## National Load Despatch Centre Total Transfer Capability for October 2021

Issue Date: 28th September, 2021 Issue Time: 1700 hrs Revision No. 6

	20th Septemb		2550	ic Time. 170				CVISION 140	·· •		
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				378	1622				
NR-WR*	1st October 2021 to 31st October 2021	06-18	2500	500	2000	956	1044		Revised STOA margin due to discontinuation of 250 MW MTOA from ACSEPL to Madhya Pradesh		
		18-24				378	1622				
			19500		18500	11362					
		00-06	18550**	1000	17550**	10412**	7138				
WR-NR*	1st October 2021 to 31st	06-18	19500	1000	18500	11751	6749		Revised STOA margin due to a) operationalization of new LTA OF 73 MW from Tuticorin-BETAMWIND to UPPCL		
W.F.IVK	October 2021	00-18	18550**	1000	17550**	10801**	0749		b) operationalization of new LTA OF 10 MW from Tuticorin-IWISL to Haryana		
			19500		18500	11362					
		18-24	18550**	1000	17550**	10412**	7138				
	1st October	00-06	2000		1800	93	1707		Revised STOA margin due to		
NR-ER*	2021 to 31st	06-18	2000	200	1800	1458	342		a) operationalization of new LTA of 250 MW from RSWPL3_FTG2 to BSPHCL		
	October 2021	18-24	2000		1800	93	1707		b) operationalization of new LTA of 300 MW from AP43PL_BKN to Odisha		
ER-NR*	1st October 2021 to 31st October 2021	00-24	5900	400	5500	4372	1128				
W3-ER	1st October 2021 to 31st October 2021	00-24						No limit is	is being specified.		
ER-W3	1st October 2021 to 31st October 2021	00-24						No limit is	is being specified.		
	1st October	00-05	10350		9700		5820		Revised STOA margin due to		
WR-SR	2021 to 31st	05-22	10350	650	9700	3880	5820		a) operationalization of new LTA of 106 MW from Fatehgarh-II Solar to Telangana		
	October 2021 1st October	22-24	10350		9700		5820		b) operationalization of new LTA of 176 MW from Bhadla-II Solar to Telangana  Revised STOA margin due to		
SR-WR *	2021 to 31st October 2021	00-24	4600	400	4200	884	3316		a) Increase LTA by 6 MW from BETAM to UP (NR) b) Increase LTA by 15 MW from Spring Energy, Pugalur to UP (NR)		
	1st October	00-06				2672	2778				
ER-SR <sup>△</sup>	2021 to 31st	06-18	5800	350	5450	2757	2693				
	October 2021	18-24				2672	2778		_		
SR-ER *	1st October 2021 to 31st October 2021	00-24						No limit is	s being Specified.		
		00-02	810		765	455	310				
	1st October	02-07	810		765	455	310				
ER-NER*	2021 to 31st	07-12 12-18	805 820	45	760 775	455 455	305 320				
	October 2021	18-22	610		565	455	110				
		22-24	810 3280		765 3235	455	310 3154				
		00-02 02-07	3280 3280		3235	81 81	3154 3154				
NER-ER*	1st October 2021 to 31st	07-12	3230	45	3185	81	3104		Revised STOA margin due to discontinuation of 50 MW MTOA Arunachal Pradesh to NPCL(UI		
LINER	October 2021	12-18 18-22	3270 3240	43	3225	81 81	3144 3114		Revised 510A margin due to discontinuation of 50 MW MTOA Arunachai Pradesh to NPCL(U		
		22-24	3280		3195 3235	81	3114				
W3 zone Injection	1st October 2021 to 31st October 2021	00-24		ing specified (In				zone export	would be revised accordingly)		
Note: TTC/A	e: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.										

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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
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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

- 1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- 2) W3 comprises of the following regional entities:
  a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak
- 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 and any other regional entity generator in Chhattisgarh

# 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 if the shutdown is not being availed in real time.

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 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 implemetation.

^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/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.

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.

Simultaneo	ous Import Capa	bility							
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	25400		24000	15734	8266		
			24450**		23050**	14784**			
		06-09	25400		24000	16123	7877		
			24450**		23050**	15173**			Revised STOA margin due to
NR	1st October 2021 to 31st October 2021	09-17	25400 24450**	1400	24000 23050**	16123 15173**	7877		a) operationalization of new LTA OF 73 MW from Tuticorin-BETAMWIND to UPPCL b) operationalization of new LTA OF 10 MW from Tuticorin-IWISL to Haryana
		17-18	25400 24450**		24000 23050**	16123 15173**	7877		
		18-24	25400 24450**		24000	15734 14784**	8266		
		00-02	810		765	455	310		
	1st October	02-07	810		765	455	310		
NER*	2021 to 31st	21 to 31st 07-12 805 12-18 820	45	760	455	305			
1,221	October 2021				775	455	320		
		18-22	610		565	455	110		
WR*		22-24	810		765	455	310		
***									
		00-06	16150		15150	6553	8597		Revised STOA margin due to
SR*#	1st October 2021 to 31st October 2021	06-18	16150	1000	15150	6638	8512		a) operationalization of new LTA of 106 MW from Fatehgarh-II Solar to Telangana
		18-24	16150		15150	6553	8597		<ul> <li>b) operationalization of new LTA of 176</li> <li>MW from Bhadla-II Solar to Telangana</li> </ul>

<sup>\*</sup> 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).

