National Load Despatch Centre Total Transfer Capability for September 2021

Issue Date: 30th August, 2021 Issue Time: 1700 hrs Revision No. 9

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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	
		00-06				378	1622			
NR-WR*	1st September 2021 to 30th September 2021	06-18	2500	500	2000	1206	794			
		18-24				378	1622			
			19500		18500	11279				
		00-06	18550**	1000	17550**	10329**	7221			
WR-NR*	1st September 2021 to 30th September 2021	06-18	19500 18550**	1000	18500 17550**	11668 10718**	6832			
		18-24	19500 18550**	1000	18500 17550**	11279 10329**	7221			
NR-ER*	1st September 2021 to 30th	00-06 06-18	2000 2000	200	1800 1800	93 908	1707 892			
NK-EK	September 2021	18-24	2000	200	1800	93	1707			
ER-NR*	1st September 2021 to 30th September 2021	00-24	5900	400	5500	4372	1128			
W3-ER	1st September 2021 to 30th September 2021	00-24	No limit is being specified.							
ER-W3	1st September 2021 to 30th September 2021	00-24						No limit is b	eing specified.	
T	1st September	00-05	9300		8650		5054	-50		
WR-SR	2021 to 3rd	05-22	9300	650	8650	3596	5054	-50	Revised TTC/ATC due to continuous shutdown of 400kV Rengali-Indravati-1	
	September 2021 4th September	22-24 00-05	9300 9350		8650 8700		5054 5104	-50		
WR-SR	2021 to 30th	05-22	9350	650	8700	3596	5104			
	September 2021	22-24	9350	400	8700	057	5104			
SR-WR*	1st September 2021 to 30th	00-09 09-16	6000 5100	400 400	5600 4700	857 857	4743 3843			
JI	September 2021	16-24	6000	400	5600	857	4743			
	1st September	00-06				2672	2428	-300		
ER-SR [△]	2021 to 3rd	06-18	5450 350	350	5100	2757	2343	-300	Revised TTC/ATC due to continuous shutdown of 400kV Rengali-Indravati-1	
	September 2021	18-24				2672	2428	-300		
	41.6	00-06				2672	2728			
ER-SR [△]	4th September 2021 to 30th	06-18	5750	350	5400	2757	2643			
LA-DR	September 2021	18-24								
SR-ER *	1st September 2021 to 30th September 2021	00-24	No limit is being Specified.							
		00-02	1670		1625	455	670			
		02-07	1670		1625	455	670			
	1st Sentember	07-12	1670	45	1625	455	670			
ER-NER*	1st September 2021 to 30th		1.670		1625	455	670 430			
ER-NER*		12-18	1670 1430							
ER-NER*	2021 to 30th		1670 1430 1670		1385 1625	455 455	670			
ER-NER*	2021 to 30th	12-18 18-22 22-24 00-02	1430 1670 2700		1385 1625 2655	455 131	670 3024			
ER-NER*	2021 to 30th	12-18 18-22 22-24 00-02 02-07	1430 1670 2700 2700		1385 1625 2655 2655	455 131 131	670 3024 3024			
ER-NER*	2021 to 30th September 2021 1st September 2021 to 30th	12-18 18-22 22-24 00-02 02-07 07-12	1430 1670 2700 2700 2700	45	1385 1625 2655 2655 2655	455 131 131 131	670 3024 3024 3024			
	2021 to 30th September 2021 1st September	12-18 18-22 22-24 00-02 02-07	1430 1670 2700 2700		1385 1625 2655 2655	455 131 131	670 3024 3024			
	2021 to 30th September 2021 1st September 2021 to 30th	12-18 18-22 22-24 00-02 02-07 07-12 12-18	1430 1670 2700 2700 2700 2700 2700		1385 1625 2655 2655 2655 2655	455 131 131 131 131	670 3024 3024 3024 3024 3024			
	2021 to 30th September 2021 1st September 2021 to 30th	12-18 18-22 22-24 00-02 02-07 07-12 12-18 18-22	1430 1670 2700 2700 2700 2700 2700 2600 2700	45	1385 1625 2655 2655 2655 2655 2655 2555 2655	455 131 131 131 131 131 131 131	670 3024 3024 3024 3024 2924 3024	zone export wo	ould be revised accordingly)	

National Load Despatch Centre **Total Transfer Capability for September 2021**

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Corridor	Date Time Period (hrs) Total Transfer Capability (TTC) Total Transfer (Capability (TTC)		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

- 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 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/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.

