



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

सं.: उ.क्षे.वि.स./प्रचालन/106/01/2023/5656-5697

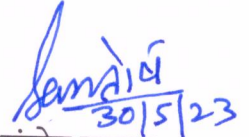
दिनांक: 30.05.2023

विषय: उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 207^{वीं} बैठक के खण्ड-अ में लिए गए निर्णयों का सार।

Subject: Gist of decisions taken in the Part-A of 207th OCC meeting of NRPC.

उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 207^{वीं} बैठक दिनांक 19.05.2023 को आयोजित की गयी। उक्त बैठक की खण्ड-अ में लिए गए निर्णयों का सार **अनुलग्नक - अ** के रूप में संलग्न है।

207th meeting of the Operation Co-ordination Sub-Committee of NRPC was held on 19.05.2023. The Gist of the decisions taken in Part-A of this meeting is enclosed as **Annexure-A**.



(संतोष कुमार)

अधीक्षण अभियंता (प्रचालन)

सेवा में,

प्रचालन समन्वय उप-समिति के सभी सदस्य।

Gist of decisions taken in the Part-A of 207th OCC Meeting

Agenda No. 1: Confirmation of Minutes

Minutes of 206th OCC meeting was issued on 15.05.2023.OCC confirmed the minutes.

Agenda No. 2.1: Supply Position (Provisional) for April 2023

Reasons submitted by states for significant deviation of actual demand from anticipated figures during the month of April 2023 are as under:

• **Delhi**

Cloudy skies and frequent rainfalls in April 2023 caused the below normal average maximum temperature in Delhi so peak demand and energy consumption was on lower side than expected.

• **Himachal Pradesh**

The Anticipation in Energy Requirement in respect of Himachal Pradesh for the month of April, 2023 came on the lower side due to unpredicted rains in the month of April, 2023.

• **Punjab**

It is intimated that actual maximum demand and actual energy requirement are less as compared to anticipated maximum demand and anticipated energy requirement respectively because of decrease in demand of Agricultural as well as other categories of consumers due to rainfall in the state of Punjab during the month of April 2023.

• **Rajasthan**

The percentage variation in Energy requirement and peak demand w.r.t. Anticipated Energy requirement and peak demand for April' 2023 is observed -17.7% and -6.3% due to various unexpected spell of rains during the month of April, 2023 in Rajasthan state.

• **Uttar Pradesh**

Due to unexpected rains and low atmospheric temperature in first half of April, 2023 in comparison to April, 2022, peak demand requirement (in MW) and Energy Consumption was less than anticipated peak demand.

• **Uttarakhand**

The negative variation in actual Energy consumption w.r.t. anticipated Energy requirement due to unexpected rainfall and snowfall in hilly areas in the month of April, 2023, causing drop in temperature in all areas of Uttarakhand and negative variation in peak demand also.

Agenda No. 3.1: Maintenance Programme of Generating units and Transmission Lines

- The maintenance programme of generating units and transmission lines for the month of June 2023 was deliberated in the meeting on 18.05.2023.

Agenda No. 4.: Anticipated Power Supply Position in Northern Region for June 2023

- The updated anticipated Power Supply Position for June 2023 is as below:

| State / UT | Availability / Requirement | Revised Energy (MU) | Revised Peak (MW) | Date of revision |
|------------------|----------------------------|---------------------|-------------------|-----------------------|
| CHANDIGARH | Availability | 170 | 340 | No Revision submitted |
| | Requirement | 192 | 400 | |
| | Surplus / Shortfall | -22 | -60 | |
| | % Surplus / Shortfall | -11.5% | -15.0% | |
| DELHI | Availability | 5120 | 7400 | 18-May-23 |
| | Requirement | 3950 | 7400 | |
| | Surplus / Shortfall | 1170 | 0 | |
| | % Surplus / Shortfall | 29.6% | 0.0% | |
| HARYANA | Availability | 6030 | 9412 | No Revision submitted |
| | Requirement | 6030 | 10541 | |
| | Surplus / Shortfall | 0 | -1129 | |
| | % Surplus / Shortfall | 0.0% | -10.7% | |
| HIMACHAL PRADESH | Availability | 1083 | 1782 | 09-May-23 |
| | Requirement | 1085 | 1755 | |
| | Surplus / Shortfall | -2 | 27 | |
| | % Surplus / Shortfall | -0.2% | 1.5% | |
| J&K and LADAKH | Availability | 2110 | 3530 | No Revision submitted |
| | Requirement | 1610 | 2780 | |
| | Surplus / Shortfall | 500 | 750 | |
| | % Surplus / Shortfall | 31.1% | 27.0% | |
| PUNJAB | Availability | 6570 | 12330 | 18-May-23 |
| | Requirement | 6620 | 11320 | |
| | Surplus / Shortfall | -50 | 1010 | |
| | % Surplus / Shortfall | -0.8% | 8.9% | |
| RAJASTHAN | Availability | 10270 | 18410 | 18-May-23 |
| | Requirement | 9300 | 14900 | |
| | Surplus / Shortfall | 970 | 3510 | |
| | % Surplus / Shortfall | 10.4% | 23.6% | |
| UTTAR PRADESH | Availability | 15345 | 23900 | 12-May-23 |
| | Requirement | 15190 | 27200 | |
| | Surplus / Shortfall | 155 | -3300 | |
| | % Surplus / Shortfall | 1.0% | -12.1% | |
| UTTARAKHAND | Availability | 1365 | 2370 | 11-May-23 |

| State / UT | Availability / Requirement | Revised Energy (MU) | Revised Peak (MW) | Date of revision |
|-----------------|----------------------------|---------------------|-------------------|------------------|
| | Requirement | 1387 | 2380 | |
| | Surplus / Shortfall | -23 | -10 | |
| | % Surplus / Shortfall | -1.6% | -0.4% | |
| NORTHERN REGION | Availability | 48063 | 73400 | |
| | Requirement | 45364 | 72700 | |
| | Surplus / Shortfall | 2699 | 700 | |
| | % Surplus / Shortfall | 5.9% | 1.0% | |

Agenda No. 5: Submission of breakup of Energy Consumption by the states

- The updated status on the submission of energy consumption breakup is presented below:

| State / UT | From | To |
|------------------|----------|----------|
| Delhi | Apr-2018 | Feb-2023 |
| Haryana | Apr-2018 | Mar-2023 |
| Himachal Pradesh | Apr-2018 | Mar-2023 |
| Punjab | Apr-2018 | Mar-2023 |
| Rajasthan | Apr-2018 | Mar-2023 |
| Uttar Pradesh | Apr-2018 | Jan-2023 |
| Uttarakhand | Apr-2018 | Jan-2023 |

Agenda No. 6: Follow-up of issues from various OCC Meetings - Status update

- Updated status is enclosed as **Annexure-A.I.**
- In 207th OCC, SLDCs were requested again to coordinate with respective Transmission utilities of states/UT's and submit details about the updated status of downstream network by State utilities from ISTS Station (**Annexure-A-I.I**) before every OCC meeting.

Agenda No. 7. NR Islanding scheme

- In the meeting (207th OCC), EE(P) apprised forum that draft report submitted by CPRI for Agra-Lalitpur Islanding scheme was deliberated in previous OCC meeting and UPSLDC was asked to take up the issues discussed in the meeting with CPRI. In the 207th OCC meeting UPSLDC representative intimated forum that they have communicated the matter to STU vide letter dated 21.04.2023 for taking up with CPRI and comments from CPRI are awaited. MS, NRPC asked UPSLDC to kindly follow up with CPRI and expedite the matter.
- Representative from UPPTCL apprised forum that with regard to Lucknow-Unchahar islanding scheme, the tender floated for procurement of UFR's for the aforesaid islanding scheme has been cancelled due to technical reasons and retendering has been done.
- Representative from Rajasthan SLDC intimated forum that they have sought status from STU with regard to preparation of DPR for PSDF funding for Jodhpur-BarmerRajwest and Suratgarh islanding scheme, however same is awaited from STU.

- EE(P) apprised forum that Pathankot-RSD islanding scheme has been implemented in March end, however testing/commissioning reports with regard to islanding scheme is awaited. Punjab SLDC representative informed forum that testing/commissioning reports are under approval and same would be shared within a week.
- Further, with regard to Patiala-Nabha Power Rajpura islanding scheme representative from Punjab informed that tendering in under progress.
- With regard to Kullu-Manali islanding scheme representative from HPSLDC apprised forum that discom has intimated that upon approval from their management tentative timeline for implementation is around six months. Further, he intimated that no date has been received from Malana for PFR testing.
- With regard to Shimla-Solan islanding scheme representative from HPSLDC apprised forum that as per the deliberation done in separate meeting held on 11.04.2023 among NRPC, NRLDC, HPSLDC, HPSEBL, HPPTCL and various generators involved in Shimla-Solan islanding scheme, HPSLDC has explored the option of island excluding two generators namely Sumez and Suryakanta generators. The minutes for the aforesaid meeting has been received and same is being followed with generators for under frequency setting below the islanding frequency (47.9 Hz).
- EE(P) apprised forum that Delhi islanding scheme is under revision and there has been one round of meeting to deliberate on steady state analysis of PSSE base case of Delhi islanding scheme and based on the discussion held in the aforesaid meeting, revised scheme submitted by Delhi has been forwarded to NRLDC for comments. NRLDC opined that another physical meeting may be held for further deliberation on the same.

Agenda No. 8. Coal Supply Position of Thermal Plants in Northern Region

- In the meeting, NRPC representative apprised the forum about the coal stock position of generating stations in northern region during current month (till 10th May 2023).
- Average coal stock position of generating stations in northern region, having critical stock, during first ten days of May 2023 is as follows:

| Station | Capacity (MW) | PLF % (prev. months) | Normative Stock Req. (Days) | Actual Stock (Days) |
|-------------------|----------------------|-----------------------------|------------------------------------|----------------------------|
| TALWANDI SABO TPP | 1980 | 73.43 | 26 | 2.5 |

- In the meeting, above mentioned generating station was requested to take adequate measures.

Agenda No. 9. SPS protection logic review at PPGCL (Agenda by UPSLDC)

- The cited matter was deliberated in the 206th OCC meeting held on 18.04.2023 and special meeting held on subject issue on dated 12.05.2023.
- UPSLDC representative apprised forum that based on the discussion in the aforesaid meetings the revised logic has been finalized by UPSLDC which is enclosed as **Annexure-A.II.**
- Further, UPSLDC representative apprised forum that in case of tripping of 765kV Jawaharpur-Gr Noida line, there would be transmission constraint in evacuation of

power from Jawaharpur TPS as there is single ICT of 1000 MVA capacity at 765kV substation Mainpuri. Therefore, SPS need to be planned at Jawaharpur TPS.

- OCC forum approved the revised SPS logic at PPGCL Bara (detailed logic is attached at **Annexure-A.II.**). However, forum asked UPSLDC to submit the plan for complete communication system network/infrastructure in the Bara complex with NRPC Sectt. and NRLDC before implementation of the SPS scheme.

Agenda No. 10. Replacement of existing 100 MVA, 220/132 kV ICT at Sitarganj with regional spare 160MVA, 220/132 kV ICT with provision of the LT Auxiliary Supply from the tertiary (Agenda by Powergrid/NR-3)

- In regard to cited matter, NR-3 Powergrid representative apprised forum that in existing system at Sitarganj S/s there are three ICTs of 100MVA each and all of which do not have provision for tertiary winding for taking auxiliary supply for the systems installed at Sitarganj Substation. Presently these ICTs are taking supply from 02 Nos. UPCL LT Supply Feeder Sources available at Sitarganj Substation which are not reliable in operation and both feeders frequently experience fault or interruption of supply which causes frequent switching of the auxiliary supply (especially during the summer season).
- Further, he intimated that a 160MVA ICT at Sitarganj has been commissioned (DOCO 05.07.2022) as Regional Spare ICT at Sitarganj Substation of NR-3 under the project "Provision for Spare ICTs in Northern Region".
- In the meeting, Powergrid requested forum for the following:
 - replacement of existing 100MVA 220/132kV ICT at Sitarganj with Regional Spare 160MVA 220/132kV ICT (having the provision of the LT Auxiliary Supply from the tertiary) and keeping the replaced 100 MVA220/132 ICT as regional spare.
 - Further, Powergrid also requested for reimbursement of the cost to be incurred in the replacement of the 100MVA 220/132kV ICT at Sitarganj with Regional Spare ICT along with the cost for the provision of necessary tertiary bay equipment & protection system for using the tertiary winding for station auxiliary power supply needs.
 - Required outage for the above replacement may be considered as deemed available in view to system improvement and reliable grid operation.
- Uttarakhand SLDC mentioned that with regard to capitalization of cost, view of beneficiary i.e. State discom may be sought. As State discom is not present in the OCC meeting the same may be deliberated in NRPC forum.
- MS, NRPC was of view that the cited agenda may be taken up in the NRPC meeting for deliberation with CTU, UPCL and other constituents.

Agenda No. 11. Non Compliance of N-1 contingency in ICTs at Allahabad and Mainpuri Sub Stations (Agenda by Powergrid/NR-3)

- In regard to cited matter, NR-3 Powergrid representative apprised forum that in the existing system there are three 315 MVA, ICTs at Allahabad Sub-station and two 315

MVA ICTs and one 500 MVA ICT at Mainpuri Sub-station. Further, he highlighted that loading on these ICTs have increased substantially in past few years.

- In the meeting, Powergrid requested forum that to review the need for additional transformation capacity at Allahabad and Mainpuri substations, CTU may be asked to do the system studies based on present and future forecasted load. Further, for contingency measure due to overloading of ICTs, System Protection Scheme (SPS) may also be considered till implementation of capacity augmentation.
- NRLDC representative intimated forum that N-1 issue at 400/220kV Allahabad (PG) Sub-station is already highlighted in the Q1, Q2 feedback of last F.Y. with CTU. Further, he highlighted that at present there is no major N-1 issue at 400/220kV Mainpuri (PG) Substation.
- CTU representative intimated forum that they have asked Powergrid to confirm whether space is available for new 4th ICT at Allahabad (PG) & Mainpuri (PG) Substation. Based on the load profile communicated by NRLDC and space availability for 4th ICT, they will further deliberate on this matter in their 'Consultation Meeting for Evolving Transmission Schemes' for augmentation of 400/220kV transformation capacity at Allahabad and Mainpuri sub-station.
- OCC forum asked Powergrid to propose a SPS scheme at Allahabad Substation in consultation with UP till implementation of capacity augmentation.

Agenda No. 12. Regional Transmission Deviation Account of NR-Declaration of High inflow season (Agenda by NRPC Sectt.)

- OCC forum agreed that High inflow season for the purpose of calculation of RTDA only would be deliberated and declared in OCC meeting of NRPC every year. Further, High inflow season for the hydro stations (grouped basin-wise) may comprise of consecutive/non-consecutive months of high inflows.
- It was also agreed that hydro generating companies may propose High inflow season for their stations in line with above methodology and furnish latest 5 years water inflow series to NRPC sectt. Subsequently, High inflow season for FY 2023-24 will be declared in upcoming OCC of NRPC. Whereas, High inflow season for hydro stations (grouped basin-wise) for FY 2021-22 and 2022-23 will be finalized considering actual scheduling of the stations.