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.

<sup>\*\*</sup>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.

<sup>\*</sup> 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:

Simultane	Simultaneous Export Capability									
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				471	3329			
NR*	1st October 2021 to 31st October 2021	06-18	4500	700	3800	2414	1386		Revised STOA margin due to a) Discontinuation of 250 MW MTOA from ACSEPL to Madhya Pradesh b) Operationalization of new LTA of 250 MW from RSWPL3_FTG2 to BSPHCL c) Operationalization of new LTA of 300 MW from AP43PL_BKN to Odisha	
		18-24				471	3329			
		00-02	3280		3235	81	3154			
		02-07	3280	45	3235	81	3154			
NER*	1st October 2021 to 31st	07-12	3230		3185	81	3104		Revised STOA margin due to discontinuation of 50 MW MTOA Arunachal Pradesh to NPCL(U	
NEX	October 2021	12-18	3270		3225	81	3144		The first of the f	
		18-22	3240		3195	81	3114			
		22-24	3280		3235	81	3154			
WR*										
SR*^	1st October 2021 to 31st October 2021	00-24	3700	400	3300	1676	1624		Revised STOA margin due to a) Increase LTA by 6 MW from BETAM to UP (NR) b) Increase LTA by 15 MW from Spring Energy, Pugalur to UP (NR) c) Operationalization of 63 MW LTA fromHIRIYUR_OSTROKANNADA to Bihar, ER	

<sup>\*</sup> 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
Constraint	
N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev 0
N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 1 to 2
N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 3 to 6
(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 6
Inter-regional flow pattern towards NR	Rev- 0 to 6
N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	
N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit	Rev- 0 to 4
Low Voltage at Gazuwaka (East) Bus.	
	Rev- 5 to 6
Low Voltage at Gazuwaka (East) Bus.	100
	Rev- 0 to 6
<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 6
	Rev- 0 to 6
	Rev- 0 to 6
	N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit (n-1) contingency of 400 kV Saranath-Pusauli Inter-regional flow pattern towards NR N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit Low Voltage at Gazuwaka (East) Bus. N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT Low Voltage at Gazuwaka (East) Bus. 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 a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or II

## **Limiting Constraints (Simultaneous)**

			Applicable Revisions		
		Inter-regional flow pattern towards NR	Rev- 0 to 6		
NR	Import	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 0 to 2		
		N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 3 to 6		
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 6		
	Export	(n-1) contingency of 400 kV Saranath-Pusauli	Kev- 0 to 0		
		a) N-1 contingency of 400 kV Bongaigaon - Killing line (0000 hrs to 2400 hrs)			
	Import	b) High Loading of 220 kV Balipara-Sonabil (0000 hrs to 0700 hrs)	Rev- 0 to 6		
NER		c) High Loading of 220 kV Salakati - BTPS D/C (0700 hrs to 1200 hrs)			
	E1	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II	D 04 6		
	Export	b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 6		
		N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 4		
		N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit			
	Import	Low Voltage at Gazuwaka (East) Bus			
SR		N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 5 to 6		
		Low Voltage at Gazuwaka (East) Bus	Kev- 3 to 0		
	Export	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt	Rev- 0 to 6		
	Export	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Rev- 0 to 0		

