## National Load Despatch Centre Total Transfer Capability for November 2020

Issue Date: 28th August 2020

Issue Time: 1800 hrs

Revision No. 1

						Long Term	Margin	Changes	
Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Access (LTA)/ Medium Term Open Access (MTOA) #	Available for Short Term Open Access (STOA)	in TTC w.r.t. Last Revision	Comments
	1st November	00-06				195	1805		
NR-WR*	2020 to 30th	06-18	2500	500	2000	1281	719		
	November 2020	18-24				195	1805		
		00-06	18150	500	17650	10268	7382	950	
	1 of Moorensham		17200**		16700**	9318**			Devision in TTC/ATC due to
WR-NR*	1st November 2020 to 30th November 2020	06-18	18150 17200**	500	17650 16700**	10657 9707**	6993	950	Revision in TTC/ATC due to commissioning of HVDC Champa - Kurukshetra Pole-4
		18-24	18150 17200**	500	17650 16700**	10268 9318**	7382	950	
	1st November	00-06	2000		1800	193	1607		
NR-ER*	2020 to 30th November 2020	06-18 18-24	2000 2000	200	1800 1800	303 193	1497 1607	-	
ER-NR*	1st November 2020 to 30th November 2020	00-24	6250	300	5950	4066	1884	1000	Revision in TTC/ATC due to change in HVDC APD-Agra power order and load-generation balance.
W3-ER	1st November 2020 to 30th	00-24				No limit i	s being specified.		
W3-ER	November 2020								
ER-W3	November 2020 1st November 2020 to 30th November 2020	00-24				No limit i	s being specified.		
	1st November 2020 to 30th	00-24	6950		6450	No limit i	s being specified.		
	1st November 2020 to 30th November 2020 1st November 2020 to 30th	00-05 05-22	6950	500	6450	No limit i 4073	2377 2377		
ER-W3	1st November 2020 to 30th November 2020 1st November	00-05		500 400			2377		
ER-W3 WR-SR <sup>^</sup>	1st November         2020 to 30th         November 2020	00-05 05-22 22-24	6950 6950		6450 6450	4073	2377 2377 2377 2377		
ER-W3 WR-SR <sup>^</sup>	Ist November         2020 to 30th         November 2020	00-05 05-22 22-24 00-24	6950 6950		6450 6450	4073 550	2377 2377 2377 3650		
ER-W3 WR-SR^ SR-WR *	1st November         2020 to 30th         November 2020         1st November 2020         Ist November 2020	00-05 05-22 22-24 00-24 00-06	6950 6950 4600	400	6450 6450 4200	4073 550 2673	2377 2377 2377 3650 3027		
ER-W3 WR-SR^ SR-WR *	Ist November         2020 to 30th         November 2020	00-05 05-22 22-24 00-24 00-06 06-18	6950 6950 4600	400	6450 6450 4200	4073 550 2673 2758 2673	2377 2377 2377 3650 3027 2942		
ER-W3 WR-SR^ SR-WR* ER-SR^	Ist November 2020 to 30th November 2020Ist November 2020 to 30thOutput DescriptionIst November 2020 to 30th	00-05 05-22 22-24 00-24 00-06 06-18 18-24	6950 6950 4600	400	6450 6450 4200	4073 550 2673 2758 2673	2377 2377 2377 3650 3027 2942 3027		
ER-W3 WR-SR^ SR-WR* ER-SR^	Ist November 2020 to 30th November 2020Ist November 2020 to 30thOutput DescriptionIst November 2020 to 30th	00-05 05-22 22-24 00-24 00-06 06-18 18-24 00-24 00-24	6950 6950 4600 5950 1200 1200	400	6450 6450 4200 5700	4073 550 2673 2758 2673 No limit i 474 474	2377 2377 2377 3650 3027 2942 3027 s being Specified. 681 681		Revision in STOA margin due to the
ER-W3 WR-SR^ SR-WR* ER-SR^	Ist November         2020 to 30th         November 2020         Ist November         2020 to 30th         November 2020         Ist November 2020	00-05 05-22 22-24 00-24 00-06 06-18 18-24 00-24 00-22	6950 6950 4600 5950	400	6450 6450 4200 5700 1155 1155 1225	4073 550 2673 2758 2673 No limit i 474	2377 2377 2377 3650 3027 2942 3027 s being Specified. 681 681 751		Revision in STOA margin due to the following:-