Table Agenda No.1: Regarding bringing of APCPL-IGSTPS Jhajjar Unit-1 from RSD following Transmission Constraint (Agenda by APCPL-IGSTPS JHAJJAR)

- In the meeting, APCPL representative highlighted that presently two transmission lines namely Jhajjar-Daulatabad Circuit 1 & 2 (both owned by HVPNL) are under forced outage since 08.05.2023 due to tower bending and these lines are expected to be revived around 25th May. Currently, IGSTPS Jhajjar is evacuating power through 400kV Jhajjar-Mundka-1 & 2 with thermal limit of 852 MW each circuit.
- As all India demand is on rising trend and considering dry weather spell in coming days Grid-India has been requesting APCPL to bring Unit-1 on bar from RSD through requisition from its beneficiaries.

- APCPL in its communication to GRID-India (correspondence attached as **Annexure-A.III.**) in this regard has been stating that third machine is available to be brought on the bar. However, due to transmission constraint owing to non-availability of Jhajjar-Daulatabad circuit 1 & 2 (owned by HVPNL) bringing third machine on the bar and running on full load is a safety concern.
- In the meeting NRLDC informed that after analysing transmission network status around the generating plant of Jhajjar, they have requested APCPL to bring the third machine on bar with load restriction of 1200 MW on two available transmission lines.
- APCPL mentioned that they will not be able to back down upto safe evacuation limit of 850 MW in case (n-1) condition arises and requested for their schedule to be restricted to 1000 MW.
- On this matter, NRLDC representatives suggested that APCPL may explore the possibility of bus splitting at Jhajjar S/s with two machine evacuating around 800 MW on one bus with one line and third machine evacuating 500 MW on another bus with second line.
- In that case if one line trips, then third machine is also tripped and two machines can evacuate around 800 MW on another line and vice-a-versa.
- OCC forum asked APCPL to explore the option of bus splitting as suggested by NRLDC.

Table Agenda No.2: SPS Scheme for 2 ICT's of Bawana Substation of DTL (Agenda by DTL)

- DTL representative apprised forum that at Bawana Substation there are total six ICTs and interconnector from DTL Bawana to PPCL Bawana is open due to high fault level at Bawana sub-station. Further, he informed that there are two ICT's at 400 kV Bawana DTL and four ICT's at 400 kV Bawana CCGT.
- DTL representative also mentioned that the 2nos. 315MVA ICTs running in parallel at 400 kV Bawana DTL are feeding 220kV Kanjhawala S/Stn and 220kV Rohini-II S/Stn. The load of 66kV is also fed from these ICTs through 1 no. 100MVA Transformer. The combined maximum load of 220kV Kanjhawala & Rohini-II S/Stn is about 390MW and that of 100MVA Transformer is about 63MW.
- Further, he stated that the proposed SPS at Bawana Substation is designed to take care of N-1 contingency of 2 nos. 315MVA ICTs running in parallel. Proposed SPS scheme is implemented to prevent the cascaded tripping of the 315MVA ICTs in case of contingency by providing load relief on 220kV level. Proposed SPS scheme is implemented on 220kV side of 315 MVA transformers using numerical relays.

SPS Actions:

1. Tripping of 100MVA Transformer at 400kV S/Stn Bawana, thus providing load relief of about 63MW at peak load.
2. Tripping of 66kV RG-23 Ckts 1 & 2 at 220kV S/Stn Kanjhawala, providing total load relief of about 70MW at peak load.

The tripping command from 400kV S/Stn Bawana to 220kV S/Stn Kanjhawala will be sent through numerical current line differential relay on fibre.

- NRLDC representative mentioned that they will study the abovementioned SPS logic and thereby submit its observation.

Follow up issues from previous OCC meetings

Annexure-A. I

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--------------|---------------|---------|----------|-----------|----------|------|----------|------------------|---------------|----------|----------|-------------|----------|------|----------|---------------|----------|--------|----------|--------------|---------------|---------|-----------|-----------|-----------|------|-----------|------------------|---------------|----------|-----------|-------------|-----------|------|-----------|---------------|-----------|
| 1 | Down Stream network by State utilities from ISTS Station | Augmentation of transformation capacity in various existing substations, addition of new substations along with line bays as well as requirement of line bays by STUs for downstream network are under implementation at various locations in Northern Region. Further, 220kV bays have already been commissioned at various substations in NR. For its utilization, downstream 220kV system needs to be commissioned. | List of downstream networks is enclosed in Annexure-A. I. I. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Progress of installing new capacitors and repair of defective capacitors | Information regarding installation of new capacitors and repair of defective capacitors is to be submitted to NRPC Secretariat. | <p>Data upto following months, received from various states / UTs:</p> <table border="1" data-bbox="906 857 1556 1160"> <tr><td>⊙ CHANDIGARH</td><td>Sep-2019</td></tr> <tr><td>⊙ DELHI</td><td>Mar-2023</td></tr> <tr><td>⊙ HARYANA</td><td>Dec-2022</td></tr> <tr><td>⊙ HP</td><td>Jan-2023</td></tr> <tr><td>⊙ J&K and LADAKH</td><td>Not Available</td></tr> <tr><td>⊙ PUNJAB</td><td>Jan-2023</td></tr> <tr><td>⊙ RAJASTHAN</td><td>Mar-2023</td></tr> <tr><td>⊙ UP</td><td>Apr-2023</td></tr> <tr><td>⊙ UTTARAKHAND</td><td>Apr-2023</td></tr> </table> <p>All States/UTs are requested to update status on monthly basis.</p> | ⊙ CHANDIGARH | Sep-2019 | ⊙ DELHI | Mar-2023 | ⊙ HARYANA | Dec-2022 | ⊙ HP | Jan-2023 | ⊙ J&K and LADAKH | Not Available | ⊙ PUNJAB | Jan-2023 | ⊙ RAJASTHAN | Mar-2023 | ⊙ UP | Apr-2023 | ⊙ UTTARAKHAND | Apr-2023 | | | | | | | | | | | | | | | | | | | | |
| ⊙ CHANDIGARH | Sep-2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ DELHI | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ HARYANA | Dec-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ HP | Jan-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ J&K and LADAKH | Not Available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ PUNJAB | Jan-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ RAJASTHAN | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ UP | Apr-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ UTTARAKHAND | Apr-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Healthiness of defence mechanism: Self-certification | <p>Report of mock exercise for healthiness of UFRs carried out by utilities themselves on quarterly basis is to be submitted to NRPC Secretariat and NRLDC. All utilities were advised to certify specifically, in the report that “All the UFRs are checked and found functional”.</p> <p>In compliance of NPC decision, NR states/constituents agreed to raise the AUFR settings by 0.2 Hz in 47th TCC/49th NRPC meetings.</p> | <p>Data upto following months, received from various states / UTs:</p> <table border="1" data-bbox="906 1357 1556 1688"> <tr><td>⊙ CHANDIGARH</td><td>Not Available</td></tr> <tr><td>⊙ DELHI</td><td>Dec-2022</td></tr> <tr><td>⊙ HARYANA</td><td>Mar-2023</td></tr> <tr><td>⊙ HP</td><td>Apr-2023</td></tr> <tr><td>⊙ J&K and LADAKH</td><td>Not Available</td></tr> <tr><td>⊙ PUNJAB</td><td>Mar-2023</td></tr> <tr><td>⊙ RAJASTHAN</td><td>Dec-2022</td></tr> <tr><td>⊙ UP</td><td>Mar-2023</td></tr> <tr><td>⊙ UTTARAKHAND</td><td>Mar-2023</td></tr> <tr><td>⊙ BBMB</td><td>Mar-2023</td></tr> </table> <p>All States/UTs are requested to update status for healthiness of UFRs on monthly basis for islanding schemes and on quarterly basis for the rest .</p> <p>Status:</p> <table border="1" data-bbox="906 1917 1556 2213"> <tr><td>⊙ CHANDIGARH</td><td>Not Available</td></tr> <tr><td>⊙ DELHI</td><td>Increased</td></tr> <tr><td>⊙ HARYANA</td><td>Increased</td></tr> <tr><td>⊙ HP</td><td>Increased</td></tr> <tr><td>⊙ J&K and LADAKH</td><td>Not increased</td></tr> <tr><td>⊙ PUNJAB</td><td>Increased</td></tr> <tr><td>⊙ RAJASTHAN</td><td>Increased</td></tr> <tr><td>⊙ UP</td><td>Increased</td></tr> <tr><td>⊙ UTTARAKHAND</td><td>Increased</td></tr> </table> | ⊙ CHANDIGARH | Not Available | ⊙ DELHI | Dec-2022 | ⊙ HARYANA | Mar-2023 | ⊙ HP | Apr-2023 | ⊙ J&K and LADAKH | Not Available | ⊙ PUNJAB | Mar-2023 | ⊙ RAJASTHAN | Dec-2022 | ⊙ UP | Mar-2023 | ⊙ UTTARAKHAND | Mar-2023 | ⊙ BBMB | Mar-2023 | ⊙ CHANDIGARH | Not Available | ⊙ DELHI | Increased | ⊙ HARYANA | Increased | ⊙ HP | Increased | ⊙ J&K and LADAKH | Not increased | ⊙ PUNJAB | Increased | ⊙ RAJASTHAN | Increased | ⊙ UP | Increased | ⊙ UTTARAKHAND | Increased |
| ⊙ CHANDIGARH | Not Available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ DELHI | Dec-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ HARYANA | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ HP | Apr-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ J&K and LADAKH | Not Available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ PUNJAB | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ RAJASTHAN | Dec-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ UP | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ UTTARAKHAND | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ BBMB | Mar-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ CHANDIGARH | Not Available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ DELHI | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ HARYANA | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ HP | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ J&K and LADAKH | Not increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ PUNJAB | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ RAJASTHAN | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ UP | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ⊙ UTTARAKHAND | Increased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|---------|-------------------|---|---------|------------------------|---|-----------|------------------------|---|--------|------------------------|---|-----------|---|---|----|----------------------------------|
| | | | <table border="1"> <tr> <td>©</td> <td>BBMB</td> <td>Increased</td> </tr> </table> <p>J&K and LADAKH were requested to update status for increasing settings of UFRs.</p> | © | BBMB | Increased | | | | | | | | | | | | | | | |
| © | BBMB | Increased | | | | | | | | | | | | | | | | | | | |
| 4 | Status of FGD installation vis-à-vis installation plan at identified TPS | <p>List of FGDs to be installed in NR was finalized in the 36th TCC (special) meeting dt. 14.09.2017. All SLDCs were regularly requested since 144th OCC meeting to take up with the concerned generators where FGD was required to be installed.</p> <p>Further, progress of FGD installation work on monthly basis is monitored in OCC meetings.</p> | <p>Status of the information submission (month) from states / utilities is as under:</p> <table border="1"> <tr> <td>©</td> <td>HARYANA</td> <td>Sep-2022</td> </tr> <tr> <td>©</td> <td>PUNJAB</td> <td>May-2023</td> </tr> <tr> <td>©</td> <td>RAJASTHAN</td> <td>May-2023</td> </tr> <tr> <td>©</td> <td>UP</td> <td>May-2023</td> </tr> <tr> <td>©</td> <td>NTPC</td> <td>Feb-2023</td> </tr> </table> <p>FGD status details are enclosed as Annexure-A. I. II.</p> <p>All States/utilities are requested to update status of FGD installation progress on monthly basis.</p> | © | HARYANA | Sep-2022 | © | PUNJAB | May-2023 | © | RAJASTHAN | May-2023 | © | UP | May-2023 | © | NTPC | Feb-2023 | | | |
| © | HARYANA | Sep-2022 | | | | | | | | | | | | | | | | | | | |
| © | PUNJAB | May-2023 | | | | | | | | | | | | | | | | | | | |
| © | RAJASTHAN | May-2023 | | | | | | | | | | | | | | | | | | | |
| © | UP | May-2023 | | | | | | | | | | | | | | | | | | | |
| © | NTPC | Feb-2023 | | | | | | | | | | | | | | | | | | | |
| 5 | Information about variable charges of all generating units in the Region | The variable charges detail for different generating units are available on the MERIT Order Portal. | All states/UTs are requested to submit daily data on MERIT Order Portal timely. | | | | | | | | | | | | | | | | | | |
| 6 | Status of Automatic Demand Management System in NR states/UT's | The status of ADMS implementation in NR, which is mandated in clause 5.4.2 (d) of IEGC by SLDC/SEB/DISCOMs is presented in the following table: | <p>Status:</p> <table border="1"> <tr> <td>©</td> <td>DELHI</td> <td>Fully implemented</td> </tr> <tr> <td>©</td> <td>HARYANA</td> <td>Scheme not implemented</td> </tr> <tr> <td>©</td> <td>HP</td> <td>Scheme not implemented</td> </tr> <tr> <td>©</td> <td>PUNJAB</td> <td>Scheme not implemented</td> </tr> <tr> <td>©</td> <td>RAJASTHAN</td> <td>Under implementation. Likely completion schedule is 30.06.2023.</td> </tr> <tr> <td>©</td> <td>UP</td> <td>Scheme implemented by NPCIL only</td> </tr> </table> | © | DELHI | Fully implemented | © | HARYANA | Scheme not implemented | © | HP | Scheme not implemented | © | PUNJAB | Scheme not implemented | © | RAJASTHAN | Under implementation. Likely completion schedule is 30.06.2023. | © | UP | Scheme implemented by NPCIL only |
| © | DELHI | Fully implemented | | | | | | | | | | | | | | | | | | | |
| © | HARYANA | Scheme not implemented | | | | | | | | | | | | | | | | | | | |
| © | HP | Scheme not implemented | | | | | | | | | | | | | | | | | | | |
| © | PUNJAB | Scheme not implemented | | | | | | | | | | | | | | | | | | | |
| © | RAJASTHAN | Under implementation. Likely completion schedule is 30.06.2023. | | | | | | | | | | | | | | | | | | | |
| © | UP | Scheme implemented by NPCIL only | | | | | | | | | | | | | | | | | | | |

