



सत्यमेव जयते

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

संख्या: NRPC/OPR/106/01/2020/11062-11103

दिनांक: 23.11.2020

विषय: उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 177^{वीं} बैठक की खण्ड-अ में लिए गए निर्णयों का सार |

Subject: Gist of decisions taken in the Part-A of 177th OCC meeting of NRPC.

उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 177^{वीं} बैठक दिनांक 18.11.2020 एवं 19.11.2020 को आयोजित की गयी। उक्त बैठक की खण्ड-अ में लिए गए निर्णयों का सार **अनुलग्नक-1** में संलग्न है।

177th meeting of the Operation Co-ordination Sub-Committee of NRPC was held on 18.11.2020 and 19.11.2020. The Gist of the decisions taken in Part-A of this meeting are enclosed in **Annexure-I**.

संलग्नक: यथोपरि

(सौमित्र मजूमदार)
अधीक्षण अभियंता (प्रचालन)

सेवा में,
प्रचालन समन्वय उप-समिति के सभी सदस्य

Gist of decisions taken in the Part-A of 177th OCC Meeting dt. 18th & 19th Nov 2020

Agenda No. 1: Confirmation of Minutes

The comments submitted by NLDC were deliberated during the meeting and OCC decided to incorporate the amendments as suggested by NLDC with slight modifications. The amended para 3.4 of the minutes is as follows:

“After the receipt of the outage requests from indenting agencies by appointed date on RPC outage portal, the consolidated and final list of requests requiring approval of other RPCs would be forwarded to NLDC. Further, NLDC shall scrutinize the inter-regional request received and shall forward such outage request along with NLDC Comments to concerned RPCs for further deliberations. Based on the deliberation in respective RPCs, the outage would be either approved or disapproved by them. However, if the OCC of other RPCs is occurring before 05th (the appointed date for receipt of requests at NRPC), then responsibility of sending the outages to other RPC and its getting approved/deferred in the concerned RPCs would be on the indenting utilities.”

OCC approved the minutes of 176th OCC along with the above amendment.

Agenda No. 2.1: Power Supply Position (Provisional) for October 2020

• **Uttar Pradesh**

First week of October was warmer and humid due to weak monsoon which also led to an increase in irrigation load.

• **Rajasthan**

The Peak Demand for the month October 2020 was 12718 MW on dated 30th October 2020 and increased w.r.t. Anticipated Peak Demand by 20.4% because the agriculture load is being supplied in day hours, 2 blocks in phase manner.

• **Haryana**

Demand was predicted by considering rainfall during first week of October based on past experience. However, due to lack of rainfall in the period, demand was more than that anticipated.

• **Himachal Pradesh**

State of Himachal Pradesh experienced long dry spell along with reopening of schools and resumption of tourism in the state led to increase in demand.

All the states were advised to submit the reason for any deviation between the anticipated and provisional power supply position along with the Format-28 so as to facilitate healthy deliberation during the meeting.

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

The maintenance Programme of Generating units and transmission lines was deliberated in the forenoon session on 17.11.2020.

In the meeting, all States/Central Transmission utilities/licensees of NR were requested to submit their annual outage plan of transmission elements in the prescribed excel format for the FY 2021-22 to NRPC Secretariat in accordance with the provisions of Section 5(1) of CEA (Grid Standards) Regulations 2010 and the clause (c) of section 5.7.1 of Indian Electricity Grid Code (IEGC). It was intimated that excel format along with guidelines would be sent through email by 19.11.2020 and same can be accessed from NRPC portal also. The requisite information may be submitted in the prescribed excel format by email to seo-nrpc@nic.in and chandrasekhar.reddy@gov.in by 28th November 2020. The subject of the mail should be "Annual Transmission element outage planning 2021-22" followed by the name of the constituent.

