600	3540	4050	2970
N.R.	Availability	47.4%	34.5%	32.0%	22.2%	17.7%	27.3%	25.2%	33.3%	23.0%	26.8%	18.8%
	Requirement	23990	26740	26870	26860	26780	26670	25860	22440	24560	24890	25330
	Surplus/Shortfall (%)	21500	24500	23290	21390	21390	21390	21390	21390	21390	21390	21390

**Thank You**