National Load Despatch Centre Total Transfer Capability for November 2021

Issue Date: 25th September, 2021 Issue Time: 1700 hrs Revision No. 3

			Ta4-1		Available	Long Term	Margin	Changes	
Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	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
		00-06				378	1622		
NR-WR*	1st November 2021 to 30th November 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 November 2021 to 30th	06-18	19500	1000	18500	11668	6832		
,, 11 , 11	November 2021	00 10	18550**	1000	17550**	10718**	0032		
			19500		18500	11279			
		18-24	18550**	1000	17550**	10329**	7221		
	1st November	00-06	2000		1800	93	1707		
NR-ER*	2021 to 30th	06-18	2000	200	1800	908	892		
	November 2021	18-24	2000		1800	93	1707		
ER-NR*	1st November 2021 to 30th November 2021	00-24	5900	400	5500	4372	1128		
W3-ER	1st November 2021 to 30th November 2021	00-24		No limit is being specified.					
ER-W3	1st November 2021 to 30th November 2021	00-24		No limit is being specified.					
	1st November	00-05	10350		9700		6104	1000	
WR-SR	2021 to 30th November 2021	05-22 22-24	10350 10350	650	9700 9700	3596	6104 6104	1000 1000	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3
SR-WR*	1st November 2021 to 30th November 2021	00-24	4600	400	4200	857	3343	1000	
		00-06				2672	2778	50	
ER-SR [△]	1st November 2021 to 30th	06-18	5800	350	5450	2757	2693	50	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3
	November 2021	18-24				2672	2778	50	
SR-ER *	1st November 2021 to 30th November 2021	00-24		No limit is being Specified.					
		00-02	810		765	455	310		
	1st November	02-07 07-12	810 805		765 760	455 455	310 305		
ER-NER*	2021 to 30th November 2021	12-18	820	45	775	455	320		
		18-22 22-24	610 810		565 765	455 455	110 310		
		00-02	3280		3235	131	3104		
	1st November	02-07	3280		3235	131	3104		
NER-ER*	2021 to 30th	07-12 12-18	3230 3270	45	3185 3225	131 131	3054 3094		
	November 2021	18-22	3240		3195	131	3064		
		22-24	3280		3235	131	3104		

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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	
W3 zone Injection	1st November 2021 to 30th November 2021		No limit is be	o limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						

Note: 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.

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:

- The TTC value will be revised to normal values after restoration of shutdown.
 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 appropiate neasures 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 appropiate 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.

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	
		00-06	25400 24450**		24000 23050**	15651 14701**	8349			
		06-09	25400 24450**		24000	16040 15090**	7960			
NR	1st November 2021 to 30th November 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	810		765	455	310			
	1st November	02-07	810		765	455	310			
NER*	2021 to 30th	07-12 12-18	805 820	45	760 775	455 455	305 320			
	November 2021	18-22 22-24	610 810		565 765	455 455 455	110 310			
		22-24	810		/03	433	310			
\mathbf{WR}^*										
	1st November	00-06	16150		15150	6270	8880	1050	TTC/ATC	
$\mathbf{SR}^{*\#}$	2021 to 30th	06-18	16150	1000	15150	6355	8795	1050	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3	
Name - 2021		10.01	1 - 1 - 0	l	15150	6050	0000	1050	or n v DC Kargarn-Pugaruf Pole-3	

^{*} 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).

6270

8880

1050

15150

Margin in Simultaneous import of NR = A

November 2021

18-24

16150

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 appropiate 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:

Simultane	multaneous 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 November 2021 to 30th November 2021	06-18	4500	700	3800	2114	1686				
		18-24				471	3329				
		00-02	3280		3235	131	3104				
		02-07	3280		3235 131	131	3104				
NER*	1st November 2021 to 30th	07-12	3230	45	3185	131	3054				
NEK	November 2021	12-18	3270		43	43	3225	131	3094		
		18-22	3240				3195	3195 131	3064		
		22-24	3280		3235	131	3104				
WR*											
SR*^	1st November 2021 to 30th November 2021	00-24	3700	400	3300	1586	1714				

^{*} 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.

Limiting	Limiting Constraints (Corridor wise)						
		Applicable Revisions					
Corridor	Constraint						
WR-NR	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 0 to 1					
WK-NK	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 2 to 3					
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 3					
ER-NR	Inter-regional flow pattern towards NR	Rev- 0 to 3					
WR-SR	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT						
and ER-	- N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit						
SR	Low Voltage at Gazuwaka (East) Bus.						
WR-SR and ER-	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 3					
SR	Low Voltage at Gazuwaka (East) Bus.	Kev- 3					
I CP-W/P	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					
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 3					
I 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 3					
W3 zone Injection		Rev- 0 to 3					

Limiting Constraints (Simultaneous)

_		(Omitatuneous)	Applicable Revisions	
		Inter-regional flow pattern towards NR	Rev- 0 to 3	
NR	Import	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 0 to 1	
		N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 2 to 3	
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 3	
	Export	Kev- 0 to 3		
		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 3	
NER		c) High Loading of 220 kV Salakati - BTPS D/C (0700 hrs to 1200 hrs)		
	Export	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II	D 0 to 2	
		b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 3	
		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 2	
	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- 3	
		Low Voltage at Gazuwaka (East) Bus	Kev- 3	
	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	
	Export	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	KCV- 0 t0 3	

National Load Despatch Centre Total Transfer Capability for November 2021

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	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
2	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
			Revised STOA margin due to change in LTA allocations	NER Import/Export
3	25th September 2021	Whole Month	WR-SR/ER-SR/SR Import	

ASSUN	MPTIONS IN BASECASE				
				Month: November 2021	
S.No.	Name of State/Area		Load	Generat	ion
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
Ι	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
Ш	WESTERN REGION				
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