Agenda No. 4: Anticipated Power Supply Position in Northern Region for December 2020

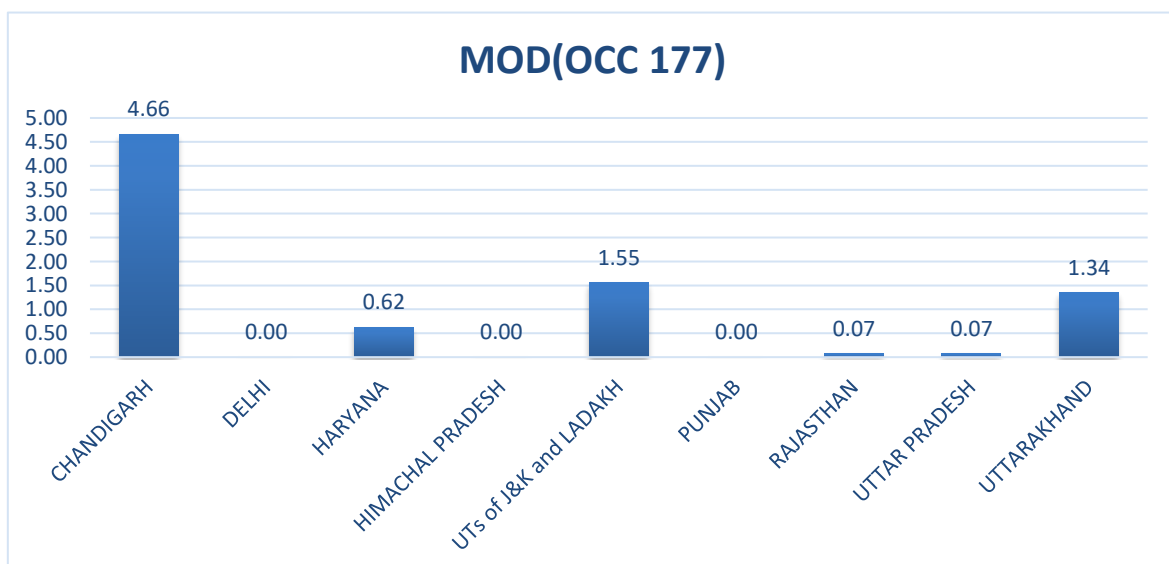
The updated anticipated Power Supply Position for December 2020 is as below:

State / UT	Availability / Requirement	Revised Energy (MU)	Revised Peak (MW)	Date of revision
CHANDIGARH	Availability	70	230	No revision submitted
	Requirement	120	270	
	Surplus / Shortfall	-50	-40	
	% Surplus / Shortfall	-41.7%	-14.8%	
DELHI	Availability	3735	5024	17-Nov-20
	Requirement	2100	5000	
	Surplus / Shortfall	1635	24	
	% Surplus / Shortfall	77.9%	0.5%	
HARYANA	Availability	5280	10050	No revision submitted
	Requirement	4030	6950	
	Surplus / Shortfall	1250	3100	
	% Surplus / Shortfall	31.0%	44.6%	
HIMACHAL PRADESH	Availability	921	1774	9-Nov-20
	Requirement	927	1750	
	Surplus / Shortfall	-6	24	
	% Surplus / Shortfall	-0.7%	1.4%	
J&K and LADAKH	Availability	1020	2970	No revision submitted
	Requirement	1660	2860	
	Surplus / Shortfall	-640	110	
	% Surplus / Shortfall	-38.6%	3.8%	

PUNJAB	Availability	6480	9170	No revision submitted
	Requirement	3600	6970	
	Surplus / Shortfall	2880	2200	
	% Surplus / Shortfall	80.0%	31.6%	
RAJASTHAN	Availability	8400	14100	No revision submitted
	Requirement	7970	13970	
	Surplus / Shortfall	430	130	
	% Surplus / Shortfall	5.4%	0.9%	
UTTAR PRADESH	Availability	9455	18000	9-Nov-20
	Requirement	8990	18000	
	Surplus / Shortfall	465	0	
	% Surplus / Shortfall	5.2%	0.0%	
UTTARAKHAND	Availability	1132	2110	6-Nov-20
	Requirement	1175	2250	
	Surplus / Shortfall	-43	-140	
	% Surplus / Shortfall	-3.7%	-6.2%	
NORTHERN REGION	Availability	36492	57800	
	Requirement	30572	52900	
	Surplus / Shortfall	5921	4900	
	% Surplus / Shortfall	19.4%	9.3%	

Agenda No. 5: Information about variable charges of all generating units in the Region

Members were informed about the average delay in submission of data of variable charges details on MERIT order portal during 15.10.2020 and 12.11.2020. The average delay is given below:



All SLDCs were requested to timely fill information on MERIT Portal.