## National Load Despatch Centre Total Transfer Capability for October 2021

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	17th July 2021	Whole month	Revised Reliability Margin (TRM) considering 2% of the total anticipated peak demand met in MW in NR Import	WR-NR, ER-NR & NR Import
2	28th July 2024	Whole month	Revised STOA margin due to - a) Increase in LTA from Rihand to MP by 4.5MW (from 45 MW to 49.5 MW) b) Increase in LTA from Matalia to MP by 40 MW (from 10 MW to 50 MW) c) Decrease in LTA from Rajasthan solar to MP by 5 MW (from 10 MW to 5 MW) d) Increase in LTA from Rajasthan solar to Chattisgarh by 5 MW (from 5 MW to 10 MW) e) ARERJL MTOA of 200 MW to Maharashtra has ended f) NR ISGS allocation to Gujrat increased from 58 MW to 80 MW	NR-WR/ NR Export
2	28th July 2021	whole month	Revised STOA margin due to - a) Increase in LTA from RWE_APL2_SECI-III(Ghadsisa) to Haryana by 22 MW (from 241 MW to 263 MW) b) LTA of 228 MW from PGLR_SREPL to UPPCL (SR-WR-NR) c) LTA of 6.9 MW from Rajghat, MP to UPPCL	WR-NR/NR Import
			Revised STOA as unallocated power of 300 MW from NTPC-WR to Karnataka revised to 0 MW  Revised STOA margin due to LTA of 228 MW from PGLR SREPL to UPPCL (SR-WR-	WR-SR/ SR Import
			NR)	SR-WR/SR Export
3	24th August, 2021	Whole Month	Revised TTC/ATC due to commissioning of 765kV Vindhyachal-Varanasi D/C	WR-NR, ER-NR & NR Import
			Revised STOA margin due to increase in LTA from PGLR_SREPL to UP by 12 MW (from 228MW to 240 MW)	SR-WR/SR Export; WR- NR/NR Import
4	28th August, 2021	Whole Month	Revised STOA margin due to operationalisation of LTA of 73 MW from Tuticorin- BETAMWIND to UPPCL (SR-ER-NR)	ER-NR/NR Import
			Revised STOA margin due to change in LTA allocations	NR-ER
	2511 6		Revised STOA margin due to change in LTA allocations	NER Import/Export
5	25th September 2021	Whole Month	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3	WR-SR/ER-SR/SR Import
			Revised STOA margin due to a)operationalization of new LTA OF 73 MW from Tuticorin-BETAMWIND to UPPCL b)operationalization of new LTA OF 10 MW from Tuticorin-IWISL to Haryana	WR-NR/NR Import
	28th September	Whole Month	Revised STOA margin due to a) Discontinuation of 250 MW MTOA from ACSEPL to Madhya Pradesh b) Operationalization of new LTA of 250 MW from RSWPL3_FTG2 to BSPHCL c) Operationalization of new LTA of 300 MW from AP43PL_BKN to Odisha	ER-NR/WR-NR/NR Export
6	2021		Revised STOA margin due to a)operationalization of new LTA of 106 MW from Fatehgarh-II Solar to Telangana b) operationalization of new LTA of 176 MW from Bhadla-II Solar to Telangana	WR-SR/SR Import
			Revised STOA margin due to a) Increase LTA by 6 MW from BETAM to UP (NR) b) Increase LTA by 15 MW from Spring Energy, Pugalur to UP (NR) c) Operationalization of 63 MW LTA from HIRIYUR_OSTROKANNADA to Bihar, ER	SR-WR/SR Export
			Revised STOA margin due to discontinuation of 50 MW MTOA Arunachal Pradesh to NPCL(UP)	NER-ER/NER Export

	MPTIONS IN BASECASE			Marsh - Ostalian 2004		
C No	Name of State/Area		Lood	Month : October 2021 Generat	ion	
S.No.	Name of State/Area		Load			
	NORTHERN REGION	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
1	Punjab	10744	10867	3971	3971	
2	Haryana	9492	9088	2701	2701	
3	Rajasthan	10485	9635	8259	8259	
4	Delhi	5321	5152	796	795	
5	Uttar Pradesh	20631	20099	10623	10689	
	Uttarakhand			1	+	
6 7	Himachal Pradesh	2124 1354	1886 1114	928 783	939 769	
					+	
9	Jammu & Kashmir Chandigarh	2363 313	1962 249	884 0	883	
10		48	48	1	-	
10	ISGS/IPPs Total NR	62875	60100	21958 50903	20013 49019	
	I Otal INK	02073	00100	30903	49019	
- 11	FACTEDNI DECIONI					
1	EASTERN REGION	6527	FC17	250	240	
1	Bihar	6537	5617	356	349	
2	Jharkhand	1958	1503	511	501	
3	Damodar Valley Corporation	2985	2723	5856	4190	
4	Orissa West Bengal	4513 9704	4310	3998 7033	3798	
5			8401		6210	
6	Sikkim	119	116	0	0	
7	Bhutan	181	181	2325	2325	
8	ISGS/IPPs	810	810	15771	11533	
	Total ER	26808	23662	35850	28906	
	WESTERN RESIGN					
III	WESTERN REGION	47405	40500	11001	40700	
1	Maharashtra	17405	16509	11624	10789	
2	Gujarat	13918	11320	8601	7246	
3	Madhya Pradesh	9254	8534	3596	3845	
4	Chattisgarh	4309	3965	2531	2835	
5	Daman and Diu	276	236	0	0	
6	Dadra and Nagar Haveli	744	870	0	0	
7	Goa-WR	534	420	0	0	
8	ISGS/IPPs	1784	3263	36712	32338	
	Total WR	48224	45117	63064	57053	
IV	SOUTHERN REGION					
1	Andhra Pradesh	8024	7220	6268	5204	
2	Telangana	9100	8117	5196	5078	
3	Karnataka	8396	6654	6023	4850	
4	Tamil Nadu	15210	13068	7256	6376	
5	Kerala	3778	2349	1614	961	
6	Pondy	264	264	0	0	
7	Goa-SR	82	82	0	0	
8	ISGS/IPPs	37	37	14805	14794	
	Total SR	44891	37791	41162	37263	
V	NORTH-EASTERN REGION					
1	Arunachal Pradesh	140	95	118	118	
2	Assam	1849	1588	615	574	
3	Manipur	207	86	105	103	
4	Meghalaya	315	255	302	229	
5	Mizoram	150	55	60	60	
6	Nagaland	173	155	96	93	
7	Tripura	435	260	300	300	
8	ISGS/IPPs	0	0	2371	2370	
	Total NER	3269	2494	3967	3847	
	Total All India	186067	169164	194946	176088	