

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

सं.:उ.क्षे.वि.स./प्रचालन/106/01/2022/

दिनांक: 25.03.2022

विषय: उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 193^{वी} बैठक के खण्ड-अ मे लिए गए निर्णयों का सार।

Subject: Gist of decisions taken in the Part-A of 193rd OCC meeting of NRPC.

उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप- समिति की 193^{वी} बैठक दिनांक 22.03.2022 को आयोजित की गयी। उक्त बैठक की खण्ड-अ मे लिए गए निर्णयों का सार **अनुलग्नक – अ** के रूप मे संलग्न है।

193rd meeting of the Operation Co-ordination Sub-Committee of NRPC was held on 22.03.2022. The Gist of the decisions taken in Part-A of this meeting is enclosed as **Annexure-A**.

(सौमित्र मजूमदार) अधीक्षण अभियंता (प्रचालन)

सेवा में,

प्रचालन समन्वय उप- समिति के सभी सदस्य ।

Gist of decisions taken in the Part-A of 193rd OCC Meeting

Agenda No. 1: Confirmation of Minutes

Minutes of 192nd OCC meeting was issued on 07.03.2022. OCC confirmed the minutes.

NRLDC agreed to rectify the discrepancy in regard to the request of NR-III, POWERGRID to remove following elements from NR-III element availability list and incorporate the same in Minutes of 192nd OCC meeting of NRPC under "Long Outages Report as on 07.03.22 part D-Line Reactor SI. No. 2 & 3 "

1. Line Reactor of 400 KV Allahabad-Fatehpur- I at Allahabad out of service since 1326 hrs dt.10.12.21

2. Line Reactor of 400 KV Allahabad-Fatehpur- II at Allahabad out of service since 1025 hrs dt 12.12.21

Agenda No. 2.1: Supply Position (Provisional) for February 2022

Reasons submitted by states for significant deviation of actual demand from anticipated figures during the month of February 2022 are as under:

• Delhi

In Feb-22, the variation between actual and anticipated peak demand is (+) 8.36 % and the variation between actual and anticipated Energy consumption is (-) 3.95%. The positive variation in demand is mainly due to weather conditions. The negative variation in energy consumption is mainly due to partial covid-third wave restrictions.

• Rajasthan

The Energy consumption & Peak Demand increased by 0.9 % & 3.2 % respectively w.r.t. Anticipated Energy requirement & Anticipated Peak Demand is within permissible limit.

• Punjab

Actual maximum demand and actual energy requirement are less as compared to anticipated maximum demand and anticipated energy requirement respectively because of scattered storms in the state of Punjab during month of February 2022.

• Haryana

The variation between the anticipated demand and energy consumption for Feb-2022 is due to Agriculture demand dip by 18.39% due to unusual weather conditions during the month of Feb 2022.

• Uttarakhand

The Anticipation in Energy requirement and Peak Demand in respect of Himachal Pradesh for the month of February, 2022 came on the higher side due to the heavy snowfall and low temperature (increased heating load).

Agenda No. 2.2: Power Supply Position of NCR

The Sub-Committee was informed that the NCR Planning Board (NCRPB) is closely monitoring the power supply position of National Capital Region. Monthly power supply position for NCR till the month of February 2022 was enclosed in the agenda and same was discussed in the meeting.

No significant deviation in any of the states was observed.

Agenda No. 3: Maintenance Programme of Generating units and Transmission Lines

- The maintenance programme of generating units and transmission lines for the month of April 2022 was deliberated in the meeting on 21.03.2022.
 - Requested Requested Element Owner Reason Remarks Decision of occ То Name From NAPS NAPS 06-Jun-NAPS-1 24-Apr-In LGBR In view of high BSD FOR 2022 Narora 2022 demand in meeting Unit-I 45 DAYS peak summer outage 00:00 Hrs 23:59 Hrs was months. NAPS proposed was asked to from 1explore the Apr-22 to option of 15-Mayavailing shutdown in 22 September month 400kV PSTCL OPGW 01-Apr-22 30-Apr-22 То Shutdown was Talwandi installation disable approved. 07:00 Hrs 19:00 Hrs Sabo-Auto re work Muktsar Closure Ckt-1 & to Ckt-2 manual Mode
- Following shutdown request was also approved/denied in the OCC meeting:

Moreover, the approved outage programme for the month of April 2022 was issued on 22.03.2022.

Agenda No. 4.1: Anticipated Power Supply Position in Northern Region for April 2022

• The updated anticipated Power Supply Position for April 2022 is as below:

State / UT	Availability / Requirement	Revised Energy (MU)	Revised Peak (MW)	Date of revision	
	Availability	120	320		
CHANDIGARH	Requirement	100	290	Revision not submitted	
	Surplus / Shortfall	20	30	Submitted	

State / UT	Availability / Requirement	Revised Energy (MU)	Revised Peak (MW)	Date of revision	
	% Surplus / Shortfall	20.0%	10.3%		
	Availability	3785	6100		
	Requirement	2900	6100	21-Mar-22	
DELHI	Surplus / Shortfall	885	0	21-Mar-22	
	% Surplus / Shortfall	30.5%	0.0%		
	Availability	4930	10730		
	Requirement	4175	9000		
HARYANA	Surplus / Shortfall	755	1730	10-Mar-22	
	% Surplus / Shortfall	18.1%	19.2%		
	Availability	920	1630		
HIMACHAL	Requirement	908	1635		
PRADESH	Surplus / Shortfall	12	-5	14-Mar-22	
	% Surplus / Shortfall	1.4%	-0.3%		
	Availability	1270	3000		
	Requirement	1830	3110	Revision not	
J&K and LADAKH	Surplus / Shortfall	-560	-110	submitted	
	% Surplus / Shortfall	-30.6%	-3.5%		
	Availability	5140	8370		
	Requirement	4150	8410	04 Max 00	
PUNJAB	Surplus / Shortfall	990	-40	21-Mar-22	
	% Surplus / Shortfall	23.9%	-0.5%	-	
	Availability	7940	17980		
	Requirement	7760	13000	21 Mar 22	
RAJASTHAN	Surplus / Shortfall	180	4980	21-Mar-22	
	% Surplus / Shortfall	2.3%	38.3%		
	Availability	10800	21500		
	Requirement	10350	21500		
UTTAR PRADESH	Surplus / Shortfall	450	0	15-Mar-22	
	% Surplus / Shortfall	4.3%	0.0%		
	Availability	1077	1920		
	Requirement	1098	1950		
UTTARAKHAND	Surplus / Shortfall	-21	-30	05-Mar-22	
	% Surplus / Shortfall	-1.9%	-1.5%		
NORTHERN	Availability	35982	65900		
REGION	Requirement	33270	59900	1	

State / UT	Availability / Requirement	Revised Energy (MU)	Revised Peak (MW)	Date of revision
	Surplus / Shortfall	2711	6000	
	% Surplus / Shortfall	8.1%	10.0%	

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	То
Delhi	Apr-2018	Sep-2021
Haryana	Apr-2018	Nov-2021
Himachal Pradesh	Apr-2018	Dec-2021
Punjab	Apr-2018	Jan-2022
Rajasthan	Apr-2018	Jan-2022
Uttar Pradesh	Apr-2018	Jan-2022
Uttarakhand	Apr-2018	Sep-2021

- OCC forum again expressed concern on non-submission of energy breakup data by UTs of J&K & Ladakh, and Chandigarh despite repeated reminders.
- Graphical representation of break up figures of energy consumption for NR states was
 presented by NRPC Sectt. Himachal Pradesh and Rajasthan were requested to clarify if
 there is any anomaly in data regarding the energy consumption under 'others' category
 and communicate the same to NRPC Sectt.