Agenda No. 6: 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	Sep-2020 (Partial)
Haryana	Apr-2018	Sep-2020
Himachal Pradesh	Apr-2018	Sep-2020
Punjab	Apr-2018	Jul-2020
Rajasthan	Apr-2018	Aug-2020
Uttar Pradesh	Apr-2018	Aug-2020

In the meeting, it was again reiterated that the above information is being sent to CEA as per the instruction of Ministry of Power. All states were once again requested to submit the information monthly.

Considering that no information has been received from Uttarakhand, UTs of J&K, Ladakh and Chandigarh, they were again advised to submit the requisite data w.e.f. April 2018 as per the billed data information in the format specified in previous OCC meetings.

Agenda No. 7: System study for capacitor requirement in NR for the year 2019-20

In the meeting while deliberating the findings of the report submitted by CPRI, Punjab, Rajasthan, Delhi and Haryana stated that the capacitors considered in the study were far less than already installed.

States were clarified that the study was conducted by considering the PSSE file submitted by NRLDC and all the modelled capacitors were considered by CPRI in the study.

OCC decided that states shall first analyze the PSSE file considered by CPRI in their study and bring out the locations wherein capacitors are already installed in the network but are not modelled. Considering the same, all states shall submit their comments on the findings of the report so that CPRI could be reached out along with some solid factual data.

The PSSE file utilized by CPRI has been shared with all the concerned utilities via e-mail dated 19.11.2020.

Agenda No. 8: Automatic Demand Management System

Members were that nominations have been received from HVPN, UHBVN/DHBVN, PSPCL, RVPN (SLDC & Automation), UPPTCL, KESCO (DISCOM-UP), NPCL (DISCOM-UP).

In regard of other DISCOMs of UP, the nominations were again requested vide e-mail on 04.11.2020. Further, D.O. letters have been issued to Rajasthan DISCOMs (AVVNL, JVVNL & JDVVNL) for seeking the nomination for the committee.

OCC was apprised that as nominations have been received from all stakeholders of Haryana, first meeting would be conducted with Haryana. Other states were advised to pursue for submission of nominations from their respective DISCOMs.

Agenda No. 9: Follow-up of issues from various OCC Meetings - Status update

Updated status attached at **Annexure-A.II.**

Agenda No. 10: Agenda cum Report on failure of 400/220/33kV 150 MVA, TELK make Transformer T-5 (Y-phase of ICT-2 bank) at BBMB Panipat (agenda by POWERGRID)

Members were briefed about the minutes of the meeting held between BBMB and POWERGRID (annexed in the agenda).

OCC considered the findings and accepted the requested of POWERGRID to condone the outage of ICT bank-II on failure of 150 MVA, 400/220/33 kV, Y phase (T5) of ICT-II bank of 400 kV BBMB, Panipat.

Agenda No. 11: Availability for planned outages of Transmission Licensees to facilitate construction of projects of NHAI/ DFCC/ DMRC/ UPEDC/ Railways etc.

OCC clarified the representative of Indian Railways present in the meeting that the prevailing practice of NRPC of not providing deemed availability in cases of planned outages of transmission lines to facilitate construction of projects of NHAI/ DFCC/ DMRC/ UPEDC/ Railways etc. were based on the CERC tariff Regulations and decision taken in past OCC and TCC meetings. In case Railways require any dispensation to the provisions of Terms & Conditions of Tariff Regulations, then they may approach CERC as the Commission is the competent authority in this regard.

On a query raised by Railways on the charges raised by M/s ATL for the work, the ATL representative stated that their annual overhaul which were planned along with the works of Railways may be avoided during this outage for the execution of construction work of Railways for optimizing the outage period.

OCC was of the view that all efforts should be made to optimize the outage period and advised ATL to submit the revised schedule for the outage for the approval of OCC.

Railway and ATL were advised to settle the financial issue regarding the payment of charges bilaterally or take up the matter of deemed availability before the Hon'ble CERC.