NER-ER TTC has been decreased by 500MW after reversal of HVDC BNC-APD-Agra and 500MW again added after subtracting LTA/MTOA from ATC to keep STOA marging unchanged in NER-ER/NER export.

Simultaneo	Simultaneous Import 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	
			25400		24000	15651				
		00-06	24450**		23050**	14701**	8349			
			25400		24000	16040				
		06-09	24450**		23050**	15090**	7960			
NR	1st September 2021 to 30th September 2021	09-17	25400 24450**	1400	24000 23050**	16040 15090**	7960			
		17-18	25400 24450**		24000 23050**	16040 15090**	7960			
		18-24	25400 24450**		24000 23050**	15651 14701**	8349			
		00-02	1170		1125	455	670			
	1st September	02-07	1170		1125 1125	455 455	670			
NER*	2021 to 30th	07-12 12-18	1170 1170	45	1125	455	670 670			
	September 2021	18-22	930		885	455	430			
		22-24	1170		1125	455	670			
WR*										
	1st September	00-06	14750		13750	6270	7480	-350		
SR*#	2021 to 3rd	06-18	14750	1000	13750	6355	7395	-350	Revised TTC/ATC due to continuous shutdown of 400kV Rengali-Indravati-1	
, , , , , , , , , , , , , , , , , , ,	September 2021	18-24	14750		13750	6270	7480	-350		
	4th September	00-06	15100		14100	6270	7830			
SR*#	2021 to 30th	06-18	15100	1000	14100	6355	7745			
	September 2021	18-24	15100		14100	6270	7830			

^{*} 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.

^{**}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:

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	
	1st September	00-06				471	3329			
NR*		06-18	4500	700	3800	2114	1686			
		18-24				471	3329			
		00-02	3200	45	3155	131	3024			
		02-07	3200		3155	131	3024			
NER*	1st September 2021 to 30th	07-12	3200		45	3155	131	3024		
NEK.	September 2021	12-18	3200			3155	131	3024		
		18-22	3100			3055	131	2924		
		22-24	3200		3155	131	3024			
WR*										
	1st September	00-09	5500	400	5100	1586	3514			
SR*^	2021 to 30th	09-16	4600	400	4200	1586	2614			
	September 2021	16-24	5500	400	5100	1586	3514			
Real Time	TTC/ATC revisio	ns are up	oloaded on P	OSOCO/NLI	DC "News U	pdate" (Flasher) S	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.

Limiting	Constraints (Corridor wise)						
		Applicable Revisions					
Corridor	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 5					
	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 6 to 9					
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 9					
ER-NR	N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. Inter-regional flow pattern towards NR	Rev- 0					
220 7 120	Inter-regional flow pattern towards NR	Rev- 1 to 9					
WR-SR	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						
SK	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 3					
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- 4 to 9					
ER-NER	 a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C 	Rev- 0 to 9					
NER-ER	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 7					
NEK-EK	 a) N-1 contingency of 400 kV Bongaigaon - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar DC (200 MW) 	Rev- 8 to 9					
W3 zone Injection		Rev- 0 to 9					

Limiting Constraints (Simultaneous)

		(Simurtaneous)	Applicable Revisions		
		N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. Inter-regional flow pattern towards NR	Rev- 0		
	Import	Inter-regional flow pattern towards NR	Rev- 1 to 9		
NR		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 5		
		N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 6 to 9		
	Ermont	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 9		
	Export	(n-1) contingency of 400 kV Saranath-Pusauli	Kev- 0 to 9		
	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0 to 9		
NER	Export	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 7		
		a) N-1 contingency of 400 kV Bongaigaon - Alipurduar I or IIb) High Loading of 220 kV Salakati - Alipurduar DC (200 MW)	Rev- 8 to 9		
		N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT			
	Import	N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit	Rev- 0 to 9		
		Low Voltage at Gazuwaka (East) Bus	7		
SR	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 3		
SK	Export	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Kev- 0 to 3		
	Export	 a) N-1 of Pune Kharghar would overload 400 kV Pune-Kalwa. b) Overloading of Kolhapur (PG)-Kolhapur (MS) under outage of other circuit & overloading of 400/220 kV NSPCL ICT under outage of the other ICT. 	Rev- 4 to 9		