ER-W3 WR-SR^ SR-WR *	Ist November         2020 to 30th         November 2020         Ist November         2020 to 30th         November 2020         Ist November 2020	00-05 05-22 22-24 00-24 00-06 06-18 18-24 00-24 00-24 00-24 00-02 02-07 07-12 12-17 17-23	6950 6950 4600 5950 5950 1200 1200 1270 1300 1000	400	6450 6450 4200 5700 1155 1155 1225 1255 955	4073 550 2673 2758 2673 No limit i 474 474 474 474 474	2377 2377 2377 3650 3027 2942 3027 s being Specified. 681 681 751 781 481		following:- a) Increase in allocation from
ER-W3 WR-SR^ SR-WR *	Ist November         2020 to 30th         November 2020         Ist November         2020 to 30th         November 2020         Ist November 2020	00-05 05-22 22-24 00-24 00-24 00-06 06-18 18-24 00-24 00-24 00-24 00-02 02-07 07-12 12-17 17-23 23-24	6950         6950         4600         5950         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200	400	6450 6450 4200 5700 1155 1155 1225 1255 955 1155	4073 550 2673 2758 2673 No limit i 474 474 474 474 474 474	2377 2377 2377 3650 3027 2942 3027 3027 s being Specified. 681 681 751 781 481 681		following:- a) Increase in allocation from Kameng HEP to UP, Haryana,
ER-W3 WR-SR^ SR-WR *	Ist November         2020 to 30th         November 2020	00-05 05-22 22-24 00-24 00-06 06-18 18-24 00-24 00-24 00-24 00-02 02-07 07-12 12-17 17-23	6950 6950 4600 5950 5950 1200 1200 1270 1300 1000	400	6450 6450 4200 5700 1155 1155 1225 1255 955	4073 550 2673 2758 2673 No limit i 474 474 474 474 474	2377 2377 2377 3650 3027 2942 3027 s being Specified. 681 681 751 781 481		following:- a) Increase in allocation from
ER-W3	Ist November         2020 to 30th         November 2020         Ist November         1st November         1st November         1st November         1st November	00-05 05-22 22-24 00-24 00-24 00-06 06-18 18-24 00-24 00-24 00-24 00-02 02-07 07-12 12-17 17-23 23-24 00-02 02-07 07-12	6950 6950 4600 5950 5950 1200 1200 1200 1200 1200 1200 1200 2300 23	400 250 45	6450 6450 4200 5700 1155 1155 1255 1255 1255 1155 2255 22	4073 550 2673 2758 2673 No limit i 474 474 474 474 474 474 474 474 474 47	2377 2377 2377 3650 3027 2942 3027 2942 3027 s being Specified. 681 681 681 751 781 481 681 2213 2213 2213 2263		following:- a) Increase in allocation from Kameng HEP to UP, Haryana, Chhattisgarh and Goa b) Revision in LTA/allocation from
ER-W3 WR-SR^ SR-WR *	Ist November         2020 to 30th         November 2020	00-05 05-22 22-24 00-24 00-24 00-06 06-18 18-24 00-24 00-24 00-24 00-02 02-07 07-12 12-17 17-23 23-24 00-02 02-07	6950           6950           4600           5950           1200           1200           1200           1200           1200           1200           1200           1200           1200           1200           1200           1200           1200           2300           2300	400	6450 6450 4200 5700 1155 1155 1225 1255 955 1155 2255 2255	4073 550 2673 2758 2673 No limit i 474 474 474 474 474 474 474 474 474 47	2377 2377 2377 3650 3027 2942 3027 2942 3027 s being Specified. 681 681 681 751 781 481 681 2213 2213		following:- a) Increase in allocation from Kameng HEP to UP, Haryana, Chhattisgarh and Goa