Agenda No. 12: Review of Delhi islanding Scheme

Members were briefed about the deliberations held in the meeting held on 29.10.2020. As per the agreed roadmap in the meeting Delhi representative updated that the issue of load-wise bifurcation i.e. super critical, critical and essential loads would be done in upcoming state OCC meeting. Further, regarding

the network modelling and getting the study conducted, it was informed that the issue was being pursued and CPRI may be roped in for the same.

Delhi was advised to take up the matter with utmost priority and keep NRPC and NRLDC informed about the updated status.

Agenda No. 13: Supply of uninterrupted power to UT of Ladakh (Table agenda)

OCC members were briefed that Secretary, PDDNRE, UT of Ladakh vide D.O Letter dated 27.10.2020 addressed to Secretary, MoP has mentioned about the issue of power deficit in UT of Ladakh during the winter season. The scenario is presented in the below table:

Total capacity generation during summer	Generation in winter	Demand in winter	Shortage to be met through grid
97.35 MW	18 MW	53 MW	35 W

The power which is to be met through grid is to be supplied through Srinagar Leh Transmission System (SLTS) comprising of Srinagar- Alusteng- Drass- Kargil- Leh sections. In the DO letter, Secretary, PDDNRE, UT of Ladakh has sought directions to PGCIL, PDD J&K to carry out O&M activity for the said transmission system and ensure reliability of the line for adequate transmission of power to Ladakh.

POWERGRID stated that operation & maintenance activities of the section of Srinagar Leh Transmission System under their maintenance is being carried out as per schedule and so far no tripping has been reported in the section of transmission system. **POWERGRID** was advised by OCC forum to ensure reliability of the transmission system in the upcoming winter season.

NRLDC highlighted the lack of real time data visibility from Ziankote and Alusteng which creates hurdle for the operator in managing the system and stressed for making it available at the earliest. Further, **NRLDC** also highlighted the necessity of formation of SLDC for UT of Ladakh which would facilitate single point source of contact for **NRLDC** for operation activities.

There was no representation from **JKPDD** in the meeting.

Considering the above, OCC advised all the stakeholders, viz. **POWERGRID**, **JKPDD**, **NRLDC** to submit their action plan and issues involved for ensuring reliability of power supply to UT of Ladakh by 27.11.2020 so that the same information could be furnished to CEA timely.

Follow-up of issues of previous OCC meetings

1	Sub-stations likely to be commissioned by next two years.	All the concerned states had been requested in past OCC meetings to submit the details of the downstream network associated specially with POWERGRID substations along with the action plan of their proposed / approved networks.	Status details of downstream networks mentioned in Annexure-A.I.I of Agenda.																																
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="914 723 1514 1171"> <tr><td>⊙</td><td>CHANDIGARH</td><td>Sep-2019</td></tr> <tr><td>⊙</td><td>DELHI</td><td>Sep-2019</td></tr> <tr><td>⊙</td><td>HARYANA</td><td>Jul-2020</td></tr> <tr><td>⊙</td><td>HP</td><td>Jul-2020</td></tr> <tr><td>⊙</td><td>J&K and LADAKH</td><td>Not Available</td></tr> <tr><td>⊙</td><td>PUNJAB</td><td>Not Available</td></tr> <tr><td>⊙</td><td>RAJASTHAN</td><td>Sep-2020</td></tr> <tr><td>⊙</td><td>UP</td><td>Aug-2020</td></tr> <tr><td>⊙</td><td>UTTARAKHAND</td><td>Oct-2020</td></tr> </table> <p>All States/UTs were requested to furnish updated status on monthly basis.</p>			⊙	CHANDIGARH	Sep-2019	⊙	DELHI	Sep-2019	⊙	HARYANA	Jul-2020	⊙	HP	Jul-2020	⊙	J&K and LADAKH	Not Available	⊙	PUNJAB	Not Available	⊙	RAJASTHAN	Sep-2020	⊙	UP	Aug-2020	⊙	UTTARAKHAND	Oct-2020			
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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”.	<p>Data upto following months, received from various states / UTs:</p> <table border="1" data-bbox="914 1473 1514 1966"> <tr><td>⊙</td><td>CHANDIGARH</td><td>Not Available</td></tr> <tr><td>⊙</td><td>DELHI</td><td>Oct-2020</td></tr> <tr><td>⊙</td><td>HARYANA</td><td>Dec-2019</td></tr> <tr><td>⊙</td><td>HP</td><td>Jul-2020</td></tr> <tr><td>⊙</td><td>J&K and LADAKH</td><td>Not Available</td></tr> <tr><td>⊙</td><td>PUNJAB</td><td>Dec-2019</td></tr> <tr><td>⊙</td><td>RAJASTHAN</td><td>Sep-2020</td></tr> <tr><td>⊙</td><td>UP</td><td>Sep-2020</td></tr> <tr><td>⊙</td><td>UTTARAKHAND</td><td>Jun-2020</td></tr> <tr><td>⊙</td><td>BBMB</td><td>Jun-2020</td></tr> </table>			⊙	CHANDIGARH	Not Available	⊙	DELHI	Oct-2020	⊙	HARYANA	Dec-2019	⊙	HP	Jul-2020	⊙	J&K and LADAKH	Not Available	⊙	PUNJAB	Dec-2019	⊙	RAJASTHAN	Sep-2020	⊙	UP	Sep-2020	⊙	UTTARAKHAND	Jun-2020	⊙	BBMB	Jun-2020
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Follow-up of issues of previous OCC meetings