| 7 | Reactive compensation at 220 kV/ 400 kV level at 15 substations | | | |
|------|---|---------------|--|---|
| | State / Utility | Substation | Reactor | Status |
| i | POWERGRID | Kurukshetra | 500 MVAR TCR | Anticipated commissioning: May'23 |
| ii | DTL | Peeragarhi | 1x50 MVAR at 220 kV | PO awarded to M/s Kanohar Electricals Ltd. Drawings approved and under final stage inspection. GIS Bay is already available. |
| iii | DTL | Harsh Vihar | 2x50 MVAR at 220 kV | PO awarded to M/s Kanohar Electricals Ltd. Drawings approved and under final stage inspection. GIS Bay is already available. |
| iv | DTL | Mundka | 1x125 MVAR at 400 kV & 1x25 MVAR at 220 kV | Bay work awarded to M/s. Ethos. Bay work is expected to be completed by Dec.21. Reactor part tender is dropped and at present same is under revision. |
| v | DTL | Bamnauli | 2x25 MVAR at 220 kV | Bay work awarded to M/s. Ethos. Bay work is expected to be completed by Dec.21. Reactor part tender is dropped and at present same is under revision. |
| vi | DTL | Indraprastha | 2x25 MVAR at 220 kV | Bay work awarded to M/s. Ethos. Bay work is expected to be completed by Dec.21. Reactor part tender is dropped and at present same is under revision. |
| vii | DTL | Electric Lane | 1x50 MVAR at 220 kV | Under Re-tendering due to Single Bid |
| viii | PUNJAB | Dhuri | 1x125 MVAR at 400 kV & 1x25 MVAR at 220 kV | 400kV Reactors - LOA issued on dated. 17.08.2021 and date of completion of project is 18 months from the date of LOA. 220kV Reactors - LOA issued on dated 19.07.2021 and date of completion of project is 18 months from the date of LOA. Commsioned 27th Jan'23 |
| ix | PUNJAB | Nakodar | 1x25 MVAR at 220 kV | 1x25 MVAR Reactor at Nakodar has been commissioned on dated 13th February' 2023. |
| x | PTCUL | Kashipur | 1x125 MVAR at 400 kV | Price bid has been opened and is under evaluation. Retendered in Jan'23 |
| xi | RAJASTHAN | Akal | 1x25 MVAR | 1x25 MVAR Reactor at Akal has been commissioned on dated 25th July' 2022. |

| | | | | |
|------|-----------|-----------------|------------|---|
| xii | RAJASTHAN | Bikaner | 1x25 MVar | Main bus shutdown is required for commissioning of 1x25 MVAR reactor at Bikaner, same is expected upto March' 2023. |
| xiii | RAJASTHAN | Suratgarh | 1x25 MVar | 1x25 MVAR Reactor at Suratgarh has been commissioned on dated 25th November' 2022. |
| xiv | RAJASTHAN | Barmer & others | 13x25 MVar | Agreement signed on dt. 22.06.2020. Grant of Ist Instalment received on dt.19.02.21 &work order placed on dt. 7.04.2022 to M/s Kanohar Electricals Ltd. Schedule time is 18 months. |
| xv | RAJASTHAN | Jodhpur | 1x125 MVar | Agreement signed on dt. 22.06.2020. Grant of Ist Instalment received on dt.19.02.21 &work order placed on dt. 7.04.2022 to M/s Kanohar Electricals Ltd. Schedule time is 18 months. |

| 1. Down Stream network by State utilities from ISTS Station: | | | | | | Annexure-A-I.I |
|--|--|--|--|---|----------------|--|
| Sl. No. | Substation | Downstream network bays | Status of bays | Planned 220 kV system and Implementation status | Revised Target | Remarks |
| 1 | 400/220kV, 3x315 MVA Samba | Commissioned: 8 Total: 8 | Utilized: 6 Unutilized: 2 | • Network to be planned for 2 bays. | Jun'23 | 02 No. of bays shall be utilized for LILO-II of 220kV Hiranagar Bishnah Transmission Line, the work of which is under progress and shall be completed by end of Jun'2023. Updated in 207th OCC by JKPTCL. |
| 2 | 400/220kV, 2x315 MVA New Wanpoh | Commissioned: 6 Total: 6 | Utilized: 2 Unutilized: 4 | • 220 kV New Wanpoh - Alusteng D/c Line | End of 2023 | 02 No. of bays are to be utilized for connecting 220kV New Wanpoh-Alusteng D/c Line. The work is in progress and expected to be commission by the end of 2023. Updated in 204th OCC by JKPTCL. |
| | | | | • 220 kV New Wanpoh - Mattan D/c Line | End of 2024 | 02 No. of bays are to be utilized for connecting 220kV New Wanpoh-Mattan D/c Line. The funding source for the project is being identified and the project is expected to be completed by ending 2024. Updated in 204th OCC by JKPTCL. |
| 3 | 400/220kV, 2x315 MVA Amargarh | Commissioned: 6 Total: 6 | Utilized: 4 Unutilized: 2 | • 220kV D/C line from 400/220kV Kunzar - 220/33kV Sheeri | End of 2024 | 02 No. of bays are proposed to be utilized for connecting 220/132 kV GSS Loolipora. The funding source for the project is being identified and the project is expected to be completed by ending 2024. Updated in 204th OCC by JKPTCL. |
| 4 | 400/220kV, 2x500 MVA Kurukshetra (GIS) | Commissioned: 8 Total: 8 | Utilized: 6 Unutilized: 2 | • 220kV Bhadson (Kurukshetra) – Ramana Ramani D/c line | Jul'24 | Updated in 205th OCC by HVPNL |
| 5 | 400/220 kV, 2x315 MVA Dehradun | Commissioned: 6 Total: 6 | Utilized: 2 Unutilized: 4 | • Network to be planned for 4 bays | - | PTCUL to update the status. |
| 6 | Shahjahanpur, 2x315 MVA 400/220 kV | Commissioned: 6 Approved/Under Implementation:1 Total: 7 | Utilized: 5 Unutilized: 1 (1 bays to be utilized shortly) Approved/Under Implementation:1 | • 220 kV D/C Shahajahanpur (PG) - Gola line | 31.05.2023 | Due to ROW issue work was delayd.Updated in 207th OCC by UPPTCL |
| | | | | • LILO of Sitapur – Shahjahanpur 220 kV SC line at Shahjahanpur (PG) | Commissioned | Energization date: 25.02.2022 updated by UPPTCL in 196th OCC |
| 7 | Hamirpur 400/220 kV Sub-station | Commissioned: 8 Total: 8 | Utilized: 4 Unutilized: 4 (2 bays to be utilized shortly) | • 220 kV Hamirpur-Dehan D/c line | Commissioned | Commisioned date: 09.06.2022. Updated in 198th OCC by HPPTCL |
| | | | | • Network to be planned for 4 bays | - | HPPTCL to update the status. |
| 8 | Sikar 400/220kV, 1x 315 MVA S/s | Commissioned: 8 Total: 8 | Utilized: 6 Unutilized: 2 | • LILO of 220 kV Sikar (220 kV GSS)-Dhod S/c line at Sikar (PG) | Commissioned | LILO of 220 kV S/C Sikar-Dhod line at 400 kV GSS PGCIL, Sikar has been charged on dt. 31.03.2022 |
| | | | | • Network to be planned for 2 bays. | - | Against the 3rd ICT at 400 kV GSS Sikar, only 2 bays were constructed and same has been utilized by RVPN by constructing LILO of 220 kV S/C Sikar – Dhod line as updated by RVPNL in 195th OCC |
| 9 | Bhiwani 400/220kV S/s | Commissioned: 6 Total: 6 | Utilized: 2 Unutilized: 4 | • 220 kV D/C line Bhiwani (PG) – Bhiwani (HVPNL) line | Commissioned | Updated in 202nd OCC by HVPNL |
| | | | | • 220 kV Bhiwani (PG) - Isherwal (HVPNL) D/c line. | Jun'23 | Issue related to ROW as intimated in 202nd OCC by HVPNL. |
| | | | | • 220 kV Bhiwani (PG) - Dadhibana (HVPNL) D/c line. | Apr'24 | Issue related to ROW as intimated in 192nd OCC by HVPNL. |
| 10 | Jind 400/220kV S/s | Commissioned: 4 Approved:4 Total: 8 | Utilized: 4 Unutilized: 0 | • LILO of both circuits of 220 kV Jind HVPNL to PTPS D/C line at 400 kV substation PGCIL Khatkar (Jind) with 0.5 sq inch ACSR conductor | May'24 | Tender is under process Updated in 205th OCC by HVPNL. |
| 11 | 400/220kV Tughlakabad | Commissioned: 6 Under Implementation: 4 | Utilized: 6 Unutilized: 0 | • RK Puram – Tughlakabad (UG Cable) 220kV D/c line – March 2023. | - | DTL to update the status. |

| Sl. No. | Substation | Downstream network bays | Status of bays | Planned 220 kV system and Implementation status | Revised Target | Remarks |
|---------|----------------------------------|------------------------------------|------------------------|---|----------------|---|
| | GIS | Total: 10 | Under Implementation:4 | • Masjid Mor – Tughlakabad 220kV D/c line. | - | DTL to update the status. |
| 12 | 400/220kV Kala Amb GIS (TBCB) | Commissioned: 6 | Utilized: 0 | • HPPTCL has planned one no. of 220kV D/c line from Kala Amb 400/220kV S/s to 220/132kV Kala Amb S/s | Jun'23 | Updated in 205th OCC by HPPTCL |
| | | Total: 6 | Unutilized: 6 | • Network to be planned for 4 bays | - | HPPTCL to update the status. |
| 13 | 400/220kV Kadarpur Sub-station | Commissioned: 8 | Utilized: 0 | • LILO of both circuits of 220 KV Pali - Sector 56 D/C line at Kadarpur along with augmentation of existing conductor from 220 KV Sector-56 to LILO point with 0.4 sq inch AL-59 conductor. | Dec'23 | Forest approval is pending for 220 KV Pali - Sector 56 D/C line. Updated in 205th OCC by HVPNL |
| | | Total: 8 | Unutilized: 8 | • LILO of both circuits of 220KV Sector 65 - Pali D/C line at Kadarpur along with augmentation of balance 0.4 sq. inch ACSR conductor of 220 kV Kadarpur - Sector 65 D/C line with 0.4sq inch AL-59 conductor | Dec'23 | Updated in 205th OCC by HVPNL |
| 14 | 400/220kV Sohna Road Sub-station | Commissioned: 8 | Utilized: 2 | • LILO of both circuits of 220kV D/c Sector-69 - Roj Ka Meo line at 400kV Sohna Road | Jun'23 | Updated in 197th OCC by HVPNL |
| | | Total: 8 | Unutilized: 4 | • LILO of both circuits of 220kV D/c Badshahpur-Sec77 line at 400kV Sohna Road | - | The matter is subjudice in Hon'ble Punjab & Haryana High court, Chandigarh Updated in 205th OCC by HVPNL. Status:- Earlier 02 nos 220 kV line bays were to be utilized for the 220 kV GIS S/Stn. Sec-77, Gurugram but due to denotification of land of the 220 kV GIS S/Stn. Sec-77 the said substation is now going to be dismantled and a new substation is proposed at Sec-75A, Gurugram. Now, these 02 no. 220 kV line bays may be utilized at 220 kV GIS S/Stn Sec-75A, Gurugram. |
| 15 | 400/220kV Prithla Sub-station | Commissioned: 8 | Utilized: 4 | • Prithla - Harfali 220kV D/c line with LILO of one ckt at Meerpur Kurali | 31.03.2024 | Updated in 205th OCC by HVPNL |
| | | Total: 8 | Unutilized: 4 | • LILO of both ckt of 220kV D/c Ranga Rajpur – Palwal line | Commissioned | Commisioned date: 31.12.2021. Updated in 198th OCC by HVPNL |
| | | | Under Implementation:2 | • 220kV D/C for Sector78, Faridabad | 31.03.2024 | Issue related to ROW and Pending crossing approval from Northern Railways and DFCCIL. as intimated in 205th OCC by HVPNL. |
| | | | | • Prithla - Sector 89 Faridabad 220kV D/c line | 31.03.2024 | Updated in 205th OCC by HVPNL |
| 16 | 400/220kV Sonapat Sub-station | Commissioned: 6 | Utilized: 2 | • LILO of both circuits of 220kV Samalkha - Mohana line at Sonapat | 05.10.2023 | Updated in 205th OCC by HVPNL |
| | | Under Implementation:2 Total: 8 | Unutilized: 4 Under | • Sonapat - HSIISC Rai 220kV D/c line | - | Updated in 205th OCC by HVPNL. Status: Due to non-performance of work of 220KV GIS Rai S/Stn, the Contract has been terminated & blacklisted by O/o XEN/WB O/o CE/PD&C, HVPNL, Panchkula vide Ch-100/HDP-2418/REC-254/Xen(WB) Dated 24.02.2023. Now pending work will be caried out by HVPNL/ Departmentely |

| Sl. No. | Substation | Downstream network bays | Status of bays | Planned 220 kV system and Implementation status | Revised Target | Remarks |
|---------|----------------------------------|--|---|--|----------------|--|
| | | | Implementation:2 | • Sonapat - Kharkhoda Pocket A 220kV D/c line | 31.07.2024 | Updated in 205th OCC by HVPNL. Status: The Possession of land for construction of 220KV S/Stn. Pocket-A i.e 6.33 Acres and for Pocket-B is 5.55 Acres has been taken over by HVPNL. Work order yet to be issued by O/o CE/PD&C, Panchkula for construction of 2 no. 220KV GIS S/Stn Pocket-A & Pocket-B. |
| 17 | 400/220kV Neemrana Sub-station | Commissioned: 6 Total: 6 | Utilized: 4 Unutilized: 2 | • LILO of Bhiwadi - Neemrana 220kV S/c line at Neemrana (PG) | - | Work order is finalized as updated in 201st OCC by RVPNL. 5 months from layout finalization. |
| 18 | 400/220kV Kotputli Sub-station | Commissioned: 6 Total: 6 | Utilized: 4 Unutilized: 2 | • Kotputli - Pathreda 220kV D/c line | - | Bid documents under approval as updated in 195th OCC by RVPNL. |
| 19 | 400/220kV Jalandhar Sub-station | Commissioned: 10 Total: 10 | Utilized: 8 Unutilized: 2 | • Network to be planned for 2 bays | May'24 | LILO of 220 kV BBMB Jalandhar - Butari line at 400 kV PGCIL Jalandhar being planned. Work expected to be completed by May 2024. Updated in 198th OCC by PSTCL. |
| 20 | 400/220kV Roorkee Sub-station | Commissioned: 6 Total: 6 | Utilized: 4 Unutilized: 2 | • Roorkee (PG)-Pirankaliyar 220kV D/c line | Commissioned | Roorkee (PG)-Pirankaliyar 220kV D/c line commissioned in 2020 as intimated by PTCUL in 197th OCC |
| 21 | 400/220kV Lucknow Sub-station | Commissioned: 8 Total: 8 | Utilized: 4 Unutilized: 4 | • Network to be planned for 2 bays | Jun'23 | • Lucknow -Kanduni, 220 kV D/C line expected energization date Jun'23 updated by UPPTCL in 205th OCC due to sub-station commissioning delay • No planning for 2 no. of bays updated by UPPTCL in 196th OCC. The same has been communicated to Powergrid. |
| 22 | 400/220kV Gorakhpur Sub-station | Commissioned: 6 Total: 6 | Utilized: 4 Unutilized: 2 | • Network to be planned for 2 bays | 31.05.2023 | • Gorakhpur(PG)- Maharajganj, 220 kV D/C line expected energization date is 15.04.2023 updated by UPPTCL in 205th OCC |
| 23 | 400/220kV Fatehpur Sub-station | Commissioned: 8 Under Implementation:2 Total: 10 | Utilized: 6 Unutilized: 2 Under Implementation:2 | • Network to be planned for 2 bays | - | • UPPTCL intimated that 02 no. of bays under finalization stage. In 201st OCC, UPPTCL intimated that it is finalized that Khaga s/s will be connected (tentative time 1.5 years). • No planning for 2 no. of bays updated by UPPTCL in 196th OCC. The same has been communicated to Powergrid. |
| 24 | 400/220kV Abdullapur Sub-station | Commissioned: 10 Under Implementation:2 Total: 12 | Utilized: 10 Unutilized: 0 Under Implementation:2 | • Abdullapur – Rajokheri 220kV D/c line | Jul'23 | SCDA System work pending at 220 KV S/stn. Rajokheri Updated in 205th OCC by HVPNL |
| 25 | 400/220kV Panchkula Sub-station | Commissioned: 8 Under tender:2 Total: 10 Out of these 10 nos. 220kV Line Bays, 2 bays would be used by the lines being constructed by POWERGRID (Chandigarh-2) and balance 8 nos. bays would be used by HVPNL | Utilized: 2 Unutilized: 4 Under Implementation:2 | • Panchkula – Pinjore 220kV D/c line | Sep'23 | Updated in 205th OCC by HVPNL |
| | | | | • Panchkula – Sector-32 220kV D/c line | Sep'23 | Updated in 205th OCC by HVPNL |
| | | | | • Panchkula – Raiwali 220kV D/c line | Commissioned | Updated in 194th OCC by HVPNL |
| | | | | • Panchkula – Sadhaura 220kV D/c line: Sep'23 | Jul'24 | Updated in 205th OCC by HVPNL |
| | | Commissioned:7 | Utilized: 6 | • Amritsar – Patti 220kV S/c line | May'23 | Route survey/tender under process. Work expected to be completed by May 2023. Updated in 198th OCC by PSTCL. |