Agenda No. 6: System Study for Capacitor requirement in NR for the year 2019-20

- OCC forum was intimated that NRPC in its 48th meeting decided that the study report for 2019-20 along with the guidelines for finding the capacitor requirement at 11/33 kV level in NR would be submitted by CPRI. Accordingly, CPRI have submitted the system study report on 24.02.2021 and thereafter same was shared with the constituent states. The recommended capacitor compensation, additionally required as per the report is 352MVAr. The report has brought out the additional requirement of 137MVar and 215MVar compensation for Punjab and J&K respectively. Moreover, empirical relationship for capacitor requirement against voltage profile at 11 kV, based on two configurations has been worked out in the report.
- In the 45th TCC / 48th NRPC meeting, it was decided after the submission of report for 2019-20 and the guidelines, the same would be studied by the same sub-group who had earlier recommended for guidelines and foreclosure of the contract. Based on Committee's recommendations, NRPC Sectt. can process the pending bills of Rs. 14 lakhs (Rs. 2 + 12 Lakhs), excluding taxes along with foreclosure of the contract. Accordingly, submitted report needs to be examined by the Committee.
- In 181st OCC, forum decided that sub-group comprising of following officers would study the report and submit the recommendation report within two weeks:

- NRPC Sectt. asked comments/observations on the CPRI report from all the states via email. Comment from Delhi was received. Rajasthan, HP, Punjab, Haryana had submitted NIL comment. Comment from rest of the members was not received.
- In the 182nd OCC meeting, forum decided that a video-conferencing meeting may be held by members of sub-group to finalize the comments latest by 30th April, 2021 and compiled comments may be sent to CPRI for necessary correction in the report.
- The meeting of sub-group was held on 03.05.21. In the meeting, sub-group members decided to get PSSE file from CPRI for better understanding, which was later shared with them.
- In 183rd OCC meeting, NRPC representative requested for any other comments on the CPRI report, if remaining, from any of the members. Sub-group committee member from Rajasthan stated that since the CPRI report is for the year 2019-20, old data needs to be collected and then values in the CPRI report would be checked. It was further intimated that around 2-3 days' time would be required for this task. Rajasthan representative was requested to send their observation/comments via e-mail to NRPC Sectt. at the earliest. Forum decided that after receiving observations/comments from Rajasthan, the compiled observations/comments may be sent to CPRI so that necessary corrections may be done in the draft report.
- In 184th OCC, forum was apprised that compiled comments were mailed to CPRI vide email dated 28th May'21 with a request to submit the corrected report within two weeks' time.
- CPRI vide email dated 31st May'21 communicated that majority of comments are on the modeling of base case PSSE file. Since the file is given by NRPC and CPRI has not modeled it so they are not in position to make any comment on the accuracy & modeling of file.
- In 185th OCC, NRPC representative stated that CPRI has submitted on 28th June 2021 its point-wise reply on the observations of sub-group along with updated report. OCC forum decided that a video-conferencing meeting may be held within sub-group members and CPRI for further discussion on reply of CPRI.
- In 186th OCC, NRPC representative apprised the forum that in line with decisions of 185th OCC, a meeting was held on 06.08.2021 under the chairmanship of MS, NRPC through Video Conferencing. It was attended by members of the sub-group, CPRI representatives, and officials from NRPC Sectt & NRLDC.
- It was also stated that in the meeting dt. 06.08.2021, comments of the sub-group on the latest version of CPRI report were deliberated in detail. After weighing the merits of the original & revisions of the report, following were decided:
 - First Report submitted by CPRI in September, 2020 shall be considered as the reference report. CPRI confirmed that the base-case of 11.07.2018 at 00:45 hrs. received from NRPC Sectt has been used for preparing September, 2020 report.
 - Comments from all utilities and NRLDC on September 2020 report must be submitted to NRPC Sectt, latest by 24.08.2021.
 - NRPC Sectt, after examination, shall share with CPRI the compiled comments of the utilities and NRLDC, latest by 31.08.2021.
 - Thereafter, CPRI shall submit its reply on the compiled comments sent by NRPC

Sectt, latest by 15.09.2021.

- It was further intimated that base case file (11.07.2018 00:45 hrs) and CPRI September 2020 report has been e-mailed to all sub-group members on 10.08.2021 requesting to submit comments/observations thereon latest by 24.08.2021.
- In the meeting (187th OCC), forum was apprised that although last date for submission of comments was 24.08.2021, NRPC Sectt. received comments from Himachal Pradesh, Punjab, Rajasthan, Delhi, and NRLDC vide mails dtd. 24.08.2021, 25.08.2021, 26.08.2021, 31.08.2021, and 03.09.2021 respectively. As the received comments were also on the base-case data, a meeting was held on 06.09.2021 among officers of NRPC Sectt, NRLDC and above four states for discussing comments before sending to CPRI. After detailed discussions, following were decided:

A. Himachal Pradesh:

- a) It was apprised by NRLDC that generation data of micro IPPs has not been modelled by them in base-case due to their small quantity. Further, Capacitor at Baddi needs to be removed from base-case.
- b) HP was requested to submit within 3 days data regarding (11.07.2018 00:45 HRS):
 - i. Generation break-up along with details of micro IPPs.
 - ii. Capacitors at 132 kV level
 - iii. Nodes of major voltage profile mismatch
 - iv. Load factor of state (current scenario if data of past is not available)
- c) It was decided that after getting above data from HP, base-case will be tuned by NRLDC before sending to CPRI.

B. Punjab:

- a) All switched reactors/capacitors to be converted into fixed & net shunt capacitor value in the base-case to be corrected as per Punjab's comment.
- b) Punjab was requested to submit low voltage nodes (11.07.2018 00:45 HRS) within 3 days.
- c) Based on data from Punjab, initial tuning to be done by NRLDC for Q values of generators. CPRI may be required to do further tuning.

C. Rajasthan:

- a) Except low voltage points, power factor needs to be upgraded in the base-case.
- b) Rajasthan representative confirmed that most of the capacitors were off during the time for which modelling is done, so lumped capacitor at 132kV needs to be deleted.
- c) Rajasthan was requested to submit
 - i. List of bus-wise capacitors and their status (OFF/ON condition) on 11.07.2018 00:45 HRS.
 - ii. Voltage profile of generator buses.