			All States/UTs were requested to furnish updated status on monthly basis.		
4	Status of FGD installation vis-à-vis installation plan at identified TPS	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. Further, progress of FGD installation work on monthly basis is monitored in OCC meetings.	Status of the information submission (month) from states / utilities is as under:		
			☉	HARYANA	Not Available
			☉	PUNJAB	Oct-2020
			☉	RAJASTHAN	Oct-2020
			☉	UP	Oct-2020
			☉	NTPC	Aug-2020
5	Reactive compensation at 220 kV/ 400 kV level at 15 substations				
	State / Utility	Substation	Reactor	Status	
i	POWERGRID	Kurukshetra	500 MVar TCR	Anticipated commissioning: Jan-Mar'2021	
ii	DTL	Peeragarhi	1x50 MVar at 220 kV	Purchase Order awarded on 29th Sept.2020 with completion period of 12 months	
iii	DTL	Harsh Vihar	2x50 MVar at 220 kV	Purchase Order awarded on 29th Sept.2020 with completion period of 12 months	
iv	DTL	Mundka	1x125 MVar at 400 kV & 1x25 MVar at 220 kV	Bid opened on 21st Sept.2020. Bid under technical evaluation.	
v	DTL	Bamnauli	2x25 MVar at 220 kV	Bid opened on 21st Sept.2020. Bid under technical evaluation.	

Follow-up of issues of previous OCC meetings

vi	DTL	Indraprastha	2x25 MVA at 220 kV	Bid opened on 21st Sept.2020. Bid under technical evaluation.
vii	DTL	Electric Lane	1x50 MVA at 220 kV	Bid opened on 21st Sept.2020. Bid under technical evaluation.
viii	PUNJAB	Dhuri	1x125 MVA at 400 kV & 1x25 MVA at 220 kV	Bids opening date extended due to less participation. In 169th OCC, bids opening date mentioned as 26.03.2020.
ix	PUNJAB	Nakodar	1x25 MVA at 220 kV	Bids opening date extended due to less participation. In 169th OCC, bids opening date mentioned as 26.03.2020.
x	PTCUL	Kashipur	1x125 MVA at 400 kV	Already submitted to PSDF. On hold due to policy decision
xi	RAJASTHAN	Akal	1x25 MVA	Price Bid opened on dt 05.11.2020 & statement is under check
xii	RAJASTHAN	Bikaner	1x25 MVA	Price Bid opened on dt 05.11.2020 & statement is under check
xiii	RAJASTHAN	Suratgarh	1x25 MVA	Price Bid opened on dt 05.11.2020 & statement is under check
xiv	RAJASTHAN	Barmer	1x25 MVA	Agreement signed on dt. 22.06.2020. Bank account is opened & further processing
xv	RAJASTHAN	Jodhpur	1x125 MVA	Agreement signed on dt. 22.06.2020. Bank account is opened & further processing