National Load Despatch Centre Total Transfer Capability for September 2021

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected				
1	4th June 2021	Whole month	a) Reversal in HVDC APD-Agra flow	WR-NR, ER-NR & NR Import				
			b) Commissioning of 765kV Ajmer-Phagi D/C and 765kV G.Noida-Fatehabad S/C					
			a) Revised STOA margin due to decrease in LTA allocations by 5 MW (90 MW to 85 MW) from					
			AWEK1L to UPPCL	WR-NR/NR Import				
			b) Revised STOA margin due to increase in LTA allocations by 21 MW (19 MW to 40 MW) from					
			AWEK1L to Chandigarh					
2	28th June 2021	Whole month	Revised STOA margin due to increase in LTA allocations by 10 MW (65 MW to 75 MW) from	WR-SR/ SR Import				
-	2011 Julie 2021	Whole month	AWEKTL-WR to KSEB	WK-SK/ SK IIIIport				
			Revised STOA margin due to increase in LTA allocation by 4 MW (62 MW to 68 MW) from	SR-WR				
			BETAM to UP (NR)	SK-WK				
			Revised STOA margin due to increase in LTA allocation from BETAM to UP (NR) & Odisha each	SR Export				
			by 4 MW (62 MW to 8MW)	SK Export				
3	17th July 2021	Whole month	Revised Reliability Margin (TRM) considering 2% of the total anticipated peak demand met in	WR-NR, ER-NR & NR Import				
3	17ti1July 2021	whole month	MW in NR Import	WK-NK, EK-NK & NK IIIIport				
4	19th July 2021	Whole month	Revised TTC/ATC due to change in LGBR of WR and outage of all units of Kudgi.	SR-WR/SR Export				
			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)	NR-WR/ NR Export				
			d) Increase in LTA from Rajasthan solar to Chattisgarh by 5 MW (from 5 MW to 10 MW)					
	28th July 2021		e) ARERJL MTOA of 200 MW to Maharashtra has ended					
			f) NR ISGS allocation to Gujrat increased from 58 MW to 80 MW					
5		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)	WR-NR/NR Import				
			b) LTA of 228 MW from PGLR SREPL to UPPCL (SR-WR-NR)					
			c) LTA of 6.9 MW from Raighat, MP to UPPCL					
			Revised STOA as unallocated power of 300 MW from NTPC-WR to Karnataka revised to 0 MW	WR-SR/ SR Import				
			Revised STOA margin due to LTA of 228 MW from PGLR_SREPL to UPPCL (SR-WR-NR)	SR-WR/SR Export				
6	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	SR-WR/SR Export; WR-NR/NR				
			to 240 MW)	Import				
_			Revised STOA margin due to operationalisation of LTA of 73 MW from Tuticorin-BETAMWIND					
7	28th August, 2021	Whole Month	to UPPCL (SR-ER-NR)	ER-NR/NR Import				
			Revised STOA margin due to change in LTA allocations	NR-ER				
			Revised STOA margin due to change in LTA allocations	NER Import/Export				
			1) Change in Load-Generation of NER					
8	29th August, 2021	Whole Month	2) One Unit BGTPP (3x250 MW) and Kameng HEP (4x150 MW) are under force outage	NER Import/Export				
	= -		3) commissioning of 400 kV Palatana - SM Nagar(TSECL) Line 1 on 11th July 2021	1				
9	29th August, 2021	1st to 3rd Sep 2021	Revised TTC/ATC due to continuous shutdown of 400kV Rengali-Indravati-1	WR-SR/ER-SR/SR Import				
9	Zotii August, 2021	15t to 5rd 5ep 2021	nevised TTC/ATC due to continuous shutdown of 400kV kengali-indravati-1	wh-sk/ek-sk/sk iinport				

ASSUM	MPTIONS IN BASECASE					
				Month: September 202		
S.No.	Name of State/Area		Load	Generation		
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
1	NORTHERN REGION					
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	
6	Uttarakhand	2124	1886	928	939	
7	Himachal Pradesh	1354	1114	783	769	
8	Jammu & Kashmir	2363	1962	884	883	
9	Chandigarh	313	249	0	0	
10	ISGS/IPPs	48	48	21958	20013	
	Total NR	62875	60100	50903	49019	
П	EASTERN REGION					
1	Bihar	6537	5617	356	349	
2	Jharkhand	1958	1503	511	501	
3	Damodar Valley Corporation	2985	2723	5856	4190	
4	Orissa	4513	4310	3998	3798	
5	West Bengal	9704	8401	7033	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	
III	WESTERN REGION					
		17405	16509	11604	10790	
1	Maharashtra			11624	10789	
2	Gujarat Madhya Bradach	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