D. Delhi:

a) Delhi was requested to submit voltage profile of generator buses.

- It was decided that after receiving data from above four states, NRLDC will tune the base case initially and will also ensure that regional generators shall not absorb reactive power in the base-case and then base case will be sent to CPRI along with compiled comments.
- In 188th OCC, it was apprised that CPRI vide e-mail dtd. 23.09.2021, requested to send comments at the earliest.
- NRPC Sectt. vide e-mail dtd. 23.09.2021 apprised the CPRI that as per decisions of meeting dtd. 06.09.2021, tuning of base-case file is being done by NRLDC so that no new issue arises in future.
- CPRI vide e-mail dtd. 24.09.2021 has requested that any change in loading & generation
 profile will be a new base case and this will be a fresh study for new base case. It will
 require an extensive time and efforts. CPRI has requested to ensure that load/generation
 profile in tuned PSSE should be same as was given to CPRI for PSSE base 11.7.2018 at
 00.45.
- In view of CPRI's request, NRLDC was requested vide e-mail dtd. 24.09.2021 to halt tuning of base-case till further discussion.
- A meeting was held between NRPC Sectt. and NRLDC on 04.10.2021, wherein it was decided that without incorporating corrective comments of states, the report is not acceptable w.r.t drawing any conclusion on requirement of capacitor. Later, NRLDC representative informed that tuned base-case will be submitted by 28.10.2021.
- Tuned base-case has been received from NRLDC vide mail dtd 10.11.2021.
- In 189th OCC, NRPC representative apprised that tuned base-case received from NRLDC is under examination in NRPC Sectt. After examination, the same will be sent to CPRI for correction in the report along with the comments submitted by states.
- In 190th OCC, NRPC representative informed that tuned base-case along with comments of states has been sent to CPRI vide mail dated 30.11.2021 for correction in the report.
- In 191st OCC, NRPC representative apprised the forum that a meeting was held between members of the sub-group, CPRI representatives, and officials from NRPC Sectt & NRLDC on 05.01.2022, wherein it was decided that CPRI shall tune the Q_{gen} value taking help of NRLDC. Tuning may be done for some machines of Punjab (such as Talwandi Sabo), Uttarakhand (such as Shravanti), Himachal Pradesh, and Jammu. CPRI shall also tune Q_{gen} of Central Sector machines such as Salal, Rampur, Bhakra, Dehar etc. These Q_{gen} tunings shall be done in spirit to relieve machines from absorbing MVARs and to avoid over compensation in system due to recommended capacitors. CPRI has intimated 20th Jan'22 as target date for the activity.
- In 192nd OCC, NRPC representative apprised the forum that report has been received from CPRI vide mail dtd. 14.02.2022. However, some grammatical and typographical error were observed in the report and CPRI has been requested to resolve the same. After resolution of same, report shall be shared with sub-group members tentatively in next week. After final acceptance, payment to CPRI may be processed.
- In the meeting (193rd OCC), NRPC representative informed that final study report of CPRI has been shared with all states of NR region vide mail dated 02.03.2022. Further, matter regarding the payment will be taken as agenda in the next NRPC meeting.

Agenda No. 7: Automatic Demand Management System

- Forum was informed that as decided in the 175th OCC meeting, to conduct separate meeting with states, nominations are pending from PuVVNL, PVVNL, MVVNL, DVVNL, UPPTCL, UPCL, PTCUL, SLDC Uttarakhand, and J&K. They were requested on 01.03.2021 to submit nominations for the meeting.
- Meetings on ADMS implementation road map have been held with the officers of Haryana, Himachal Pradesh, Punjab and UP on 05.02.2021, 19.02.2021, 05.03.2021, and 14.07.2021 respectively. In these meetings, issues and apprehensions on ADMS were discussed along with vital aspects like addressing the commercial issues, basic architecture for scheme and funding possibilities for the scheme.
- As per the request of states for DPR of any state that has got PSDF support for ADMS, website link of PSDF Sectt. has been shared with Haryana, Himachal Pradesh, Punjab and Uttar Pradesh for accessing DPR. SLDCs were also requested to expedite the submission of pending nominations.
- In 186th OCC, In-charge, NRLDC stated that as per IEGC, implementation of ADMS is mandatory. It helps in reducing DSM charges also. States must take it seriously.
- MS, NRPC stated that non-implementation of ADMS by states is indistinguishably nonadherence to directions of CERC. He enquired from NRLDC whether POSOCO has made any communication with CERC regarding non-adherence of its deadline i.e. 31.06.2016. NRLDC representative stated that he would look into and inform in next meeting.
- NRPC representative added that initial deadline for ADMS implementation was 1st January 2011 as per para 5.4.2 (d) of IEGC. Later, CERC has taken suo-motu cognizance of non-implementation of ADMS by states and given 31.06.2016 as deadline vide its order dtd. 31.12.2015 in petition no. 5/SM/2014. Implementation deadline given by the statutory and regulatory body need to complied by concerned SLDC / SEB / distribution licensee as per regulation no. 5.4.2 (a) & (b) of IEGC. Moreover, hand holding process for project proposal preparation in respect of four NR states has already been done by NRPC.
- Forum decided that NRLDC may file a report to CERC based on compiled status of ADMS implementation in states of Northern Region.
- In the 187th OCC, NRLDC representative quoted the texts of CERC order dtd. 31.12.2015 in petition no. 5/SM/2014. He apprised the status of ADMS implementation till 2015. Further, he requested the states to update the status so that NRLDC may file petition in CERC on the basis of compiled status.
- In the 188th OCC, NRLDC informed that it has not received comments from states in this matter. Accordingly, all SLDC/DISCOMs are requested to furnish the latest status of ADMS implementation in their respective control areas latest by 31st October 2021 to NRLDC. Status as received till 31.10.2021 would be reported to CERC by NRLDC.
- In the 189th OCC, NRLDC informed that status of ADMS has been sent to CERC twice in the past (same is recorded in MoM of 127th OCC).
- NRLDC representative also informed that CERC will be apprised about the latest status of ADMS as per the updated information available with them.

- In the 190th OCC, NRLDC representative informed that vide letter dated 09.12.2021 (enclosed as Annexure-A.0 of minutes of 190th OCC), CERC has been apprised about the latest status of ADMS as per the updated information available with them.
- In 192nd OCC, forum was intimated that no further update has been received on this matter. Rajasthan representative intimated that ADMS implementation schedule in their state has been extended till Dec'22 and this agenda may be continued in OCC meetings for monitoring the ADMS implementation schedule.
- In the meeting (193rd OCC), Rajasthan representative informed that first trail is tentatively scheduled in May 2022.