ANNEXURE-A.I.I

Sl. No.	Substation	Downstream network bays	Commissioning status of ICTs / Bays	Planned 220 kV system	Revised Target	Remarks
1	400/220 kV, 3x315 MVA Samba	2 nos. bays utilized under ISTS. Balance 4 nos. to be utilized	<u>Commissioning of ICT</u> 1st & 2nd - Mar'13 3rd - Oct'16 <u>Commissioning of Bays</u> Mar'13	LILO of 220 kV Bishnha – Hiranagar D/c line. Original schedule - Nov'2019	Not Available	Information not submitted
				220 kV D/c Samba (PG) – Samba (JKPDD) approved in 1st NRSCT.	Not Available	Information not submitted
2	400/220kV, 2x315 MVA New Wanpoh	6 Nos. of 220 kV bays to be utilized	<u>Commissioning of ICT</u> Jul'14 <u>Commissioning of Bays</u> Jul'14	220 kV New Wanpoh - Mirbazar D/c line	Not Available	Information not submitted
				220 kV Alusteng - New Wanpoh Line	Not Available	Information not submitted
3	400/220 kV, 2x315 MVA Dehradun	4 bays to be utilised.	<u>Commissioning of ICT</u> <u>Commissioning of Bays</u> Jan'17	220 kV Dehradun-Jhajra line	Nov'21	No further update.
4	Shahjahanpur, 2x315 MVA 400/220 kV	4 Nos. of 220 kV bays to be utilized	<u>Commissioning of ICT</u> <u>Commissioning of Bays</u> Jun/Sep'14	Shahjahanpur-Azimpur D/C line	Dec'20	No further update.
				220 kV D/C Shahjahanpur-Gola line	Dec'20	No further update.
5	Hamirpur 400/220 kV 2x 315 MVA S/s (Augmentation by 3x105 MVA ICT)	2 nos. bays utilized under ISTS. Balance 6 nos to be utilized	<u>Commissioning of ICT</u> 1st -Dec'13 2nd - Mar'14 3rd - Mar'19 <u>Commissioning of Bays</u> 4 bays - Dec'13 2 bays - Mar'14 2 bays - Mar'19	220 kV D/C Hamirpur-Dehan line. Original schedule: Dec' 2020	Dec'20	No further update.

Sl. No.	Substation	Downstream network bays	Commissioning status of ICTs / Bays	Planned 220 kV system	Revised Target	Remarks
6	Sikar 400/220kV, 1x 315 MVA S/s	2 Nos. of 220 kV bays	Commissioned (date not available)	Not available	Dec'20	Work order for utilization of 2 No. of bays placed on dt. 13.04.2020 to M/s A to Z Ltd. Survey profile approved on dt.14.09.2020 by SE(T&C), RVPN, Sikar. Firm requested to start the work but firm has not started Work yet. Delay is expected
7	Bhiwani 400/220kV S/s	6 nos. of 220kV bays	Commissioned (date not available)	220kV Bhiwani (PG) - Isherwal (HVPNL) D/c line	Nov'20	Execution delayed due to impact of COVID-19. Expected by March 2021.
8	400/220kV Tughlakabad GIS	10Nos. of 220kV bays	Commissioned (date not available)	RK Puram – Tughlakabad (UG Cable) 220kv D/c line	Mar'23	Tender opened. Under Bid evaluation.
				Okhla – Tughlakabad 220kv D/c line	Not Available	Commissioned. Jan 2019
				Mehrauli – Tughlakabad 220kv D/c line	Not Available	Commissioned. Oct 2018
				BTPS – Tughlakabad 220kv D/c line	Not Available	Commissioned. Oct 2018
				BTPS – Tughlakabad 220kv D/c line	Not Available	Tender opened. Under Bid evaluation.
				Masjid Mor – Tughlakabad 220kv D/c line	Dec'21	Tender opened. Under Bid evaluation.

Sl. No.	Substation	Downstream network bays	Commissioning status of ICTs / Bays	Planned 220 kV system	Revised Target	Remarks
9	400/220kV Kala Amb GIS (TBCB)	6 Nos. of 220kV bays	Commissioned in Jul'2017	220kV D/c line from Kala Amb 400/220kV S/s to 220/132kV Kala Amb S/s	Dec'21	Details for utilizing remaining 4 bays is not available