## National Load Despatch Centre Total Transfer Capability for November 202

			Total Tran	sfer Capabi	ility for Nov	ember 2020				
Issue Date:	28th August 2	020	Issu	e Time: 180	00 hrs	Revision No. 1				
Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments	
W3 zone Injection	1st November 2020 to 30th November 2020	00-24	No limit is be	ing specified (	(In case of any	constraints appearin	ng in the system, V	V3 zone export	would be revised accordingly)	
	ATC of S1-(S2& Ionthly ATC.	S3) corrid	or, Import of	S3(Kerala), Iı	mport of Punj	ab and Import of 1	DD & DNH is up	loaded on NLI	DC website under Intra-Regional	
* Fifty Perce First Come F		er flow ben	efit on account	t of LTA/MTO	A transactions	in the reverse direc	tion would be con	sidered for adv	anced transactions (Bilateral &	
	•	•	•		-		of scheduling, me	tering and acco	ounting and 950 MW ex-bus	
<ul> <li>2) W3 comp</li> <li>a) Chattisgarl</li> <li>f) BALCO, g</li> <li>and any other</li> <li># The figure</li> <li>Fuel shortag</li> <li>In the eventue</li> <li>In case of T1</li> <li>1) The TTC</li> </ul>	generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity. 1) \$1 comprises of Telangana, AP and Karnataka; \$2 comprises of Tamil Nadu and Puducherry; \$3 comprises Kerala 2) W3 comprises of the following regional entities : <ul> <li>a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I &amp; Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak</li> <li>f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) Korba, j) Sipat, k) KSK Mahanadi, L)DB Power, m) KWPCL, n)Vandana Vidyut o)RKM, p)GMR Raikheda, q)Ind Barath</li> <li>and any other regional entity generator in Chhattisgarh</li> </ul> # The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissionned the LTA/MTOA utilized would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC. In case of TTC Revision due to any shutdown : 1) The TTC value will be revised to normal values after restoration of shutdown. 2) The TTC value will be revised to normal values after shoutdown is not being availed in real time.									
Real Time T	TC/ATC revisions	s are uploa	ded on POSOC	CO/NLDC "Ne	ews Update" (F	lasher) Section				
-	<sup>A</sup> Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of WR-SR and ER-SR corridor has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.									
	^In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka SLDC by taking appropriate measures.									
SR-WR TTC Kudgi TPS.	C/ATC figures hav	e been cale	culated conside	ering 01 unit (8	800 MW) at Ku	udgi TPS in service.	. The figures are su	bject to change	e with change in generation at	
-	ort of NR TTC ha Pariccha TPS.	as been cal	culated conside	ering generatio	on at Pariccha T	TPS as 350 MW. TT	ГС figures are subj	ect to change w	vith significant change in	

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
		00-06	24400 23450**		23600 22650**	14334 13384**	9266	1950	
	1st November 2020 to 30th November 2020	06-09	23450**	-	23600 22650**	14723 13773**	8877	1950	a) Revision in TTC/ATC due to commissioning of HVDC
NR <sup>*</sup>		09-17	24400 23450**	800	23600 22650**	14723 13773**	8877	1950	Champa - Kurukshetra Pole-4 b) Revision in TTC/ATC due to change in HVDC APD-Agra
		17-18	24400 23450**		23600 22650**	14723 13773**	8877	1950	power order and load-generation
		18-24	24400 23450**		23600 22650**	14334 13384**	9266	1950	
		00-02	1200		1155	474	681		
	1st November	02-07	1200		1155	474	681		Revision in STOA margin due to
NER <sup>*</sup>	2020 to 30th	07-12	1270	45	1225	474	751		revision in LTA/allocation from
	November 2020	12-17	1300	-	1255	474	781		GIWEL, Bhuj (Wind) and
		17-23 23-24	1000 1200		955 1155	474 474	481 681		Mangdechu HEP to Assam
WR <sup>*</sup>		20 21	1200				001		
WK									
SR <sup>*#</sup>	1st November	00-06	12900		12150	6746	5404		
CT T * II	2020 to 30th	06-18	12900	750	12150	6831	5319		

\* Fifty Percent (50 % ) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

\*\*Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

\* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio:

Margin in Simultaneous import of NR = A WR-NR ATC =B ER-NR ATC = C

Margin for WR-NR applicants = A \* B/(B+C)Margin for ER-NR Applicants = A \* C/(B+C)

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

#Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of SR Import has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.

In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka by taking appropriate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
	1st November	00-06	4500		3800	388	3412		
NR*	2020 to 30th	06-18	4500	700	3800	1584	2216		
	November 2020	18-24	4500		3800	388	3412		
	1st November 2020 to 30th	00-02	2300	45	2255	42	2213		
		02-07	2300		2255	42	2213		
NED*		07-12	2350		2305	42	2263		
NER*		12-17	2330		2285	42	2243		
	November 2020	17-23	2530		2485	42	2443		
		23-24	2300		2255	42	2213		
WR*									
WA.									
SR*^	1st November 2020 to 30th November 2020	00-24	3700	400	3300	1150	2150		

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

^SR Export TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

	Constraints (Corridor wise)	Applicable Revisions
Corridor	Constraint	Applicable Revisions
WR-NR		Rev 0 to 1
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev 0 to 1
ER-NR	<ol> <li>N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt.</li> <li>N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt.</li> <li>N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.</li> </ol>	Rev 0 to 1
	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	
WR-SR and ER-	n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	Rev 0 to 1
SR	Low Voltage at Gazuwaka (East) Bus.	
SR-WR	a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Rev 0 to 1
ER-NER	<ul> <li>a) N-1 contingency of 400 kV Bongaigaon - Azara line</li> <li>b) High Loading of 220 kV Salakati - BTPS D/C</li> </ul>	Rev 0 to 1
NER-ER	<ul> <li>a) N-1 contingency of 400 kV Silchar- Azara line</li> <li>b) High Loading of 400 kV Silchar-Killing Line</li> </ul>	Rev 0 to 1
W3 zone Injection		Rev 0 to 1