Agenda No. 8: Follow-up of issues from various OCC Meetings - Status update

- Updated status is enclosed as Annexure-A.I.
- In 193nd OCC, SLDC's were requested to coordinate with respective Transmission utilities of states/UT's and submit details about the updated status of Down Stream network by State utilities from ISTS Station (*enclosed as Annexure-A-I.I*) before every OCC meeting.

Agenda No. 9. NR Islanding scheme

- Based on the decisions taken in the meeting taken by Hon'ble Minister of State (IC) for Power and New & Renewable Energy on 28.12.2020, Islanding Schemes for NR have been continuously reviewed/discussed in various forums.
- In 187th OCC, it was decided that states shall submit MIS report before every OCC meeting so that same may be discussed. Format was circulated vide agenda of 187th OCC.
- It was also highlighted that MoP has agreed for PSDF funding for implementation of islanding schemes and states were requested to prepare and submit DPR for the same. Further, a sample DPR on implementation of Islanding scheme for PSDF funding has been already circulated vide email dated 07.10.2021 and requested to expedite the preparation of DPR.
- Utilities were requested to refer and submit SOP for every Islanding scheme in their control area.
- A meeting was also held by Honorable Cabinet Minister (Power, New & Renewable Energy) on 07.10.2021 wherein emphasis was given on PSDF funding for Islanding schemes and DPR submission for the same. MoM has been issued and copy of the same is enclosed as Annexure-A.II of 189th OCC agenda.
- In the 189th OCC, MS, NRPC expressed concern regarding apathy of states in implementation of Islanding Schemes. He stated that all SLDCs shall intimate the names of Islands for which system study from CPRI is required along with justification for the same by 30th Nov, 2021. He also set timeline of 30th Nov, 2021 for Delhi to submit SOP data. He stated that communication may be sent to RAPS for submission of SOP data at the earliest.
- In the 190th OCC, NRPC representative informed that SOP data in respect of Delhi and RAPS have been received.

- UPSLDC vide letter dated 01.12.2021 has submitted the names of islands for which system study from CPRI is required. UPSLDC has highlighted, inter-alia, that involvement of long length 765kV line and high number of buses necessitates them to go for system study by CPRI. It has mentioned that SLDC/STU has no expertise in such studies and before doing any investment on the project, proper study is must for successful implementation and operation of Islands.
- HPSLDC vide letter dtd. 18.12.2021 has intimated that a meeting was held on 26.11.2021 between HPSLDC and HPSEBL wherein a team of officers from HPSLDC and HPSEBL has been formed to carry out transient study of all islands within a month.
- UPSLDC representative informed that CPRI has asked for some additional details and technical commercial offer would be provided to them by CPRI by 15th Jan 22.
- NRLDC representative informed that report received from Rajasthan regarding the Jodhpur-Barmer-Rajwest islanding scheme is in order and Rajasthan SLDC can proceed ahead. Further, NRLDC submitted that they use PSSE software for system study but Rajasthan has submitted details of Islands in MI Power Software, therefore, they are not able to access the file.
- Rajasthan SLDC representative informed that they have given the details in the hard copy
 of the load and generation to be considered for islanding scheme, and based on that have
 requested NRLDC to simulate it in PSSE software for validation. NRLDC representative
 agreed to the request of the Rajasthan SLDC.
- Uttarakhand SLDC representative informed that hydro stations near Dehradun are peaking stations and the proposed Dehradun islanding scheme appears to be infeasible. NRPC representative informed that some schemes in NR have been proposed by considering Hydro stations and Dehradun islanding scheme was proposed by the state SLDC itself in view of all factors. Thus, Uttarakhand SLDC shall immediately conduct study on the proposed Islanding Scheme having Khodri & Chibro units and provide status on the feasibility of scheme with supporting data so that same may be communicated to the Ministry.
- In 191st OCC, HPSLDC representative informed that they need further two weeks to submit the outcome of transient study of all islands.
- Uttarakhand representative informed that major hydro stations e.g. Chibro, Khodri etc at Dehradun Region in Yamuna valley are non-must run and peaking stations. Therefore, it is technically not feasible to implement Dehradun as an islanding scheme. However, nominations of nodal officers from various utilities (PTCUL, UJVN Ltd & UPCL) are being sought for the formation of internal committee for accessing the possibility of Dehradun as Islanding scheme and the report shall be submitted to NRPC Secretariat subsequently.
- NRPC representative asked Uttarakhand to expedite the submission regarding the status on feasibility of the proposed Islanding scheme.
- MS, NRPC stated that all constituents that have given their information about the planning of islanding scheme shall take up the work on top priority and submit the progress in time bound manner by submitting the updated MIS format every month.

- NRLDC representative informed that Rajasthan SLDC is modelling data on PSSE software and it is expected to be completed within one week. Thereafter, NRLDC will submit its comments on the same. Rajasthan representative consented for the same.
- UP and Punjab were asked to update the status of their study being done by CPRI. Both informed that there is no progress since last OCC and they are waiting for response from CPRI.
- In the meeting (192nd OCC), UPSLDC informed that they have received technocommercial offer from CPRI for both the islanding schemes of UP and accessing the inputs from CPRI they will be conveying a meeting in last week of February 2022.
- NRLDC representative informed modeling data on PSSE software received from Rajasthan has not been modeled for islanding scheme. Further, NRLDC representative asked Rajasthan SLDC to send their team next week for modeling the data on PSSE software.
- MS, NRPC asked Uttarakhand SLDC to expedite the study they are conducting to access the feasibility of Dehradun islanding scheme.
- NRPC representative informed that a meeting was convened by HPSLDC with officials of NRPC Sectt., NRLDC, HPSEBL, & HPPTCL on 11.02.2022. It was observed that system study work has been pending due to pre-occupation of the concerned resource. Therefore, it was decided that HPSLDC shall write letters to MDs of HPSEBL & HPPTCL. It was decided to review the status in another meeting in the first week of March 22. HPSLDC has written letter dt. 14.02.2022.
- Punjab SLDC also informed that they will be conveying a meeting with STU within a week to track the progress.
- In meeting (193rd OCC), NRPC representative informed forum that HPSLDC convened a
 meeting on 4th March 2022 wherein they presented the results of static and dynamic study
 conducted by them. NRLDC suggested that dynamic data used by HPSLDC is common
 data and it was decided that they will use data of particular generators and then apprise
 about the same.
- UPSLDC also convened a meeting on 7th March 2022 wherein they informed that CPRI has submitted the offer with a completion target of 5 months. It was also discussed that as there are two islanding schemes in UP control area hence it was suggested that CPRI may be asked to do it in 2 parts preferably 2.5 months each for both the islanding scheme.
- UPSLDC representative informed that CPRI would not be able to bifurcate the time separately for both the islanding scheme and acceptance is under consideration by the management.
- HPSLDC representative informed that they have communicated to all generators for providing dynamic data, and only reply from Karcham Wangtoo has been received from till date.
- Rajasthan representative informed that next week they will send their team to NRLDC for modelling the data on PSSE software.
- J&K representative informed that load has been identified and no further update. MS, NRPC asked J&K representative expedite the study work.