| Sl. No. | Substation | Downstream network bays | Status of bays | Planned 220 kV system and Implementation status | Revised Target | Remarks |
|---------|------------------------------|---|--|--|----------------|--|
| 26 | 400/220kV Amritsar S/s | Approved in 50th NRPC- 1 no. Total: 8 | Unutilized: 1 Approved in 50th NRPC- 1 no. | • Amritsar – Rashiana 220kV S/c line (2 bays shall be required for above lines. However, 1 unutilized bay shall be used for Patti and requirement of one additional bay approved for Rashiana by NRPC) | May'23 | Route survey/tender under process. Work expected to be completed by May 2023. Updated in 198th OCC by PSTCL. |
| 27 | 400/220kV Bagpat S/s | Commissioned: 8 Total: 8 | Utilized:6 Unutilized: 2 | • Bagpat - Modipuram 220kV D/c line | Commissioned | Updated in 201st OCC by UPPTCL |
| 28 | 400/220kV Bahadurgarh S/s | Commissioned: 4 Total: 4 | Utilized:2 Unutilized: 2 | • LILO of 220 kV Nunamajra-Daultabad S/c line at 400 kV Bahadurgarh PGCIL | 31.03.2024 | Updated in 205th OCC by HVPNL. Status: Tentative route stands submitted by TS wing and accordingly BOQ has been submitted by design wing to contracts wing for award of work. |
| | | | | • Bahadurgarh - METL 220kV D/c line (Deposit work of M/s METL) | 31.03.2024 | Updated in 205th OCC by HVPNL. Status: Tentative route stands submitted by TS wing and accordingly BOQ has been submitted by design wing to contracts wing for award of work. |
| | | | | • Bahadurgarh - Kharkhoda Pocket B 220kV D/c line | 31.07.2024 | |
| 29 | 400/220kV Jaipur (South) S/s | Commissioned: 4 Total: 4 | Utilized:2 Unutilized: 2 | • Network to be planned for 2 bays. | - | LILO case of 220 kV Dausa – Sawai Madhopur line at 400 kV GSS Jaipur South (PG) is under WTD approval as updated by RVPNL in 195th OCC |
| 30 | 400/220kV Sohawal S/s | Commissioned: 8 Total: 8 | Utilized: 8 | • Sohawal - Barabanki 220kV D/c line | Commissioned | Energization date: 14.04.2018 updated by UPPTCL in 196th OCC |
| | | | | • Sohawal - New Tanda 220kV D/c line | Commissioned | Energization date: 28.05.2019 updated by UPPTCL in 196th OCC |
| | | | | • Network to be planned for 2 bays | Commissioned | • Sohawal - Gonda 220kV S/c line (Energization date: 27.04.2020) updated by UPPTCL in 196th OCC • Sohawal - Bahraich 220kV S/c line (Energization date: 15.02.2021) updated by UPPTCL in 196th OCC |
| 31 | 400/220kV, Kankroli | Commissioned: 6 Total: 6 | Utilized: 4 Unutilized: 2 | • Network to be planned for 2 bays | - | RVPNL to update the status |
| 32 | 400/220kV, Manesar | Commissioned: 8 Total: 8 | Utilized: 4 Unutilized: 4 | • Network to be planned for 4 bays | - | Status:- 2nos bays are being utilised for 220 kV D/C Panchgaon (PGCIL)-Panchgaon Ckt-I & 220 kV D/C Panchgaon (PGCIL)-Panchgaon Ckt-II, charged on dated 05.09.2022 & 20.10.2022 respectively. The 2nos bays may be utilised by HVPNL in future. |
| 33 | 400/220kV, Saharanpur | Commissioned: 6 Under Implementation:2 Total: 8 | Utilized: 6 Unutilized: 0 Under Implementation:2 | • Network to be planned for 2 bays | Commissioned | Saharanpur(PG)-Devband D/c line (Energization date: 20.04.2023) updated by UPPTCL in 207th OCC |
| 34 | 400/220kV, Wagoora | Commissioned: 10 Total: 10 | Utilized: 6 Unutilized: 4 | • Network to be planned for 4 bays | - | PDD, J&K to update the status. |
| 35 | 400/220kV, Ludhiana | Commissioned: 9 Total: 9 | Utilized: 8 Unutilized: 1 | • Network to be planned for 1 bay | May'23 | Direct circuit from 220 kV Lalton Kalan to Dhandari Kalan to be diverted to 400 kV PGCIL Ludhiana. Work expected to be completed by May 2023. Updated in 205th OCC by PSTCL. |

| Sl. No. | Substation | Downstream network bays | Status of bays | Planned 220 kV system and Implementation status | Revised Target | Remarks |
|---------|----------------------------------|---|--|--|----------------|---|
| 36 | 400/220kV, Chamba (Chamera Pool) | Commissioned: 3 Under tender:1 Total: 4 | Utilized:3 Unutilized: 0 Under tender:1 | • Stringing of 2nd ckt of Chamera Pool – Karian 220kV D/c line | - | Stringing of 2nd Circuit of Chamera Pool-Karian Tansmission line has been completed & terminal bay at 400/220 kV chamera pooling substation (PGCIL) is not ready.Updated in 198th OCC by HPPTCL |
| 37 | 400/220kV, Mainpuri | Commissioned: 6 Under Implementation:2 Total: 8 | Utilized: 6 Unutilized: 0 Under Implementation:2 | • Network to be planned for 2 bays | - | • 02 no. of bays under finalization stage updated by UPPTCL in 196th OCC. Mainpuri S/s planned. Land is not finalized, therefore timeline not available as intimated by UPPTCL in 201st OCC. |
| 38 | 400/220kV, Patiala | Commissioned: 8 Total: 8 | Utilized: 6 Unutilized: 2 | • Network to be planned for 2 bays | May'24 | 2 Nos. bays for 400 kV PGCIL Patiala - 220 kV Bhadson (D/C) line being planned. Work expected to be completed by May 2024. Updated in 198th OCC by PSTCL. |

2. Establishment of new 400/220kV substations in Northern Region:

| Sl. No. | Name of Substation | MVA Capacity | Expected Schedule | Downstream connectivity by States |
|---------|---|--------------|-------------------|--|
| 1 | 400/220kV Dwarka-I GIS (8 nos. of 220kV bays) | 4x 500 | Mar'22 | DTL to update the status |
| 2 | 220/66kV Chandigarh GIS (8 nos. of 66kV bays) | 2x 160 | Apr'22 | Chandigarh to update the status. |
| 3 | 400/220kV Jauljivi GIS Out of these 8 nos. 220kV Line Bays, 4 nos. (Pithoragath-2, & Dhauliganga-2) would be used by the lines being constructed by POWERGRID and balance 4 nos. bays would be used by the lines being constructed by PTCUL. | 2x315 | Feb'22 | <ul style="list-style-type: none"> • 220kV Almora-Jauljibi line • 220kV Brammah-Jauljibi line PTCUL to update the status of lines. |

FGD Status

Updated status of FGD related data submission

NTPC (27.02.2023)

MEJA Stage-I

RIHAND STPS

SINGRAULI STPS

TANDA Stage-I

TANDA Stage-II

UNCHAHAR TPS

UPRVUNL (17.05.2023)

ANPARA TPS

HARDUAGANJ TPS

OBRA TPS

PARICHHA TPS

PSPCL (16.02.2023)

GGSSSTP, Ropar

GH TPS (LEH.MOH.)

RRVUNL (16.05.2023)

CHHABRA SCPP

CHHABRA TPP

KALISINDH TPS

KOTA TPS

SURATGARH SCTPS

SURATGARH TPS

Updated status of FGD related data submission

**Lalitpur Power Gen. Co. Ltd.
(17.10.2022)**

Lalitpur TPS

**Lanco Anpara Power Ltd.
(18.06.2022)**

ANPARA-C TPS

HGPCL (14.09.2022)

PANIPAT TPS

RAJIV GANDHI TPS

YAMUNA NAGAR TPS

Adani Power Ltd. (18.02.2022)

KAWAI TPS

**Rosa Power Supply Company
(18.06.2022)**

Rosa TPP Phase-I

**Prayagraj Power Generation
Company Ltd. (17.10.2022)**

Prayagraj TPP

APCPL (25.02.2022)

INDIRA GANDHI STPP

Pending submissions

GVK Power Ltd.

GOINDWAL SAHIB

NTPC

DADRI (NCTPP)

Talwandi Sabo Power Ltd.

TALWANDI SABO TPP

L&T Power Development Ltd.

Nabha TPP (Rajpura TPP)

Target Dates for FGD Commissioning (Utility-wise)

| | |
|-------------------------|--|
| Adani Power Ltd. | KAWAI TPS U#1 (Target: 31-12-2024), KAWAI TPS U#2 (Target: 31-12-2024) |
| APCPL | INDIRA GANDHI STPP U#1 (Target: 31-01-2022), INDIRA GANDHI STPP U#2 (Target: 30-09-2023), INDIRA GANDHI STPP U#3 (Target: 30-06-2023) |
| GVK Power Ltd. | GOINDWAL SAHIB U#1 (Target: 30-04-2020), GOINDWAL SAHIB U#2 (Target: 29-02-2020) |
| HGPCL | PANIPAT TPS U#6 (Target: 31-12-2022), PANIPAT TPS U#7 (Target: 31-12-2022), PANIPAT TPS U#8 (Target: 31-12-2022), RAJIV GANDHI TPS U#1 (Target: 31-12-2024), RAJIV GANDHI TPS U#2 (Target: 31-12-2024), YAMUNA NAGAR TPS U#1 (Target: 31-12-2024), YAMUNA NAGAR TPS U#2 (Target: 31-12-2024) |

NTPC

DADRI (NCTPP) U#1 (Target: 31-12-2020), DADRI (NCTPP) U#2 (Target: 31-10-2020), DADRI (NCTPP) U#3 (Target: 31-08-2020), DADRI (NCTPP) U#4 (Target: 30-06-2020), DADRI (NCTPP) U#5 (Target: 30-06-2022), DADRI (NCTPP) U#6 (Target: 31-03-2023), RIHAND STPS U#1 (Target: 31-10-2025), RIHAND STPS U#2 (Target: 30-06-2026), RIHAND STPS U#3 (Target: 31-12-2024), RIHAND STPS U#4 (Target: 31-03-2025), RIHAND STPS U#5 (Target: 30-06-2025), RIHAND STPS U#6 (Target: 31-10-2025), SINGRAULI STPS U#1 (Target: 31-12-2024), SINGRAULI STPS U#2 (Target: 31-12-2024), SINGRAULI STPS U#3 (Target: 31-12-2024), SINGRAULI STPS U#4 (Target: 31-12-2024), SINGRAULI STPS U#5 (Target: 31-03-2025), SINGRAULI STPS U#6 (Target: 31-06-2024), SINGRAULI STPS U#7 (Target: 31-03-2024), UNCHAHAR TPS U#1 (Target: 31-12-2023), UNCHAHAR TPS U#2 (Target: 31-12-2023), UNCHAHAR TPS U#3 (Target: 30-09-2023), UNCHAHAR TPS U#4 (Target: 30-09-2023), UNCHAHAR TPS U#5 (Target: 30-09-2023), UNCHAHAR TPS U#6 (Target: 31-08-2022), MEJA Stage-I U#1 (Target: 31-10-2023), MEJA Stage-I U#2 (Target: 30-06-2023), TANDA Stage-I U#3 (Target:), TANDA Stage-I U#4 (Target:), TANDA Stage-II U#3 (Target: 31-03-2023), TANDA Stage-II U#4 (Target: 30-09-2023)

| | |
|--|--|
| L&T Power Development Ltd (Nabha) | Nabha TPP (Rajpura TPP) U#1 (Target: 30-04-2021), Nabha TPP (Rajpura TPP) U#2 (Target: 28-02-2021) |
| Lalitpur Power Gen. Company Ltd. | LALITPUR TPS U#1 (Target: 31-12-2026), LALITPUR TPS U#2 (Target: 30-09-2026), LALITPUR TPS U#3 (Target: 30-06-2026) |
| Lanco Anpara Power Ltd. | ANPARA C TPS U#1 (Target: 31-12-2023), ANPARA C TPS U#2 (Target: 31-12-2023) |
| Prayagraj Power Generation Company Ltd. | PRAYAGRAJ TPP U#1 (Target: 31-12-2024), PRAYAGRAJ TPP U#2 (Target: 31-12-2024), PRAYAGRAJ TPP U#3 (Target: 31-12-2024) |
| PSPCL | GH TPS (LEH.MOH.) U#1 (Target: 31-12-2026), GH TPS (LEH.MOH.) U#2 (Target: 31-12-2026), GH TPS (LEH.MOH.) U#3 (Target: 31-12-2026), GH TPS (LEH.MOH.) U#4 (Target: 31-12-2026), GGSSTP, Ropar U#3 (Target: 31-12-2026), GGSSTP, Ropar U#4 (Target: 31-12-2026), GGSSTP, Ropar U#5 (Target: 31-12-2026), GGSSTP, Ropar U#6 (Target: 30-12-2026) |