## Limiting Constraints (Simultaneous)

			Applicable Revisions
NR	Import	<ol> <li>N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt.</li> <li>N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt.</li> <li>N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.</li> <li>N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT</li> </ol>	Rev 0 to 1 Rev 0 to 1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev 0 to 1
NER	Import	<ul> <li>a) N-1 contingency of 400 kV Bongaigaon - Azara line</li> <li>b) High Loading of 220 kV Salakati - BTPS D/C</li> </ul>	Rev 0 to 1
NEK	Export	<ul> <li>a) N-1 contingency of 400 kV Silchar- Azara line</li> <li>b) High Loading of 400 kV Silchar-Killing Line</li> </ul>	Rev 0 to 1
SR	Import	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt Low Voltage at Gazuwaka (East) Bus	Rev 0 to 1
	Export	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Rev 0 to 1

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th August	Whole Month	Revision in STOA margin due to the following:- a) Increase in allocation from Kameng HEP to UP, Haryana, Chhattisgarh and Goa b) Revision in LTA/allocation from GIWEL, Bhuj (Wind) and Mangdechu HEP to Assam	ER-NER/NER- ER/Import and Export of NER
	2020		Revision in TTC/ATC due to:- a) Commissioning of HVDC Champa - Kurukshetra Pole-4 b) Change in HVDC APD-Agra power order and load- generation balance.	WR-NR/ER- NR/Import of NR

## National Load Despatch Centre Total Transfer Capability for November 2020

ASSUN	IPTIONS IN BASECASE					
				Month : November'2020	0	
S.No.	Name of State/Area		Load	Generation		
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
Ι	NORTHERN REGION					
1	Punjab	6462	5238	2840	2783	
2	Haryana	7055	5863	1291	1291	
3	Rajasthan	10772	8591	6466	6465	
4	Delhi	4390	2984	672	672	
5	Uttar Pradesh	15455	15223	8388	8216	
6	Uttarakhand	1586	1453	572	500	
7	Himachal Pradesh	1546	1339	242	224	
8	Jammu & Kashmir	1885	1674	103	0	
9	Chandigarh	239	140	0	0	
10	ISGS/IPPs	21	20	17492	10342	
	Total NR	49409	42527	38066	30493	
П	EASTERN REGION					
1	Bihar	5270	3543	384	344	
2	Jharkhand	1319	897	343	353	
3	Damodar Valley Corporation	2778	2497	4539	3736	
4	Orissa	3510	2815	2940	2400	
5	West Bengal	6243	4932	4120	3510	
6	Sikkim	112	44	0	0	
7	Bhutan	169	167	410	310	
8	ISGS/IPPs	-169	-167	12601	8839	
	Total ER	19231	14729	25336	19491	
111	WESTERN REGION					
1	Maharashtra	15755	12169	11328	8384	
2	Gujarat	14507	10549	10695	8989	
3	Madhya Pradesh	8975	7585	2837	2894	
4	Chattisgarh	3209	2762	1744	1675	
5	Daman and Diu	312	279	0	0	
6	Dadra and Nagar Haveli	777	727	0	0	
7	Goa-WR	526	406	0	0	
8	ISGS/IPPs	4294	3129	36705	29913	
•	Total WR	48355	37606	63309	51855	

S.No.	Name of State/Area		Load	Generation		
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
IV	SOUTHERN REGION					
1	Andhra Pradesh	8576	5276	7951	5986	
2	Telangana	11920	10877	5548	4648	
3	Karnataka	8486	4761	6172	3342	
4	Tamil Nadu	13826	10812	6353	5252	
5	Kerala	3710	2288	1623	215	
6	Pondy	328	324	0	0	
7	Goa-SR	51	51	0	0	
8	ISGS/IPPs	0	0	13717	10412	
	Total SR	46898	34388	41363	29856	
V	NORTH-EASTERN REGION					
1	Arunachal Pradesh	104	65	12	8	
2	Assam	1230	938	295	245	
3	Manipur	181	86	0	0	
4	Meghalaya	297	227	272	231	
5	Mizoram	111	66	52	34	
6	Nagaland	101	81	14	14	
7	Tripura	238	142	73	71	
8	ISGS/IPPs	145	81	2435	2194	
	Total NER	2406	1686	3153	2796	
	Total All India	166155	130855	171228	134491	