• Further, MS NRPC suggested that states shall coordinate with NRPC and NRLDC officials for carrying out the study.

Agenda No. 10. 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 09th March 2022).

Agenda No. 11. Renovation and up-gradation of the protection system of substations of UJVN Ltd. under PSDF Scheme (Agenda by UJVNL)

- UJVN Ltd. vide mail dated 11.03.2022 (Copy of the letter is attached as Annexure-A.III. of agenda) has intimated that they have submitted a DPR for renovation and up gradation of the protection system of 132kV & above substation under PSDF scheme to PSDF -NLDC secretariat through PUTCUL, nodal agency under PSDF scheme of Uttarakhand state vide mail dated 30.09.2021.
- UJVNL representative mentioned that PSDF-NLDC secretariat has now desired third party audit and clearance from NRPC prior to its approval under PSDF.
- UJVNL also requested Protection Audit team may be constituted for carrying out Third Party Protection Audit for 10 nos. of 132kV / 220kV S/s or Switchyards of UJVNL.
- NRPC representative informed that Training Programme/Workshop on Protection Audit for Protection System Engineers was conducted in two batches (details of the participants is attached as *Annexure.II*) and suggested to constitute a team amongst them.
- Forum was of view that two officers from PTCUL and one officer from NRLDC shall be nominated for protection audit. PTCUL and NRLC were requested to confirm the nomination for the same.

Agenda No. 12. Water requirement by Jal Shakti Vibhag, Himachal Pradesh from Chamera-1 Dam (Agenda by NHPC)

- NHPC has intimated vide letter dated 14.03.2022 that Jal Shakti Vibhag, Himachal Pradesh vide their letter dated 22/12/2021 (Copy of the letter is attached as Annexure-A.IV of agenda) informed that various Water Supply System (WSS) to the villages in Tehsil Dalhousie and Bhattiyat, Distt.: Chamba (HP) have been sanctioned by the competent authority for which the water has been proposed to be lifted from Channi Lahar, downstream of Village Parihar which is 2 KM upstream of Dam. The total quantity of water required on daily basis is 3.56 ML for the various habitations.
- Further, NHPC representative also mentioned that due to lifting of water from Dam, there
 will be very minor energy loss (0.28 MU approx. per year) from Chamera-1 Power Station.
 As the energy loss is negligible in comparison to Generation from Chamera-1 Power
 Station in a year, it is suggested to allow the Jal Shakti Vibhag, HP, to lift said quantum
 of water from upstream of Chamera-1 Dam.
- MS, NRPC opined that as there will be energy loss (0.28 MU approx. per year) from Chamera-1 Power Station and with regard to energy loss as there is a departure from PPA, so matter needs to be communicated to GM Division, CEA.

Agenda No.13. Planned shut down for overhaul of NTPC NR/NCR Station Generating Units (Agenda by NTPC)

- NTPC representative presented the matter to the forum and communicated the major constraints faced by them in overhaul Execution.
- Further, the NTPC representative mentioned that Generating Units overhaul for FY 2022-23 have been planned based on guidelines issued by last LGBR Sub Committee meeting held on 27.10.2021.
- OCC forum asked NTPC to adhere to the planned LGBR schedule for FY 2022-23.

Follow up issues from previous OCC meetings

	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 r enclosed in Annexure	
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.	Data upto following from various states CHANDIGARH DELHI HARYANA HP J&K and LADAKH PUNJAB RAJASTHAN UP UTTARAKHAND All States/UTs are r update status on mor	/ UTs: Sep-2019 Dec-2021 Aug-2021 Jan-2022 Not Available Aug-2021 Feb-2022 Feb-2022 Feb-2022 Feb-2022 requested to
3	Healthiness of defence mechanism: Self-certification	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".	Data upto following from various states © CHANDIGARH © DELHI © HARYANA © HP © J&K and LADAKH © PUNJAB © RAJASTHAN © UP © UTTARAKHAND © BBMB All States/UTs are r update status for he on monthly basis for schemes and on quar the rest.	<pre>/ UTs: Not Available Dec-2021 Dec-2021 Jan-2022 Not Available Sep-2021 Dec-2021 Dec-2021 Dec-2021 Dec-2021 cequested to ealthiness of UFRs r islanding</pre>
		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.	Status of the inform (month) from states under: HARYANA PUNJAB RAJASTHAN	

		installation work on monthly basis is monitored in OCC meetings.	FGD status details are enclosed as Annexure-A. I. II. All States/utilities are requested to update status of FGD installation progress on monthly basis.
5	=	different generating units are	All states/UTs are requested to submit daily data on MERIT Order Portal timely.

6	Reactive compensation at 220 kV/ 400 kV level at 15 substations						
	State / Utility	Substation	Reactor	Status			
i	POWERGRID	Kurukshetra	500 MVAr TCR	Anticipated commissioning: July 2022 (90% supplies received from GE and rest is expected by Feb'22)			
ii	DTL	Peeragarhi	1x50 MVAr at 220 kV	PO awarded to M/s Kanohar Electricals Ltd. Drawings approved and under stage inspection (delay due to pending supply of reactor bushings). 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 stage inspection (delay due to pending supply of reactor bushings). GIS Bay is already available. Anticipated commisioning: July 2022			
iv	DTL	Mundka	1x125 MVAr at 400 kV & 1x25 MVAr at 220 kV	Bay work awarded to M/s. Ethos. Bay work is completed. 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 completed. 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 completed. 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.			
ix	PUNJAB	Nakodar	1x25 MVAr at 220 kV	220kV Reactors - LOA issued on dated 19.07.2021 and date of completion of project is 18 months from the date of LOA.			
Х	PTCUL	Kashipur	1x125 MVAR at 400 kV	Tender has been invited in first week of Jan'22.			

xi	RAJASTHAN	Akal	1x25 MVAr	LOA placed on dt. 4.1.2021. Agreement signed on dt. 8.02.2021. 2nd installment has been received on dt. 30.07.2021. The erection work is under progress and shall be commissioned by March/April' 2022.
xii	RAJASTHAN	Bikaner	1x25 MVAr	LOA placed on dt. 4.1.2021. Agreement signed on dt. 8.02.2021. 2nd installment has been received on dt. 30.07.2021. The erection work is under progress and shall be commissioned by March/April' 2022.
xiii	RAJASTHAN	Suratgarh	1x25 MVAr	LOA placed on dt. 4.1.2021. Agreement signed on dt. 8.02.2021. 2nd installment has been received on dt. 30.07.2021. The erection work is under progress and shall be commissioned by March/April' 2022.
xiv	RAJASTHAN	Barmer & others	13x25 MVAr	Agreement signed on dt. 22.06.2020. Grant of Ist Installment received on dt.19.02.21 & technical bid opened on dt.22.10.2021. Price bid opened on dt. 10.01.2022 & order likely to be placed by March/April' 2022.
XV	RAJASTHAN	Jodhpur	1x125 MVAr	Agreement signed on dt. 22.06.2020. Grant of Ist Installment received on dt.19.02.21 & technical bid opened on dt.22.10.2021. Price bid opened on dt. 10.01.2022 & order likely to be placed by March/April' 2022.