| | |
|----------------------------------|---|
| Rosa Power Supply Company | ROSA TPP Ph-I U#1 (Target: 31-12-2026), ROSA TPP Ph-I U#2 (Target: 31-12-2026), ROSA TPP Ph-I U#3 (Target: 31-12-2026), ROSA TPP Ph-I U#4 (Target: 31-12-2026) |
| RRVUNL | KOTA TPS U#5 (Target: 31-08-2024), KOTA TPS U#6 (Target: 31-08-2024), KOTA TPS U#7 (Target: 31-08-2024), SURATGARH TPS U#1 (Target: 31-12-2026), SURATGARH TPS U#2 (Target: 31-12-2026), SURATGARH TPS U#3 (Target: 31-12-2026), SURATGARH TPS U#4 (Target: 31-12-2026), SURATGARH TPS U#5 (Target: 31-12-2026), SURATGARH TPS U#6 (Target: 31-12-2026), SURATGARH SCTPS U#7 (Target: 28-02-2025), SURATGARH SCTPS U#8 (Target: 28-02-2025), CHHABRA TPP U#1 (Target: 31-12-2026), CHHABRA TPP U#2 (Target: 31-12-2026), CHHABRA TPP U#3 (Target: 31-12-2026), CHHABRA TPP U#4 (Target: 31-12-2026), CHHABRA SCPP U#5 (Target: 28-02-2025), CHHABRA SCPP U#6 (Target: 28-02-2025), KALISINDH TPS U#1 (Target: 28-02-2025), KALISINDH TPS U#2 (Target: 28-02-2025) |
| Talwandi Sabo Power Ltd. | TALWANDI SABO TPP U#1 (Target: 28-02-2021), TALWANDI SABO TPP U#2 (Target: 31-12-2020), TALWANDI SABO TPP U#3 (Target: 31-10-2020) |
| UPRVUNL | ANPARA TPS U#1 (Target: 31-12-2023), ANPARA TPS U#2 (Target: 31-12-2023), ANPARA TPS U#3 (Target: 31-12-2023), ANPARA TPS U#4 (Target: 31-12-2023), ANPARA TPS U#5 (Target: 31-12-2023), ANPARA TPS U#6 (Target: 31-12-2023), ANPARA TPS U#7 (Target: 31-12-2023), HARDUAGANJ TPS U#8 (Target: 31-12-2024), HARDUAGANJ TPS U#9 (Target: 31-12-2024), OBRA TPS U#9 (Target: 31-12-2024), OBRA TPS U#10 (Target: 31-12-2024), OBRA TPS U#11 (Target: 31-12-2024), OBRA TPS U#12 (Target: 31-12-2024), OBRA TPS U#13 (Target: 31-12-2024), PARICHHA TPS U#3 (Target: 30-04-2022), PARICHHA TPS U#4 (Target: 31-12-2024), PARICHHA TPS U#5 (Target: 31-12-2024), PARICHHA TPS U#6 (Target: 31-12-2024) |

उत्तर प्रदेश राज्य मार प्रषण कन्द्र

उ०प्र०पॉवर ट्रांसमिशन कारपोरेशन लि०
(उत्तर प्रदेश सरकार का उपक्रम)
यू०पी०एस०एल०डी०सी० परिसर, विभूति खण्ड- II
गोमती नगर, लखनऊ-226010
ई-मेल : cepso@upsldc.org
sera@upsldc.org



U.P. State Load Despatch Centre

U.P. Power Transmission Corporation Ltd.
(A U.P. Govt. Undertaking)
UPSLDC Complex, Vibhuti Khand – II
Gomti Nagar, Lucknow- 226010
E-mail: cepso@upsldc.org
sera@upsldc.org

No: - 2063 /SE(R&A)/EE-II/SPS

Dated: - 16/05/2023

Member Secretary, NRPC,
18 – A, SJSS Marg, Katwaria Sarai,
New Delhi, 110016.

Subject - Regarding revision of System Protection Scheme (SPS) at Bara TPS.

It is to inform you that 1500MVA, 765/400kV ICT-II has been commissioned on 31.03.2023 at Bara TPS. Following the commissioning of aforementioned ICT, SPS installed at Bara TPS needs to be revised. Discussion on revised SPS scheme at Bara TPS was held in 206th OCC meeting of NRPC and the special meeting held on subject issue on dated 12.05.2023. Based on discussion in the aforesaid meetings the revised logic has been finalized by UPSLDC which is enclosed herewith.

It is requested to kindly include this proposal as agenda in 207th OCC meeting of NRPC so that the same may be discussed and approved.

Encl: - As above

(Signature)
16/5

Arshad Jamal Siddiqui
Superintending Engineer (R&A)

No: - 2063 /SE(R&A)/EE-II/SPS

Dated: - 16/05/2023

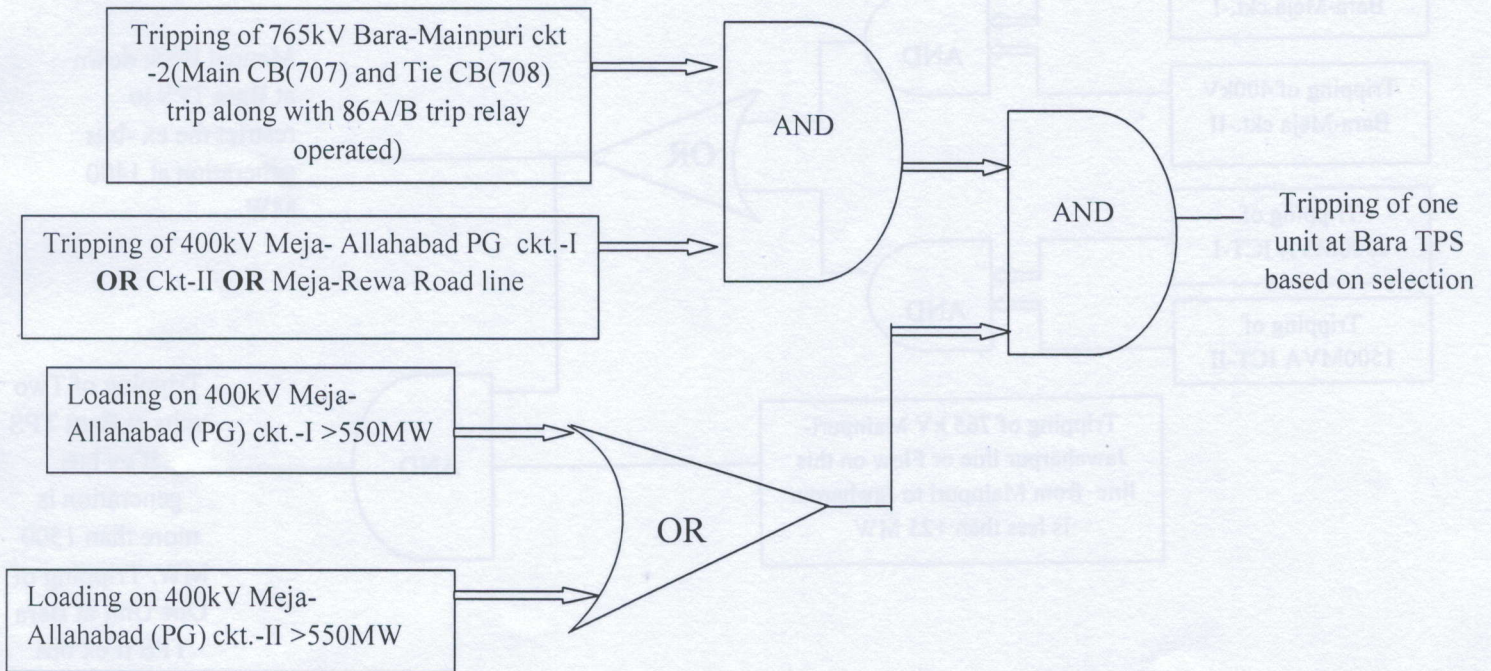
Copy forwarded to following for kind information and necessary action:-

1. Director, UPSLDC, Vibhuti Khand – II, Gomti Nagar, Lucknow.
2. Director (Operation), UPPTCL, 11th Floor, Shakti Bhawan Extn., Lucknow.
3. Chief Engineer (PSO), UPSLDC Vibhuti Khand – II, Gomti Nagar, Lucknow.
4. General Manager, NRLDC18-A, SJSS Marg, Katwaria Sarai, New Delhi – 110016.
5. President, M/s Prayag Raj Thermal Power Plant, Village-Khansemra, PO-Lohgara, Tehsil-Bara, Distt-Allahabad 212107.

(Arshad Jamal Siddiqui)
Superintending Engineer (R&A)

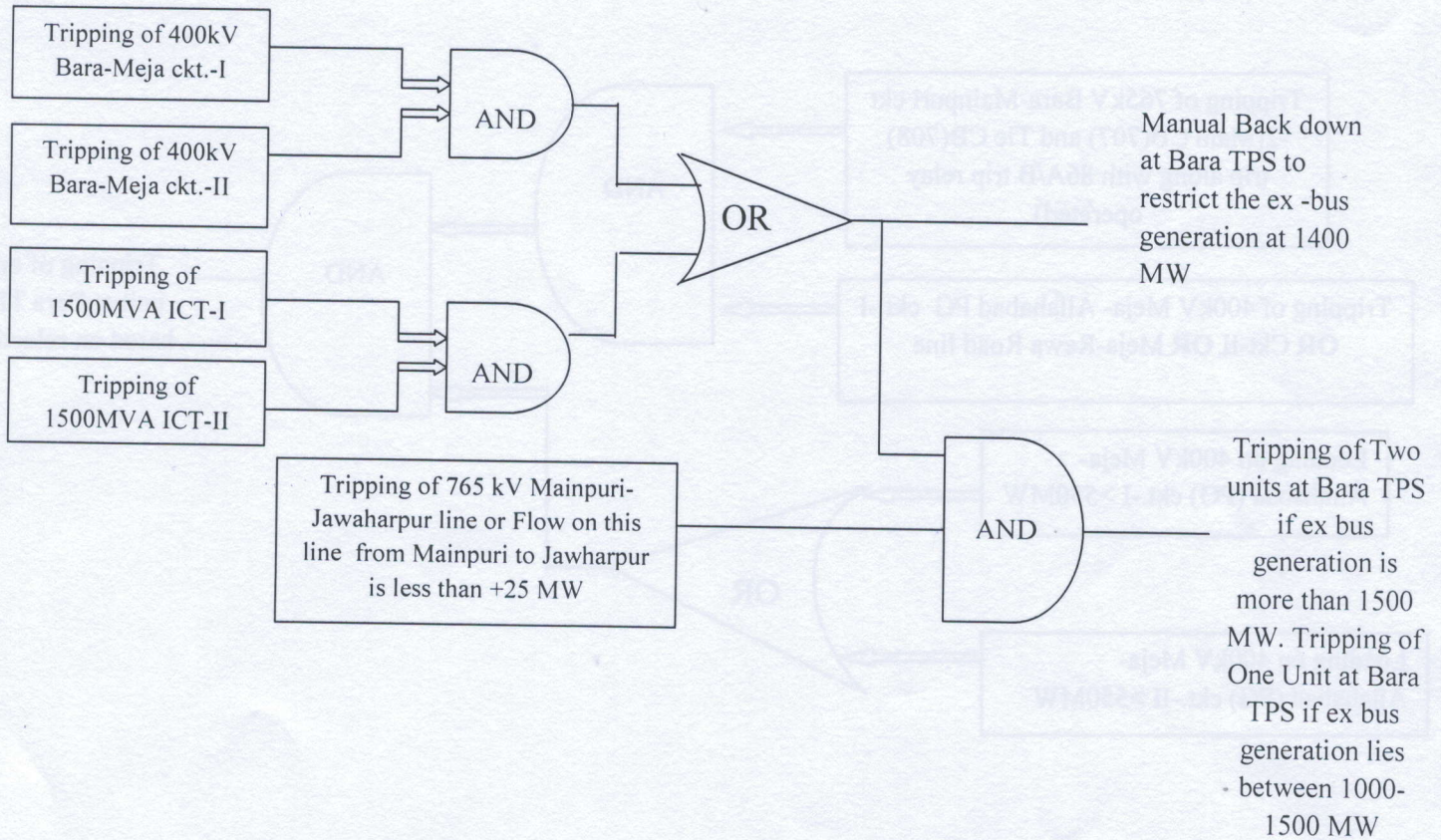
Revised logic for SPS at Bara TPS

Logic-1



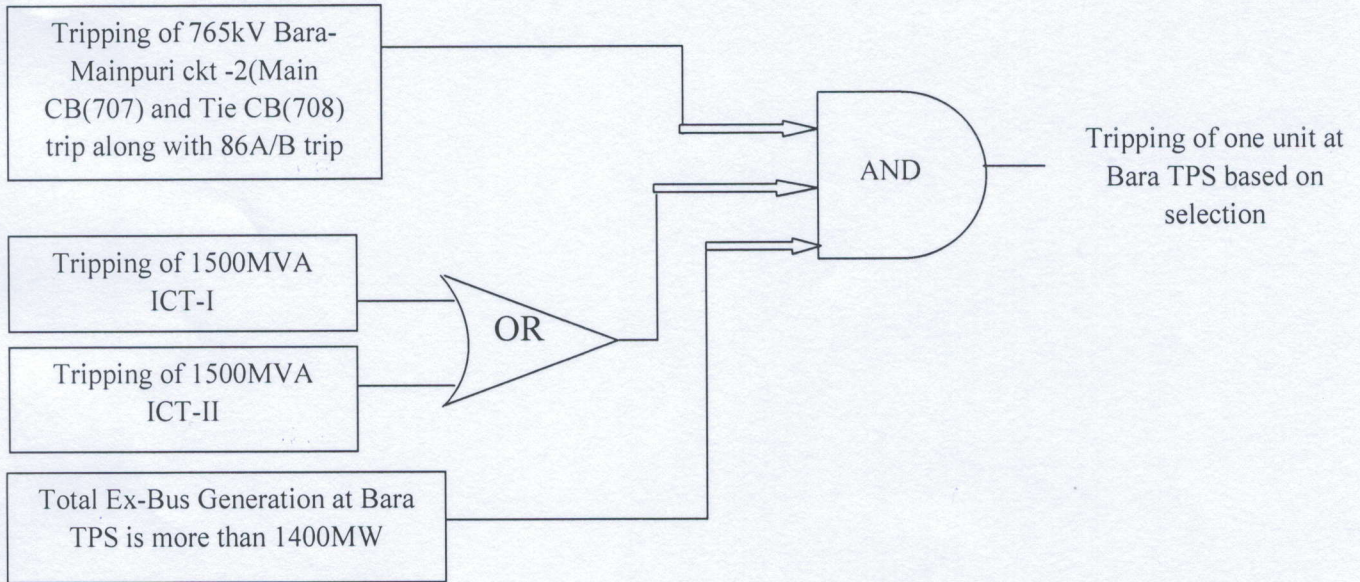
Note- To avoid the loading on 400kV Meja- Allahabad PG ckt.-I &II to go beyond 650 MW following the tripping of 765 kV Bara-Mainpuri Ckt -II ,as a Standard Operating Procedure, control room operator shall take action to bring down generation at Bara TPS to restrict the loading on 400kV Meja- Allahabad PG ckt.- I &II below 550 MW

Logic-2



Note- As a SOP, Bara TPS shall ensure that selection of Unit for tripping is done in such a way that Unit with highest generation gets tripped.