Annexure-A.I.I

						Annexure-A-I.I
1. D	own Stream network I	by State utilities from ISTS :	Station:			
SI. 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.	-	PDD, J&K to update the status.
	400/220kV, 2x315	Commissioned: 6	Utilized: 2	• 220 kV New Wanpoh - Alusteng D/c Line	-	PDD, J&K to update the status.
2	MVA New Wanpoh	Total: 6	Unutilized: 4	• 220 kV New Wanpoh - Mattan D/c Line	-	PDD, J&K to update the status.
3	400/220kV, 2x315 MVA Amargarh	Commissioned: 6 Total: 6	Utilized: 6 Unutilized: 2	• 220kV D/C line from 400/220kV Kunzar - 220/33kV Sheeri	-	PDD, J&K to update the status.
4	400/220kV, 2x500 MVA Kurukshetra (GIS)	Commissioned: 8 Total: 8	Utilized: 6 Unutilized: 2	• 220kV Bhadson (Kurukshetra) – Ramana Ramani D/c line	-	HVPNL to update the status.
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.
		Commissioned: 6	Utilized: 3 Unutilized: 3	• 220 kV D/C Shahajahanpur (PG) - Gola line	-	UPPTCL to update the status.
6	Shahjahanpur, 2x315 MVA 400/220 kV	Approved/Under Implementation:1 Total: 7	(2 bays to be utilized shortly) Approved/Under Implementation:1	• LILO of Sitapur – Shahjahanpur 220 kV SC line at Shahjahanpur (PG) – under commissioning	21.02.2022	Updated in 192nd OCC by UPPTCL
7	Hamirpur 400/220 kV Sub-station	Commissioned: 8	Utilized: 4 Unutilized: 4	• 220 kV Hamirpur-Dehan D/c line	Mar'22	Updated in 192nd OCC by HPPTCL
	Sub-station	Total: 8	(2 bays to be utilized shortly)	 Network to be planned for 4 bays 	-	HPPTCL to update the status.
8	Sikar 400/220kV, 1x 315 MVA S/s	Commissioned: 8	Utilized: 4	• LILO of 220 kV Sikar (220 kV GSS)-Dhod S/c line at Sikar (PG)	Mar'22	Forest Cleareance issue has been resolved as Updated in 192nd OCC by RRVPNL
	1X 313 MIVA 3/3	Total: 8	Unutilized: 4	 Network to be planned for 2 bays. 	-	RRVPNL to update the status.
				• 220 kV D/C line Bhiwani (PG) – Bhiwani (HVPNL) line	-	Issue related to ROW as intimated in 192nd OCC.HVPNL to update the status.
9	Bhiwani 400/220kV S/s	Commissioned: 6 Total: 6	Utilized: 0 Unutilized: 6	• 220 kV Bhiwani (PG) - Isherwal (HVPNL) D/c line.	-	Issue related to ROW as intimated in 192nd OCC.HVPNL to update the status.
				• 220 kV Bhiwani (PG) - Dadhibana (HVPNL) D/c line.	-	Issue related to ROW as intimated in 192nd OCC.HVPNL to update the status.
10	Jind 400/220kV S/s	Commissioned: 4 Approved:4 Total: 8	Utilized: 4 Unutilized: 0 Approved:4	• 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	-	HVPNL to update the status.
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.
	GIS	Total: 10	Under Implementation:4	• Masjid Mor – Tughlakabad 220kV D/c line.	-	DTL to update the status.
12	400/220kV Kala Amb GIS	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	Jan'23	Updated in 192nd OCC by HPPTCL
	(TBCB)	Total: 6	Unutilized: 6	Network to be planned for 4 bays	-	HPPTCL to update the status.
	400/220kV Kadarpur	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.	-	HVPNL to update the status.
13	Sub-station	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	-	HVPNL to update the status.

SI. No.	Substation	Downstream network bays	Status of bays	Planned 220 kV system and Implementation status	Revised Target	Remarks
14	400/220kV Sohna	Commissioned: 8	Utilized: 0	• LILO of both circuits of 220kV D/c Sector-69 - Roj Ka Meo line at 400kV Sohna Road	-	HVPNL to update the status.
	Road Sub-station	Total: 8	Unutilized: 8	• LILO of both circuits of 220kV D/c Badshahpur-Sec77 line at 400kV Sohna Road	-	HVPNL to update the status.
15	400/220kV Prithla Sub-station	Commissioned: 8	Utilized: 0	• LILO of both ckt of 220kV D/c Ranga Rajpur – Palwal line	-	HVPNL to update the status.
		Total: 8	Unutilized: 8	• 220kV D/C for Sector78, Faridabad	-	HVPNL to update the status.
16	400/220kV Sonepat Sub-station	Commissioned: 6 Under Implementation:2	Utilized: 2 Unutilized: 2	LILO of both circuits of 220kV Samalkha - Mohana line at Sonepat		HVPNL to update the status.
	Sub-station	Total: 8	Under Implementation:2	• Sonepat - HSIISC Rai 220kV D/c line	Jul'22	Updated in 192nd OCC
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)	Oct'22	In Tendering stage as updated in 192nd OCC by RVPNL.
18	400/220kV Kotputli Sub-station	Commissioned: 6 Total: 6	Utilized: 4 Unutilized: 2	• Kotputli - Pathreda 220kV D/c line	-	RVPNL to update the status.
19	400/220kV Jallandhar Sub-station	Commissioned: 10 Total: 10	Utilized: 8 Unutilized: 2	Network to be planned for 2 bays	-	PSTCL to update the status.
20	400/220kV Roorkee Sub-station	Commissioned: 6 Total: 6	Utilized: 4 Unutilized: 2	• Roorkee (PG)-Pirankaliyar 220kV D/c line	-	PTCUL to update the status.
21		Commissioned: 8 Total: 8	Utilized: 4 Unutilized: 4	Network to be planned for 4 bays	-	UPPTCL to update the status.
22	400/220kV Gorakhpur Sub-station	Commissioned: 6 Total: 6	Utilized: 4 Unutilized: 2	Network to be planned for 2 bays	-	UPPTCL to update the status.
23	400/220kV Fatehpur Sub-station	Commissioned: 8 Under Implementation:2 Total: 10	Utilized: 6 Unutilized: 2 Under	• Network to be planned for 4 bays	-	UPPTCL to update the status.
24	400/220k)/ Abdullopur	Commissioned: 10 Under Implementation:2 Total: 12	Implementation:2 Utilized: 10 Unutilized: 0 Under Implementation:2	• Abdullapur – Rajokheri 220kV D/c line	Mar'22	Updated in 192nd OCC by HVPNL
				• Panchkula – Pinjore 220kV D/c line	-	HVPNL to update the status.
		Commissioned: 8		• Panchkula – Sector-32 220kV D/c line	-	HVPNL to update the status.
		Under tender:2	Utilized: 2	• Panchkula – Raiwali 220kV D/c line	-	HVPNL to update the status.
25	Sub-station	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	Unutilized: 4 Under Implementation:2	• Panchkula – Sadhaura 220kV D/c line: Sep'23	-	HVPNL to update the status.
		Commissioned:7	Utilized: 6	• Amritsar – Patti 220kV S/c line	-	PSTCL to update the status.
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) 	-	PSTCL to update the status.
27	400/220kV Bagpat	Commissioned: 8 Total: 8	Utilized:6 Unutilized: 2	•• Bagpat - Modipuram 220kV D/c line	-	UPPTCL to update the status.
28	400/220kV Bahardurgarh S/s	Commissioned: 4 Total: 4	Utilized:2 Unutilized: 2	• Network to be planned for 2 bays.		HVPNL to update the status.

SI. No.	Substation	Downstream network bays	Status of bays	Planned 220 kV system and Implementation status	Revised Target	Remarks
29	400/220kV Jaipur (South) S/s	Commissioned: 4 Total: 4	Utilized:6 Unutilized: 2	Network to be planned for 2 bays.	-	RVPNL to update the status.
30	400/220kV Sohawal S/s	Commissioned: 8 Total: 8	Utilized: 2 Unutilized: 6	 Sohawal - Barabanki 220kV D/c line Sohawal - New Tanda 220kV D/c line Network to be planned for 2 		UPPTCL to update the status. UPPTCL to update the status.
31	400/220kV, Kankroli	Commissioned: 6 Total: 6	Utilized: 4 Unutilized: 2	• Network to be planned for 2 bays	-	UPPTCL to update the status.
32	400/220kV, Manesar	Commissioned: 8 Total: 8	Utilized: 4 Unutilized: 4	Network to be planned for 4 bays	-	HVPNL to update the status
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	-	UPPTCL to update the status
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	-	PSTCL to update the status
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	-	HPPTCL to update the status
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	-	UPPTCL to update the status
38	400/220kV, Patiala	Commissioned: 8 Total: 8	Utilized: 6 Unutilized: 2	• Network to be planned for 2 bays	-	PSTCL to update the status
2. E	stablishment of new 4	00/220kV substations in No	rthern Region:			
SI. No.	Name of Substation		MVA Capacity	Expected Schedule		Downstream connectivity by States
1	1 400/220kV Dwarka-I GIS (8 nos. of 220kV bays)		4x 500	Mar'22		DTL to update the status.
2	2 220/66kV Chandigarh GIS (8 nos. of 66kV bays)		2x 160	Apr'22		Chandigarh to update the status.
	the lines being constru	0kV Line Bays, 4 nos. Iliganga-2) would be used by cted by POWERGRID and ould be used by the lines	2x315	Feb'22		 220kV Almora-Jauljibi line 220kV Brammah-Jauljibi line PTCUL to update the status of lines.

Annexure-A.I.II

FGD Status

Updated status of FGD related data submission

GGSSTP, Ropar

CHHABRA SCPP

CHHABRA TPP

KALISINDH TPS

SURATGARH SCTPS

SURATGARH TPS

KOTA TPS

GH TPS (LEH.MOH.)

NTPC (25.02.2022) **MEJA Stage-I PSPCL (21.03.2022) RIHAND STPS** SINGRAULI STPS **TANDA Stage-I RRVUNL (10.03.2022) TANDA Stage-II UNCHAHAR TPS UPRVUNL (21.03.2022) ANPARA TPS** HARDUAGANJ TPS **OBRA TPS**

PARICHHA TPS

Updated status of FGD related data submission

Lalitpur Power Gen. Co. Ltd. (15.02.2022)	Adani Power Ltd. (18.02.2022) KAWAI TPS
Lalitpur TPS	Rosa Power Supply Company
Lanco Anpara Power Ltd.	(15.02.2022)
(15.02.2022)	Rosa TPP Phase-I
ANPARA-C TPS	Prayagraj Power Generation
HGPCL (21.03.2022)	Company Ltd. (15.02.2022)
PANIPAT TPS	Prayagraj TPP
RAJIV GANDHI TPS	APCPL (25.02.2022)
YAMUNA NAGAR TPS	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: 30-09-2022), INDIRA GANDHI STPP U#2 (Target: 30-09-2022), INDIRA GANDHI STPP U#3 (Target: 30-09- 2022)
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: 30-04-2021), PANIPAT TPS U#7 (Target: 28-02-2021), PANIPAT TPS U#8 (Target: 31-12-2020), RAJIV GANDHI TPS U#1 (Target: 30-04-2022), RAJIV GANDHI TPS U#2 (Target: 28-02-2022), YAMUNA NAGAR TPS U#1 (Target: 31-12-2021), YAMUNA NAGAR TPS U#2 (Target: 31-10-2021)

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

NTPC

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: 31-12-2024), LALITPUR TPS U#2 (Target: 30-09- 2024), LALITPUR TPS U#3 (Target: 30-06-2024)
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: 31-10-2024), PRAYAGRAJ TPP U#2 (Target: 31-10- 2024), PRAYAGRAJ TPP U#3 (Target: 31-12-2024)
PSPCL	GH TPS (LEH.MOH.) U#1 (Target: 31-12-2024), GH TPS (LEH.MOH.) U#2 (Target: 31-12-2024), GH TPS (LEH.MOH.) U#3 (Target: 31-12-2024), GH TPS (LEH.MOH.) U#4 (Target: 31-12-2024), GGSSTP, Ropar U#3 (Target: 31-03- 2022), GGSSTP, Ropar U#4 (Target: 31-05-2022), GGSSTP, Ropar U#5 (Target: 31-07-2022), GGSSTP, Ropar U#6 (Target: 30-09-2022)