Logic-3



Agenda by APCPL-IGSTPS JHAJJAR for 207th OCC meeting

Regarding bringing of APCPL-IGSTPS Jhajjar Unit-1 from RSD following Transmission Constraint

- APCPL IGSTPS-Jhajjar is having 3 units of 500 MW and 4 transmission lines of 400 KV, namely Jhajjar-Mundka circuit 1& 2 & Jhajjar Daulatabad Circuit 1& 2 for evacuation of power.
- 400 KV Jhajjar-Mundka are ISTS lines owned and maintained by APCPL, IGSTPS-Jhajjar
- 400 KV Jhajjar-Daulatabad Circuits are owned & maintained by HVNL and are dedicated Transmission Lines for evacuation of Haryana's Share from the station.
- Jhajjar-Daulatabad Circuit 1 & 2 are not available since 08-05-2023.
- Currently, two machines are on bar as per request of beneficiaries, Unit-1 is under RDS since 01-05-2023.
- On 10-05-2023, Haryana requested NRLDC for full schedule from APCPL Jhajjar vide email dated 10-05-2023, NRLDC vide email dated 10-05-2023 replied

"kindly revive the Jhajjar-Daulatabad Circuit 1 & 2 as early as possible for running of all 03units at NTPC, Jhajjar. Without revival of Jhajjar-Daulatabad lines only 02 Units can be run at NTPC, Jhajjar. Kindly expedite the restoration of lines as early as possible"

- NRLDC vide email dated 10-05-2023 has asked APCPL Jhajjar

"to back down the generation suitably for safe evacuation of power form Jhajjar stating that 400kV Jhajjar-Daulatabad-1 & 2 are under forced outage due to tower bend which is expected to be revived around 25th May. Currently, Jhajjar is evacuating power through 400kV Jhajjar – Mundka-1 & 2 with thermal limit of 852MW each circuit."

- NLDC vide email dated 17-05-2023 has asked NRLDC to bring Jhajjar third unit (which is under RSD) on bar stating dry weather and increasing demand in days to come.
- NRLDC vide email dated 17-05-2023 has asked APCPL-Jhajjar beneficiaries to review their power portfolio and arrange to bring on-bar units closed under RSD (Jhajjar Unit-1 500 MW).
- APCPL vide email dated 17-05-2023 has requested its beneficiaries not to schedule power from third machine owing to Transmission constraint and raising safety concern.

"we would like to submit that out of 4 Transmission Lines, 2 Transmission lines namely Jhajjar-Daulatabad Circuit 1 & 2 (both owned by HVPNL) are not available since 08-05-2023.

At present, even with two units running at full load, there is already a risk of station failure if any of the transmission line trips. Bringing 3rd unit on the bar and evacuating

1500 MW from the available 2 transmission lines further increases the risk of the station outage as the probability of transmission lines failure with increased loading will be much more. This is a major safety concern for our station.

In addition to this, running three units with 2 transmission lines is not in line with (n-1) criteria.

Similar incident happened on 20-12-2022, wherein all three units were on bar and 3 transmission lines were in service. Subsequent to tripping of Jhajjar-Daulatabad Line-1 & 2 resulted in shifting of the entire station load of 1400 MW on single line, which led to failure of transmission element due to thermal overloading and caused Station Blackout.

Instant tripping of all three machines at full load is a matter of concern as it may pose a serious threat to the safety of the machines. In addition to this, any damage in the machine may lead to prolonged outage.

Therefore, considering the above circumstances, we request your good office not to schedule power from our third machine till Jhajjar-Daulatabad Lines are made available by HVPNL”

- APCPL vide email dated 17-05-2023 has requested NLDC not to bring third machine on bar on account of RRAS stating the transmission constraint.
- NLDC vide email dated 17-05-2023 replied that

“Thank you very much for flagging your concerned. But as it is already mentioned in the trailing e-mail that All India demand will further increase keeping in view the dry spell in coming days. It is important to maximise generation where ever possible. So keeping in view all these aspect and after analysing all the network status around the generating plant of Jhajjar, NRLDC & NLDC had requested to bring the unit-1 at Jhajjar.

Hence it is kindly requested to bring the unit-1, as per the trailing email. If plant fails to bring the unit, then accordingly plant has to revise the DC.

NRLDC requested to monitor the same i.e. to bringing of unit-1 at Jhajjar and revision of DC if plant fail to bring the unit.

Matter is to be taken on priority basis, as it is very critical and important.”

- Following the email from NLDC, NRLDC asked APCPL to bring the unit on bar as Haryana and Delhi has consented for the same.
- Thereafter, APCPL submitted the following

“With reference to your email, we would like to reiterate that our third machine is available to be brought on the bar. However, due to transmission constraint owing to non-availability of Jhajjar-Daulatabad circuit 1 & 2 (owned by HVPNL) bringing third machine on the bar and running on full load is a safety concern.

Non availability of dedicated transmission line for evacuation of Haryana' share from our station may not be the reason for reduction of our DC.

It is our humble request to kindly reconsider your decision and take necessary action as deemed fit.”

- NLDC vide email dated 18-05-2023 has again asked APCPL to bring the machine stating the following:

“It is to bring to your kind notice that after analysing transmission network status around the generating plant of Jhajjar, NLDC and NRLDC has requested to bring the unit-1 at Jhajjar.

The same has been reiterated in our trailing communications.

NRLDC requested to monitor the same i.e. to bringing of unit-1 at Jhajjar and revision of DC if plant fail to bring the unit.

In case of deficit in technical minimum schedule, RRAS support will be provided by NLDC.

Matter is to be taken on priority basis, as it is very critical and important.”

- APCPL again requested NRLDC vide email dated 18-05-2023 stating the following:

“With reference to your advisory dated 10-05-2023 which is as follows:

Quote

400kV Jhajjar-Daulatabad-1 & 2 are under forced outage due to tower bend which is expected to be revived around 25th May. Currently, Jhajjar is evacuating power through 400kV Jhajjar-Mundka-1 & 2 with thermal limit of 852 MW each circuit. In case of tripping of any of the circuit, you are requested to back down the generation suitably for safe evacuation of power from Jhajjar.

Unquote

Further, reference is requested to your email dated 10-05-2023 wherein you asked Haryana to revive the Jhajjar-Daulatabad Circuit 1 & 2 as early as possible for running of all 03 units at NTPC, Jhajjar. Without revival of Jhajjar-Daulatabad lines only 02 Units can be run at NTPC, Jhajjar. Kindly expedite the restoration of lines as early as possible.

Now, without revival of Jhajjar-Daulatabad Transmission circuits, we are being insisted to run the third machine which is not desirable and safe considering (n-1) compliance.

Running three machines in this condition may lead to station blackout and may endanger our machines and the transmission element. This may result in prolonged outage of units and Thermal runaway of the Transmission line. In case of any mishap with both available Jhajjar-Mundka lines, station won't be able to get backup power for a considerable period of time for restoration.

Bringing third unit with load restriction of 1200 MW on two available transmission lines is not safe as we won't be able to back down upto safe evacuation limit of 850 MW in case (n-1) condition arises, which may pose a serious safety concern for non-stakeholder entities along the span of Jhajjar-Mundka Transmission lines.

In case of any untoward incident arising thereof APCPL-IGSTPS Jhajjar will not be held responsible.

In view of the above, it is once again requested to kindly review your decision and intimate whether to bring the machine or not.”

Despite several request and stating safety concern, we are being urged to bring the third machine on bar (correspondence attached as Annexure-I).

In view of the above, we hereby request the OCC forum to deliberate on the issue.



amit hooda <amit.hooda01@gmail.com>

Fwd: Regarding safe evacuation of power generation at Jhajjar s/s

Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>
To: amit hooda <amit.hooda01@gmail.com>

Mon, May 15, 2023 at 5:14 PM

----- Forwarded message -----

From: **NRLDC SO** <nrlcdso@grid-india.in>

Date: Wed, May 10, 2023 at 11:40 PM

Subject: Regarding safe evacuation of power generation at Jhajjar s/s

To: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Cc: nrlcd_hods_tech <nrlcd_hods_tech@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>, Haryana <slidcharyanacr@gmail.com>, DTL WEB (dtlscheduling@gmail.com) <dtlscheduling@gmail.com>, dtldata@gmail.com <dtldata@gmail.com>

Sir,

400kV Jhajjar-Daulatabad-1 & 2 are under forced outage due to tower bend which is expected to be revived around 25th May. Currently, Jhajjar is evacuating power through 400kV Jhajjar – Mundka-1 & 2 with thermal limit of 852MW each circuit. In case of tripping of any of the circuit, you are requested to back down the generation suitably for safe evacuation of power from Jhajjar.

Thanks & Regards,**Shift-in-Charge****Grid Controller of India Ltd.(Grid-India)****Northern Regional Load Despatch Centre****18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016****Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373**

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--
SCE,
IGSTPP Jhajjar.



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Regarding full Haryana share from NTPC,Jhajjar.

Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Wed, May 10, 2023 at 2:10 PM

To: amit hooda <amit.hooda01@gmail.com>, Prashant Jain <prashantjain@ntpc.co.in>

Cc: Sanjay Asati <sanjayasati@ntpc.co.in>, GM L D Sahoo Sir <ldsahoo01@ntpc.co.in>, Abhishek Jain अभिषेक जैन <abhishekjain@ntpc.co.in>

----- Forwarded message -----

From: **NRLDC SO** <nrldcso@grid-india.in>

Date: Wed, May 10, 2023 at 2:06 PM

Subject: RE: FW: Regarding full Haryana share from NTPC,Jhajjar.

To: XEN/ PC <sldcharyanacr@gmail.com>

Cc: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, nrldc_hods_tech <nrldc_hods_tech@grid-india.in>, NRLDC Outage <nrldcoutage@grid-india.in>

Sir,

With ref. to trailing mail, kindly revive the Jhajjar-Daulatabad Circuit 1 & 2 as early as possible for running of all 03 units at NTPC, Jhajjar.

Without revival of Jhajjar-Daulatabad lines only 02 Units can be run at NTPC, Jhajjar.

Kindly expedite the restoration of lines as early as possible.

Thanks & Regards,**Shift-in-Charge****Grid Controller of India Ltd.(Grid-India)****Northern Regional Load Despatch Centre****18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016****Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373**

From: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>**Sent:** 10 May 2023 09:00**To:** NRLDC SO <nrldcso@grid-india.in>**Cc:** XEN LD&PC Panipat <sldcharyanacr@gmail.com>; ucrpanchkula <ucrpanchkula@uhbvn.org.in>; Sanjay Asati <sanjayasati@ntpc.co.in>; GM L D Sahoo Sir <ldsahoo01@ntpc.co.in>; Abhishek Jain अभिषेक जैन <abhishekjain@ntpc.co.in>**Subject:** Re: FW: Regarding full Haryana share from NTPC,Jhajjar.

****Warning****

[Quoted text hidden]

5/18/23, 11:20 AM

Gmail - Fwd: FW: Regarding full Haryana share from NTPC, Jhajjar.

[Quoted text hidden]

[Quoted text hidden]

--
SCE,
IGSTPP Jhajjar.



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Regarding full Haryana share from NTPC,Jhajjar.

Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Wed, May 10, 2023 at 7:22 AM

To: Prashant Jain <prashantjain@ntpc.co.in>, amit hooda <amit.hooda01@gmail.com>

Cc: Sanjay Asati <sanjayasati@ntpc.co.in>, GM L D Sahoo Sir <ldsahoo01@ntpc.co.in>, Eemg Apcpl <eemg.apcpl@gmail.com>

----- Forwarded message -----

From: **NRLDC SO** <nrlcdso@grid-india.in>

Date: Wed, May 10, 2023 at 7:14 AM

Subject: FW: Regarding full Haryana share from NTPC,Jhajjar.

To: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Sir,

For your consent & also provide the expected time of revival in reply

Thanks & Regards,**Grid Controller of India Ltd.****(Grid-India)****Northern Regional Load Despatch Center****18-A, Saheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016****Ph. : 011-26519406, Hot Line: 20112151/52, M. - 08448167373**

From: XEN/ PC <sldcharyanacr@gmail.com>**Sent:** 10 May 2023 06:39**To:** NRLDC SO <nrlcdso@grid-india.in>; NRLDC Power Grid <nrlcdso@gmail.com>; NRLDC Scheduling <nrlcdscheduling@grid-india.in>; Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>; igstpp.jhajjar.sce@gmail.com**Subject:** Fwd: Regarding full Haryana share from NTPC,Jhajjar.******Warning********This email has not originated from Grid-India. Do not click on attachment or links unless sender is reliable. Malware/ Viruses can be easily transmitted via email.**

Sir,

Please see the trailing mail and submit the reply please.

----- Forwarded message -----

From: **ucrpanchkula** <ucrpanchkula@uhbvn.org.in>

Date: Wed, 10 May 2023 at 06:37
Subject: Regarding full Haryana share from NTPC,Jhajjar.
To: XEN/LD&PC <sldcharyanacr@gmail.com>
Cc: Ce Hppc <Cehppc@uhbvn.org.in>

Sir

In view new MOD Haryana want to schedule its full share i.e. 660 MW from NTPC Jhajjar from 18:00 Hrs. but 400 KV JHAJJAR(APCL)-DAULATABAD(HV) CKT-1 & 2 was out, if we give full schedule of 660 MW please confirm that full schedule to Haryana is possible or not.

Regards

SE/ SO,UHBVN

Panchkula

--

Regards,

SCE (पाली प्रभारी अभियंता)

SLDC Control room

HVPNL Panipat

Contact No- 9053090722/9053090721

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--
SCE,
IGSTPP Jhajjar.



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Wed, May 17, 2023 at 5:34 PM

To: Prashant Jain <prashantjain@ntpc.co.in>, amit hooda <amit.hooda01@gmail.com>

----- Forwarded message -----

From: **NRLDC SO** <nrlcdso@grid-india.in>

Date: Wed, May 17, 2023 at 5:16 PM

Subject: FW: Bringing units out on RSD on bar_ Important

To: Haryana <sldcharyanacr@gmail.com>, dtldata@gmail.com <dtldata@gmail.com>, DTL WEB

(dtlscheduling@gmail.com) <dtlscheduling@gmail.com>, system.uppcl@gmail.com <system.uppcl@gmail.com>, JK

SLDC <jksldc1@gmail.com>, apc_chandigarh@hotmail.com <apc_chandigarh@hotmail.com>, Sr.Xen P.C., Patiala

SLDC Operations <pc-sldcop@pstcl.org>, Uttarakhand <sldc1@rediffmail.com>, cecnsjmu@gmail.com

<cecnsjmu@gmail.com>, dtldata@yahoo.co.in <dtldata@yahoo.co.in>, ldrvpln@gmail.com <ldrvpln@gmail.com>,

ldshutdown@gmail.com <ldshutdown@gmail.com>, pcpsseb@gmail.com <pcpsseb@gmail.com>,

pcshimla2003@gmail.com <pcshimla2003@gmail.com>

Cc: R K Porwal (आर के पोरवाल) <rk.porwal@grid-india.in>, Somara Lakra (सोमारा लाकरा) <somara.lakra@grid-india.in>,

nrlcd_hods_tech <nrlcd_hods_tech@grid-india.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, WRLDC Control

Room <wrldccr@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>, NLDC Control Room (एन.एल.डी.सी.