Rosa Power	
Supply	ROSA TPP Ph-I U#1 (Target: 31-12-2024), ROSA TPP Ph-I U#2 (Target: 31-12-2024), ROSA TPP Ph-I
Company	U#3 (Target: 31-12-2024), ROSA TPP Ph-I U#4 (Target: 31-12-2024)
RRVUNL	KOTA TPS U#5 (Target: 31-12-2022), KOTA TPS U#6 (Target: 31-12-2022), KOTA TPS U#7 (Target: 31- 12-2022), SURATGARH TPS U#1 (Target: 31-12-2024), SURATGARH TPS U#2 (Target: 31-12-2024), SURATGARH TPS U#3 (Target: 31-12-2024), SURATGARH TPS U#4 (Target: 31-12-2024), SURATGARH TPS U#5 (Target: 31-12-2024), SURATGARH TPS U#6 (Target: 31-12-2024), SURATGARH SCTPS U#7 (Target: 31-12-2024), SURATGARH SCTPS U#8 (Target: 31-12-2024), CHHABRA TPP U#1 (Target: 31-12-2024), CHHABRA TPP U#2 (Target: 31-12-2024), CHHABRA TPP U#3 (Target: 31-12-2024), CHHABRA TPP U#4 (Target: 31-12-2024), CHHABRA SCPP U#5 (Target: 31-12-2024), CHHABRA SCPP U#6 (Target: 31-12-2024), KALISINDH TPS U#1 (Target: 31-12-2024), KALISINDH TPS U#2 (Target: 31-12-2024)
Talwandi Sabo	TALWANDI SABO TPP U#1 (Target: 28-02-2021), TALWANDI SABO TPP U#2 (Target: 31-12-2020),
Power Ltd.	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#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)

1st Batch for Training Programme/Workshop on Protection Audit for Protection System Engineers

		Date : 28/03	Date : 28/03/2019		
No.	Name	DESIGNATION	ORGANIZATION		
1	Mr. Sameer Sobti	Dy. Manager (Electrical)	ADHPL		
2	Mr. M. A .Rafig	Manager (Electrical)	ADHPL		
3	Er. Ranbir Sharma	ADP& T Cell, BBMB, Panipat	BBMB		
4	Er. Maninder Singh	AD/P& T Cell, BBM B, Chandigarh	BBMB		
5	Ms Ramneet Chanana	Asstt Manger (Protection) Delhi Transco Std.	DELHI		
6	Shri Parveen Kumar	Asett. Managerti) Delhi Travisco Idd.	DELHI		
7	Shri Manoj Goyal	Deputy Manager(T)	IPGCL		
8	Shri Ranjit Singh	Deputy Manager	IPGCL		
9	Shri Irfan Ahmed	Director	NPC		
10	Shri K.P Madhu	Dy.Director	NPC		
11	Ēr. Aadil Hassan	JE DCP Office	J&K PDD		
12	Er. Fayaz Wani	JE EM & RE Kashmir	J&K PDD		
13	Er Rajbir Singh Walia	Add1 S.E. Protection & OS Division	PSTCL		

1st Batch for Training Programme/Workshop on Protection Audit for Protection System Engineers

14	Er Harvinder Singh	Sr XEN Protection Division	PSTCL
15	Er Sanjeeev Kumar	AEE Protection Division-	PSTCL
16	Shri Ravindra Gupta	AEN-I(MPT&S)	RVPN
17	ShriSuresh Chand Garg	AEN{MPT&S)	RVPN
18 -	Shri Anil Raghuvashi	Manager (O&M)	THDC
19	Shri Ashutosh Gairola	Manager (O&M)	THDC
20	Er. Manoj Prasad	EE, P. TPS, Sonebhadra	UPRVUNL
21	Er. Ramgyan Singh	EE, Parichha TPS, Jhansi	UPRVUNL
22	Shri Shrey Kumar	AEE Operation	NRPC
23	Shri Kaushik Panditrao	AE Protection	NRPC
24	Shri Jaganath Padi	Dy. Manager	NHPC
25	Shri Nitin Yadav	Manager	NRLDC
26	Shri Gaurav Singh	Asst Manager	NRLDC
27	Shri Anshula Sharma	Astt. Manager	PGCIL NR-2
28	Shri Saurabh Kumar	Astt. Manager	PGCIL NR-3
29	Shri Pawan Purbia	Aset -	PGCIL NR-1

30	Shri Y S Rana	Chief Manager	PGCIL NR-2
31	Er. Kanav Sandal	AE	HPPTCL
32	Er. Vikas Thakur	AE	HPPTCL
33	Er. Ashish Kumar	AE	HVPNL
34	Er. Kuldeep Singh Rana	AEE	HVPNL

	Annexure			Annexure
S. No	Name	Designation	Organization	Contact No
1	Er. Vikas Bangar	Dy. Director/PLC	BBMB, Chandigarh	9356079077
2	Er. Peyush Chaturvedi	AEE/Works	BBMB, Chandigarh	9992811777
3		Sr. Manager-Electrical Maint.		
5	Sh. Manoj Kumar Gupta	Dept.	JPL, Jhajjar	
4		Dy. Manager-Electrical Maint.		
4	Sh. Prabhat Mishra	Dept.	JPL, Jhajjar	
5	Sh. Rahul Bhushan Ambedkar	Sr. Manager (Electrical)	NHPC, Haryana	
6	Sh. Yogesh Jaiswal		POWERGRID NR-1	
7	Er. Rajbit Singh Walia	Addl. SE/Protection & OS Divn	PSTCL, Patiala	9646118223
8	Er. Harvinder Singh	Sr. XEN/Protection Divn	PSTCL, Jalandhar	9646118231
9	Er. Sanjeev Kumar	AEE/Protection Divn	PSTCL, Mohali	9646118275
10	Sh. Asim Baig	EE (T&C)	PTCUL, Rishikesh	
11	Sh. Jagbeer Singh	EE (T&C)	PTCUL, Haldwani	
12	Sh. Satyam Badala	Manager-Electrical	TSPL, Talwandi Sabo	
13	Sh. Manoj Kumar Gupta	Engineer-Electrical	TSPL, Talwandi Sabo	
14	Sh. Himanshu Pundir	Executive Engineer, Elect.	UPPTCL, Meerut	
14		Test& Commissioning Division		
15	Sh. Sushil Kumar Yadav	Executive Engineer, Elect.	UPPTCL, Gorakhpur	
15		Test& Commissioning Division		
16	Sh. Abu Zar	EE, HTPS	UPRVUNL, Harduaganj	9412753081
17	Sh. Manoj Yadav	AE, BTPS	UPRVUNL, Obra	9415903061
18	Sh. Mohsin Khan	Assistant Engineer (R&A)	UPSLDC	
19	Sh. Sunil Kumar Maurya	Assistant Engineer (R&A)	UPSLDC	
20	Sh. Avinash Sinha	Assistant Engineer (SO)	UPSLDC	
21	Sh. Abhishek Jain	Manager -EMD	APCPL -Jhajjar	9416212489
22	Sh. B. L. Yadav	AGM(OS-DBF)	NTPC	9650993044
23	Sh. Arun Kumar Thakur,	Manager	SJVNL	9418026922
24	Sh. Sanjeet Singh Parmar	Asstt. Manager	SJVNL	9418465432
25	Sh. Saumitra Mazumdar	SE (O)	NRPC	
26	Sh. B. Chandrasekhar	AE	NRPC	
27	Sh. Amit Gupta	Dy Manager	NRLDC	
28	Sh. Abhishek	Asst. Manager	NRLDC	
29	Sh. Manish Maurya	AEE (C)	NRPC	