कंट्रोल रूम) <nldccr@grid-india.in>

Sir/Ma'am,

Please refer the trailing e-mail.

You are requested to review your power portfolio and arrange to bring on-bar units closed under RSD {Jhajjar(U#1,500 MW)}.

Thanks & Regards,

Shift-in-Charge

Grid Controller of India Ltd.(Grid-India)

Northern Regional Load Despatch Centre

18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373

From: NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>

Sent: 17 May 2023 15:35

To: NRLDC SO <nrlcdso@grid-india.in>; WRLDC Control Room <wrldccr@grid-india.in>

Cc: Surajit Banerjee (सुरजीत बनर्जी) <surajit.banerjee@grid-india.in>; Ashok Kumar (अशोक कुमार) <ashokkr@grid-india.in>;

Vivek Pandey (विवेक पांडे) <vivek.pandey@grid-india.in>; Alok Kumar (आलोक कुमार) <alok.kumar@grid-india.in>; Mahavir

Prasad Singh (महावीर प्रसाद सिंह) <mahavir@grid-india.in>; Pushpa S (पुष्पा एस) <pushpa@grid-india.in>

Subject: Bringing units out on RSD on bar_ Important

Sir,

All India demand is in rising trend and today all India maximum demand touched 220 GW. Considering the coming dry weather, which may further increase the demand in coming days; you are requested to kindly bring Jhajjar(U#1,500 MW), Gadarwara(U#1,800 MW) on bar from RSD through requisition of their beneficiaries.

Regards,

Shift Incharge

National Load Dispatch Center

Grid Controller of India Limited

(Formerly Power System Operation Corporation)

Government of India Enterprise

B-9 Qutub Institutional Area

Katwaria Sarai , New Delhi -110016

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--

SCE,
IGSTPP Jhajjar.



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important**NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)** <nldccr@grid-india.in>

Wed, May 17, 2023 at 10:56 PM

To: amit hooda <amit.hooda01@gmail.com>

Cc: "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिसंकर चिलुकूरि)" <pchilukuri@grid-india.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, NRLDC SO <nrlcso@grid-india.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "Alok Kumar (अलोक कुमार)" <alok.kumar@grid-india.in>

Sir,

Thank you very much for flagging your concerned. But as it is already mentioned in the trailing e-mail that All India demand will further increase keeping in view the dry spell in coming days. It is important to maximise generation where ever possible. So keeping in view all these aspect and after analysing all the network status around the generating plant of Jhajjar, NRLDC & NLDC had requested to bring the unit-1 at Jhajjar.

Hence it is kindly requested to bring the unit-1, as per the trailing email. If plant fails to bring the unit, then accordingly plant has to revise the DC.

NRLDC requested to monitor the same i.e. to bringing of unit-1 at Jhajjar and revision of DC if plant fail to bring the unit.

Matter is to be taken on priority basis, as it is very critical and important.

Thanks and regards,

SCE, NLDC

From: amit hooda <amit.hooda01@gmail.com>**Sent:** 17 May 2023 21:42**To:** NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>**Cc:** Ashok Kumar (अशोक कुमार) <ashokkr@grid-india.in>; Vivek Pandey (विवेक पांडे) <vivek.pandey@grid-india.in>; Phanisankar Chilukuri (फणिसंकर चिलुकूरि) <pchilukuri@grid-india.in>; Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>; Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>; Sanjay Asati <sanjayasati@ntpc.co.in>; Prashant Jain <prashantjain@ntpc.co.in>; Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>; B S RAO <SRBODANKI@ntpc.co.in>**Subject:** Fwd: FW: Bringing units out on RSD on bar_ Important******Warning******

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--

SCE,

IGSTPP Jhajjar.

[Quoted text hidden]



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

amit hooda <amit.hooda01@gmail.com>

Wed, May 17, 2023 at 7:32 PM

To: "Power Manager (PSC)" <Power.Manager@tatapower-ddl.com>, XEN LD&PC Panipat <slidcharyanacr@gmail.com>, ucrpanchkula <ucrpanchkula@uhbvn.org.in>, dtldata@gmail.com

Cc: Ce Hppc <Cehppc@uhbvn.org.in>, Sandeep Kumar <sandeep.k@tatapower-ddl.com>, mehra.deepak@tatapower-ddl.com, Lalit Wasan <lalit.wasan@tatapower-ddl.com>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, nrldcso@grid-india.in, Prashant Jain <prashantjain@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, "Somara Lakra (सोमारा लाकरा)" <somara.lakra@posoco.in>

Dear Sir,

This has reference to the trailing mail from NRLDC regarding bringing of APCPL-IGSTPS Jhajjar Unit-1 on bar.

In this regard, we would like to submit that out of 4 Transmission Lines, 2 Transmission lines namely Jhajjar-Daulatabad Circuit 1 & 2 (both owned by HVPNL) are not available since 08-05-2023.

At present, even with two units running at full load, there is already a risk of station failure if any of the transmission line trips. Bringing 3rd unit on the bar and evacuating 1500 MW from the available 2 transmission lines further increases the risk of the station outage as the probability of transmission lines failure with increased loading will be much more. This is a major safety concern for our station.

In addition to this, running three units with 2 transmission lines is not in line with (n-1) criteria.

Similar incident happened on 20-12-2022, wherein all three units were on bar and 3 transmission lines were in service. Subsequent to tripping of Jhajjar-Daulatabad Line-1 & 2 resulted in shifting of the entire station load of 1400 MW on single line, which led to failure of transmission element due to thermal overloading and caused **Station Blackout**.

Instant tripping of all three machines at full load is a matter of concern as it may pose a serious threat to the safety of the machines. In addition to this, any damage in the machine may lead to prolonged outage.

Therefore, considering the above circumstances, we request your good office not to schedule power from our third machine till Jhajjar-Daulatabad Lines are made available by HVPNL.

With Regards

AMIT HOODA

Senior Manager (EEMG-Commercial)

APCPL-IGSTPS Jhajjar

Ph. +91-9416212595

01251-266567

----- Forwarded message -----

From: **Igstpp Jhajjar** <igstpp.jhajjar.sce@gmail.com>

Date: Wed, May 17, 2023 at 5:33 PM

Subject: Fwd: FW: Bringing units out on RSD on bar_ Important

To: Prashant Jain <prashantjain@ntpc.co.in>, amit hooda <amit.hooda01@gmail.com>

[Quoted text hidden]



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

amit hooda <amit.hooda01@gmail.com>

Wed, May 17, 2023 at 9:41 PM

To: nldccr@grid-india.in

Cc: ashokkr@grid-india.in, vivek.pandey@grid-india.in, "Phanisankar Chilukuri (फणिशंकर चिलुकुरि)" <pchilukuri@posoco.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>

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Therefore, considering the above circumstances, we request your good office not to bring our third machine on bar on account of RRAS till Jhajjar-Daulatabad Lines are made available by HVPNL.

With Regards

AMIT HOODA

Senior Manager (EEMG-Commercial)

APCPL-IGSTPS Jhajjar

Ph. +91-9416212595

01251-266567

----- Forwarded message -----

From: amit hooda <amit.hooda01@gmail.com>

Date: Wed, May 17, 2023 at 8:05 PM

Subject: Fwd: FW: Bringing units out on RSD on bar_ Important

To: <nldccr@grid-india.in>

Cc: <ashokkr@grid-india.in>, <vivek.pandey@grid-india.in>, Phanisankar Chilukuri (फणिशंकर चिलुकुरि) <pchilukuri@posoco.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>

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With Regards
AMIT HOODA
Senior Manager (EEMG-Commercial)
APCPL-IGSTPS Jhajjar
Ph. +91-9416212595
01251-266567

----- Forwarded message -----

From: **Igstpp Jhajjar** <igstpp.jhajjar.sce@gmail.com>
Date: Wed, May 17, 2023 at 5:33 PM
Subject: Fwd: FW: Bringing units out on RSD on bar_ Important
To: Prashant Jain <prashantjain@ntpc.co.in>, amit hooda <amit.hooda01@gmail.com>

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From: **NRLDC SO** <nrlcdso@grid-india.in>
Date: Wed, May 17, 2023 at 5:16 PM
Subject: FW: Bringing units out on RSD on bar_ Important
To: Haryana <slcharyanacr@gmail.com>, dtldata@gmail.com <dtldata@gmail.com>, DTL WEB (dtlscheduling@gmail.com) <dtlscheduling@gmail.com>, system.uppcl@gmail.com <system.uppcl@gmail.com>, JK SLDC <jksldc1@gmail.com>, apc_chandigarh@hotmail.com <apc_chandigarh@hotmail.com>, Sr.Xen P.C., Patiala SLDC Operations <pc-sldcop@pstcl.org>, Uttarakhand <sldc1@rediffmail.com>, cecnsjmu@gmail.com <cecnsjmu@gmail.com>, dtldata@yahoo.co.in <dtldata@yahoo.co.in>, ldvrpnl@gmail.com <ldvrpnl@gmail.com>, ldshutdown@gmail.com <ldshutdown@gmail.com>, pcpsseb@gmail.com <pcpsseb@gmail.com>, pcshimla2003@gmail.com <pcshimla2003@gmail.com>
Cc: R K Porwal (आर के पोरवाल) <rk.porwal@grid-india.in>, Somara Lakra (सोमारा लाकरा) <somara.lakra@grid-india.in>, nrlcd_hods_tech <nrlcd_hods_tech@grid-india.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, WRLDC Control Room <wrldccr@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>, NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>

Sir/Ma'am,

Please refer the trailing e-mail.

You are requested to review your power portfolio and arrange to bring on-bar units closed under RSD {Jhajjar(U#1,500 MW)}.

Thanks & Regards,

Shift-in-Charge

Grid Controller of India Ltd.(Grid-India)

**Northern Regional Load Despatch Centre
18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016
Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373**

From: NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>
Sent: 17 May 2023 15:35
To: NRLDC SO <nrldcso@grid-india.in>; WRLDC Control Room <wrldccr@grid-india.in>
Cc: Surajit Banerjee (सुरजीत बनर्जी) <surajit.banerjee@grid-india.in>; Ashok Kumar (अशोक कुमार) <ashokkr@grid-india.in>; Vivek Pandey (विवेक पांडे) <vivek.pandey@grid-india.in>; Alok Kumar (आलोक कुमार) <alok.kumar@grid-india.in>; Mahavir Prasad Singh (महावीर प्रसाद सिंह) <mahavir@grid-india.in>; Pushpa S (पुष्पा एस) <pushpa@grid-india.in>
Subject: Bringing units out on RSD on bar_ Important

Sir,

All India demand is in rising trend and today all India maximum demand touched 220 GW. Considering the coming dry weather, which may further increase the demand in coming days; you are requested to kindly bring Jhajjar(U#1,500 MW), Gadarwara(U#1,800 MW) on bar from RSD through requisition of their beneficiaries.

Regards,

Shift Incharge

National Load Dispatch Center

Grid Controller of India Limited

(Formerly Power System Operation Corporation)

Government of India Enterprise

B-9 Qutub Institutional Area

Katwaria Sarai , New Delhi -110016

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SCE,

5/18/23, 11:12 AM

Gmail - Fwd: FW: Bringing units out on RSD on bar_ Important

IGSTPP Jhajar.



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

NRLDC SO <nrlldcso@grid-india.in>

Thu, May 18, 2023 at 12:39 AM

To: amit hooda <amit.hooda01@gmail.com>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Cc: "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिशंकर चिलुकूरि)" <pchilukuri@grid-india.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "Alok Kumar (आलोक कुमार)" <alok.kumar@grid-india.in>, "NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)" <nldccr@grid-india.in>

Sir,

Please refer trailing mail and take necessary action to bring Unit 1 on bar.(Delhi and Haryana has provided consent to take their share as per entitlement)

From: NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>**Sent:** 17 May 2023 22:56**To:** amit hooda <amit.hooda01@gmail.com>

Cc: Surajit Banerjee (सुरजीत बनर्जी) <surajit.banerjee@grid-india.in>; Ashok Kumar (अशोक कुमार) <ashokkr@grid-india.in>; Vivek Pandey (विवेक पांडे) <vivek.pandey@grid-india.in>; Phanisankar Chilukuri (फणिशंकर चिलुकूरि) <pchilukuri@grid-india.in>; Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>; Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>; Sanjay Asati <sanjayasati@ntpc.co.in>; Prashant Jain <prashantjain@ntpc.co.in>; Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>; B S RAO <SRBODANKI@ntpc.co.in>; NRLDC SO <nrlldcso@grid-india.in>; Mahavir Prasad Singh (महावीर प्रसाद सिंह) <mahavir@grid-india.in>; Alok Kumar (आलोक कुमार) <alok.kumar@grid-india.in>

Subject: RE: FW: Bringing units out on RSD on bar_ Important

Sir,

Thank you very much for flagging your concerned. But as it is already mentioned in the trailing e-mail that All India demand will further increase keeping in view the dry spell in coming days. It is important to maximise generation where ever possible. So keeping in view all these aspect and after analysing all the network status around the generating plant of Jhajjar, NRLDC & NLDC had requested to bring the unit-1 at Jhajjar.

Hence it is kindly requested to bring the unit-1, as per the trailing email. If plant fails to bring the unit, then accordingly plant has to revise the DC.

NRLDC requested to monitor the same i.e. to bringing of unit-1 at Jhajjar and revision of DC if plant fail to bring the unit.

Matter is to be taken on priority basis, as it is very critical and important.

Thanks and regards,

SCE, NLDC

From: amit hooda <amit.hooda01@gmail.com>

Sent: 17 May 2023 21:42

To: NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>

Cc: Ashok Kumar (अशोक कुमार) <ashokkr@grid-india.in>; Vivek Pandey (विवेक पांडे) <vivek.pandey@grid-india.in>; Phanisankar Chilukuri (फणिशंकर चिलुकूरि) <pchilukuri@grid-india.in>; Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>; Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>; Sanjay Asati <sanjayasati@ntpc.co.in>; Prashant Jain <prashantjain@ntpc.co.in>; Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>; B S RAO <SRBODANKI@ntpc.co.in>

Subject: Fwd: FW: Bringing units out on RSD on bar_ Important

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Dear Sir,

This has reference to the trailing mail from NRLDC regarding bringing of APCPL-IGSTPS Jhajjar Unit-1 on bar.

In this regard, we would like to submit that out of 4 Transmission Lines, 2 Transmission lines namely Jhajjar-Daulatabad Circuit 1 & 2 (both owned by HVPNL) are not available since 08-05-2023.

At present, even with two units running at full load, there is already a risk of station failure if any of the transmission line trips. Bringing 3rd unit on the bar and evacuating 1500 MW from the available 2 transmission lines further increases the risk of the station outage as the probability of transmission lines failure with increased loading will be much more. This is a major safety concern for our station.

In addition to this, running three units with 2 transmission lines is not in line with (n-1) criteria.

Similar incident happened on 20-12-2022, wherein all three units were on bar and 3 transmission lines were in service. Subsequent to tripping of Jhajjar-Daulatabad Line-1 & 2 resulted in shifting of the entire station load of 1400 MW on single line, which led to failure of transmission element due to thermal overloading and caused **Station Blackout**.

Instant tripping of all three machines at full load is a matter of concern as it may pose a serious threat to the safety of the machines. In addition to this, any damage in the machine may lead to prolonged outage.

Therefore, considering the above circumstances, we request your good office not to bring our third machine on bar on account of RRAS till Jhajjar-Daulatabad Lines are made available by HVPNL.

With Regards

AMIT HOODA

Senior Manager (EEMG-Commercial)

APCPL-IGSTPS Jhajjar

Ph. +91-9416212595

01251-266567

----- Forwarded message -----

From: amit hooda <amit.hooda01@gmail.com>

Date: Wed, May 17, 2023 at 8:05 PM

Subject: Fwd: FW: Bringing units out on RSD on bar_ Important

To: <nldccr@grid-india.in>

Cc: <ashokkr@grid-india.in>, <vivek.pandey@grid-india.in>, Phanisankar Chilukuri (फणिशंकर चिलुकूरि)

<pchilukuri@posoco.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>

Dear Sir,

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In this regard, we would like to submit that out of 4 Transmission Lines, 2 Transmission lines namely Jhajjar-Daulatabad Circuit 1 & 2 (both owned by HVPNL) are not available since 08-05-2023.

At present, even with two units running at full load, there is already a risk of station failure if any of the transmission line trips. Bringing 3rd unit on the bar and evacuating 1500 MW from the available 2 transmission lines further increases the risk of the station outage as the probability of transmission lines failure with increased loading will be much more. This is a major safety concern for our station.

In addition to this, running three units with 2 transmission lines is not in line with (n-1) criteria.

Similar incident happened on 20-12-2022, wherein all three units were on bar and 3 transmission lines were in service. Subsequent to tripping of Jhajjar-Daulatabad Line-1 & 2 resulted in shifting of the entire station load of 1400 MW on single line, which led to failure of transmission element due to thermal overloading and caused **Station Blackout**.

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Therefore, considering the above circumstances, we request your good office not to bring our third machine on bar on account of RRAS till Jhajjar-Daulatabad Lines are made available by HVPNL.

With Regards
AMIT HOODA
Senior Manager (EEMG-Commercial)
APCPL-IGSTPS Jhajjar
Ph. +91-9416212595
01251-266567

----- Forwarded message -----

From: **Igstpp Jhajjar** <igstpp.jhajjar.sce@gmail.com>
Date: Wed, May 17, 2023 at 5:33 PM
Subject: Fwd: FW: Bringing units out on RSD on bar_ Important
To: Prashant Jain <prashantjain@ntpc.co.in>, amit hooda <amit.hooda01@gmail.com>

----- Forwarded message -----

From: **NRLDC SO** <nrlcdso@grid-india.in>
Date: Wed, May 17, 2023 at 5:16 PM
Subject: FW: Bringing units out on RSD on bar_ Important
To: Haryana <slcharyanacr@gmail.com>, dtldata@gmail.com <dtldata@gmail.com>, DTL WEB (dtlscheduling@gmail.com) <dtlscheduling@gmail.com>, system.uppcl@gmail.com <system.uppcl@gmail.com>, JK SLDC <jksldc1@gmail.com>, apc_chandigarh@hotmail.com <apc_chandigarh@hotmail.com>, Sr.Xen P.C., Patiala SLDC Operations <pc-sldcop@pstcl.org>, Uttarakhand <sldc1@rediffmail.com>, cecnsjmu@gmail.com <cecnsjmu@gmail.com>, dtldata@yahoo.co.in <dtldata@yahoo.co.in>, ldsvpnl@gmail.com <ldsvpnl@gmail.com>, ldshutdown@gmail.com <ldshutdown@gmail.com>, pcpsseb@gmail.com <pcpsseb@gmail.com>,

pcshimla2003@gmail.com <pcshimla2003@gmail.com>

Cc: R K Porwal (आर के पोरवाल) <rk.porwal@grid-india.in>, Somara Lakra (सोमारा लकरा) <somara.lakra@grid-india.in>, nrlcdc_hods_tech <nrlcdc_hods_tech@grid-india.in>, Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, WRLDC Control Room <wrldccr@grid-india.in>, NRLDC Scheduling <nrlcdcscheduling@grid-india.in>, NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>

Sir/Ma'am,

Please refer the trailing e-mail.

You are requested to review your power portfolio and arrange to bring on-bar units closed under RSD {Jhajjar(U#1,500 MW)}.

Thanks & Regards,

Shift-in-Charge

Grid Controller of India Ltd.(Grid-India)

Northern Regional Load Despatch Centre

18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373

From: NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम) <nldccr@grid-india.in>

Sent: 17 May 2023 15:35

To: NRLDC SO <nrlcdso@grid-india.in>; WRLDC Control Room <wrldccr@grid-india.in>

Cc: Surajit Banerjee (सुरजीत बनर्जी) <surajit.banerjee@grid-india.in>; Ashok Kumar (अशोक कुमार) <ashokkr@grid-india.in>;

Vivek Pandey (विवेक पांडे) <vivek.pandey@grid-india.in>; Alok Kumar (आलोक कुमार) <alok.kumar@grid-india.in>; Mahavir

Prasad Singh (महावीर प्रसाद सिंह) <mahavir@grid-india.in>; Pushpa S (पुष्पा एस) <pushpa@grid-india.in>

Subject: Bringing units out on RSD on bar_ Important

Sir,

All India demand is in rising trend and today all India maximum demand touched 220 GW. Considering the coming dry weather, which may further increase the demand in coming days; you are requested to kindly bring Jhajjar(U#1,500 MW), Gadarwara(U#1,800 MW) on bar from RSD through requisition of their beneficiaries.

Regards,

Shift Incharge

National Load Dispatch Center

Grid Controller of India Limited

(Formerly Power System Operation Corporation)

Government of India Enterprise

B-9 Qutub Institutional Area

Katwaria Sarai , New Delhi -110016

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SCE,

IGSTPP Jhajjar.

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amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Thu, May 18, 2023 at 1:08 AM

To: NRLDC SO <nrldcso@grid-india.in>

Cc: amit hooda <amit.hooda01@gmail.com>, "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिसंकर चिलुकुरि)" <pchilukuri@grid-india.in>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "Alok Kumar (आलोक कुमार)" <alok.kumar@grid-india.in>, "NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)" <nldccr@grid-india.in>, cksamta@ntpc.co.in

Dear Sir,

With reference to your email, we would like to reiterate that our third machine is available to be brought on the bar. However, due to transmission constraint owing to non-availability of Jhajjar-Daulatabad circuit 1 & 2 (owned by HVPNL) bringing third machine on the bar and running on full load is a safety concern.

Non availability of dedicated transmission line for evacuation of Haryana' share from our station may not be the reason for reduction of our DC.

It is our humble request to kindly reconsider your decision and take necessary action as deemed fit.

Thanks & Regards

SCE- Jhajjar

[Quoted text hidden]

--

SCE,

IGSTPP Jhajjar.



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

NRLDC SO <nrlcdcso@grid-india.in>

Thu, May 18, 2023 at 12:06 PM

To: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Cc: "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिसंकर चिलुकुरि)" <pchilukuri@grid-india.in>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "cksamta@ntpc.co.in" <cksamta@ntpc.co.in>, "Somara Lakra (सोमारा लाकरा)" <somara.lakra@grid-india.in>, amit hooda <amit.hooda01@gmail.com>, "S. C. Saxena (एस. सी. सक्सेना)" <scsaxena@grid-india.in>, nrlcd_hods_tech <nrlcd_hods_tech@grid-india.in>, "NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)" <nldccr@grid-india.in>, "R K Porwal (आर के पोरवाल)" <rk.porwal@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>

Sir,

With reference to trailing mail, Kindly bring the unit 1 500MW of Jhajjar ON BAR on immediate basis. In case of deficit in technical minimum schedule, RRAS support will be provided by NLDC.

Thanks & Regards,**Grid Controller of India Ltd.****(Grid-India)**

Northern Regional Load Despatch Center
18-A, Saheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016
Ph. : 011-26519406, Hot Line: 20112151/52, M. - 08448167373

[Quoted text hidden]

[Quoted text hidden]



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

NRLDC SO <nrlcdso@grid-india.in>

Thu, May 18, 2023 at 12:18 PM

To: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>

Cc: "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिशंकर चिलुकूरि)" <pchilukuri@grid-india.in>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "cksamta@ntpc.co.in" <cksamta@ntpc.co.in>, "Somara Lakra (सोमारा लाकरा)" <somara.lakra@grid-india.in>, amit hooda <amit.hooda01@gmail.com>, "S. C. Saxena (एस. सी. सक्सेना)" <scsaxena@grid-india.in>, nrlcd_hods_tech <nrlcd_hods_tech@grid-india.in>, "NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)" <nldccr@grid-india.in>, "R K Porwal (आर के पोरवाल)" <rk.porwal@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>, "Alok Kumar (आलोक कुमार)" <alok.kumar@grid-india.in>

Sir,

In continuation of trailing mail, after syn. of U#1, kindly restrict the total generation of Jhajjar at 1200MW. In case of tripping of any one ckt of 400kV Jhajjar- Mundka, please bring down the generation to technical minimum.

Thanks & Regards,**Shift-in-Charge****Grid Controller of India Ltd.(Grid-India)****Northern Regional Load Despatch Centre****18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016****Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373**

[Quoted text hidden]

[Quoted text hidden]



amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

amit hooda <amit.hooda01@gmail.com>

Thu, May 18, 2023 at 1:33 PM

To: NRLDC SO <nrldcso@grid-india.in>

Cc: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिशंकर चिलुकुरि)" <pchilukuri@grid-india.in>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "cksamta@ntpc.co.in" <cksamta@ntpc.co.in>, "Somara Lakra (सोमारा लाकरा)" <somara.lakra@grid-india.in>, "S. C. Saxena (एस. सी. सक्सेना)" <scsaxena@grid-india.in>, nrlcd_hods_tech <nrlcd_hods_tech@grid-india.in>, "NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)" <nldccr@grid-india.in>, "R K Porwal (आर के पोरवाल)" <rk.porwal@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>, "Alok Kumar (आलोक कुमार)" <alok.kumar@grid-india.in>, Sanjeev Kumar Singh <SKSINGH15@ntpc.co.in>, "R.P Pradhan" <sec-nrpc@nic.in>, SE Operation <seo-nrpc@nic.in>

Dear Sir,

With reference to your advisory dated 10-05-2023 which is as follows:

Quote

400kV Jhajjar-Daulatabad-1 & 2 are under forced outage due to tower bend which is expected to be revived around 25th May. Currently, Jhajjar is evacuating power through 400kV Jhajjar-Mundka-1 & 2 with thermal limit of 852 MW each circuit. In case of tripping of any of the circuit, you are requested to back down the generation suitably for safe evacuation of power from Jhajjar.

Unquote

Further, reference is requested to your email dated 10-05-2023 wherein you asked Haryana to revive the Jhajjar-Daulatabad Circuit 1 & 2 as early as possible for running of all 03 units at NTPC, Jhajjar. Without revival of Jhajjar-Daulatabad lines only 02 Units can be run at NTPC, Jhajjar. Kindly expedite the restoration of lines as early as possible.

Now, without revival of Jhajjar-Daulatabad Transmission circuits, we are being insisted to run the third machine which is not desirable and safe considering (n-1) compliance.

Running three machines in this condition may lead to station blackout and may endanger our machines and the transmission element. This may result in prolonged outage of units and Thermal runaway of the Transmission line. In case of any mishap with both available Jhajjar-Mundka lines, station won't be able to get backup power for a considerable period of time for restoration.

Bringing third unit with load restriction of 1200 MW on two available transmission lines is not safe as we won't be able to back down upto safe evacuation limit of 850 MW in case (n-1) condition arises, which may pose a serious safety concern for non-stakeholder entities along the span of Jhajjar-Mundka Transmission lines.

In case of any untoward incident arising thereof APCPL-IGSTPS Jhajjar will not be held responsible.

In view of the above, it is once again requested to kindly review your decision and intimate whether to bring the machine or not.

With Regards

AMIT HOODA

Senior Manager (EEMG-Commercial)

APCPL-IGSTPS Jhajjar

Ph. +91-9416212595

01251-266567

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amit hooda <amit.hooda01@gmail.com>

Fwd: FW: Bringing units out on RSD on bar_ Important

NRLDC SO <nrlcdcso@grid-india.in>

Thu, May 18, 2023 at 2:42 PM

To: amit hooda <amit.hooda01@gmail.com>

Cc: Igstpp Jhajjar <igstpp.jhajjar.sce@gmail.com>, "Surajit Banerjee (सुरजीत बनर्जी)" <surajit.banerjee@grid-india.in>, "Ashok Kumar (अशोक कुमार)" <ashokkr@grid-india.in>, "Vivek Pandey (विवेक पांडे)" <vivek.pandey@grid-india.in>, "Phanisankar Chilukuri (फणिशंकर चिलुकुरि)" <pchilukuri@grid-india.in>, Laxmidhar Sahoo <ldsahoo01@ntpc.co.in>, Sanjay Asati <sanjayasati@ntpc.co.in>, Prashant Jain <prashantjain@ntpc.co.in>, Lalit Neeraj ललित नीरज <lalitneeraj@ntpc.co.in>, B S RAO <SRBODANKI@ntpc.co.in>, "Mahavir Prasad Singh (महावीर प्रसाद सिंह)" <mahavir@grid-india.in>, "cksamta@ntpc.co.in" <cksamta@ntpc.co.in>, "Somara Lakra (सोमारा लाकरा)" <somara.lakra@grid-india.in>, "S. C. Saxena (एस. सी. सक्सेना)" <scsaxena@grid-india.in>, nrlcdc_hods_tech <nrlcdc_hods_tech@grid-india.in>, "NLDC Control Room (एन.एल.डी.सी. कंट्रोल रूम)" <nldccr@grid-india.in>, "R K Porwal (आर के पौरवाल)" <rk.porwal@grid-india.in>, NRLDC Scheduling <nrlcdscheduling@grid-india.in>, "Alok Kumar (आलोक कुमार)" <alok.kumar@grid-india.in>, Sanjeev Kumar Singh <SKSINGH15@ntpc.co.in>, "R.P Pradhan" <sec-nrpc@nic.in>, SE Operation <seo-nrpc@nic.in>

Sir,

With ref. to our earlier communication kindly bring the unit 1 500MW of Jhajjar ON BAR immediately.

Thanks & Regards,**Shift-in-Charge****Grid Controller of India Ltd.(Grid-India)****Northern Regional Load Despatch Centre****18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016****Ph. : 011-26519406, Hot Line :20112151/52, M.: 08448167373**

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