

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

Issue Date: 29th September, 2021

Issue Time: 1700 hrs

Revision No. 7

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				
NR-WR*	1st October 2021 to 31st October 2021	00-06	2500	500	2000	378	1622						
		06-18				956	1044						
		18-24				378	1622						
WR-NR*	1st October 2021 to 31st October 2021	00-06	19500 18550**	1000	18500 17550**	11362 10412**	7138						
		06-18	19500 18550**	1000	18500 17550**	11751 10801**	6749						
		18-24	19500 18550**	1000	18500 17550**	11362 10412**	7138						
NR-ER*	1st October 2021 to 31st October 2021	00-06	2000	200	1800	93	1707						
		06-18	2000		1800	1458	342						
		18-24	2000		1800	93	1707						
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 being specified.										
ER-W3	1st October 2021 to 31st October 2021	00-24	No limit is being specified.										
WR-SR [^]	1st October 2021 to 10th October 2021	00-05	10000	650	9350	3880	5470	-350	ATC/TTC Curtailed due to shutdown of 765 kV Wardha - Aurangabad - 3 & 4				
		05-22	10000		9350		5470	-350					
		22-24	10000		9350		5470	-350					
WR-SR [^]	11th October 2021 to 31st October 2021	00-05	10350	650	9700	3880	5820						
		05-22	10350		9700		5820						
		22-24	10350		9700		5820						
SR-WR*	1st October 2021 to 31st October 2021	00-09	6000	400	5600	884	4716						
		09-16	5100	400	4700	884	3816						
		16-24	6000	400	5600	884	4716						
ER-SR [^]	1st October 2021 to 10th October 2021	00-06	5750	350	5400	2672	2728	-50	ATC/TTC Curtailed due to shutdown of 765 kV Wardha - Aurangabad - 3 & 4				
		06-18				2757	2643	-50					
		18-24				2672	2728	-50					
ER-SR [^]	11th October 2021 to 31st October 2021	00-06	5800	350	5450	2672	2778						
		06-18				2757	2693						
		18-24				2672	2778						
SR-ER *	1st October 2021 to 31st October 2021	00-24	No limit is being Specified.										
ER-NER*	1st October 2021 to 31st October 2021	00-02	1680	45	1635	455	1180		1) Change in Load-Generation of NER 2) Two units of Kameng HEP (4x150 MW) are under force outage				
		02-07	1680		1635	455	1180						
		07-12	1680		1635	455	1180						
		12-18	1680		1635	455	1180						
		18-22	1400		1355	455	900						
		22-24	1680		1635	455	1180						
		00-02	2950		2905	81	2824						
NER-ER*	1st October 2021 to 31st October 2021	02-07	2950	45	2905	81	2824		1) Change in Load-Generation of NER 2) Two units of Kameng HEP (4x150 MW) are under force outage				
		07-12	2950		2905	81	2824						
		12-18	2950		2905	81	2824						
		18-22	2850		2805	81	2724						
		22-24	2950		2905	81	2824						
		W3 zone Injection	1st October 2021 to 31st October 2021		00-24	No 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.

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<p>* 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).</p>									
<p>**Considering 400 kV Rihand stage-III - Vinhyachal 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.</p>									
<p>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) KWPCCL, n)Vandana Vidvut o)RKM, p)GMR Raikhedra, q)Ind Barath and any other regional entity generator in Chhattisgarh</p> <p># 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 commissioned 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.</p> <p>In case of TTC Revision due to any shutdown :</p> <p>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.</p> <p>Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section</p> <p>^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.</p> <p>^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.</p> <p>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.</p> <p>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.</p>									

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	
NR	1st October 2021 to 31st October 2021	00-06	25400	1400	24000	15734	8266			
			24450**		23050**	14784**				
		06-09	25400		24000	16123	7877			
			24450**		23050**	15173**				
		09-17	25400		24000	16123	7877			
			24450**		23050**	15173**				
17-18	25400	24000	16123	7877						
	24450**	23050**	15173**							
18-24	25400	24000	15734	8266						
	24450**	23050**	14784**							
NER*	1st October 2021 to 31st October 2021	00-02	1180	45	1135	455	680		1) Change in Load-Generation of NER 2) Two units of Kameng HEP (4x150 MW) are under force outage	
			02-07		1180	1135				455
			07-12		1180	1135				455
			12-18		1180	1135				455
			18-22		900	855				455
			22-24		1180	1135				455
WR*										
SR*#	1st October 2021 to 10th October 2021	00-06	15750	1000	14750	6553	8197	-400	ATC/TTC Curtailed due to shutdown of 765 kV Wardha - Aurangabad - 3 & 4	
		06-18	15750		14750	6638	8112	-400		
		18-24	15750		14750	6553	8197	-400		
SR*#	11th October 2021 to 31st October 2021	00-06	16150	1000	15150	6553	8597			
		06-18	16150		15150	6638	8512			
		18-24	16150		15150	6553	8597			

* 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.

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
NR*	1st October 2021 to 31st October 2021	00-06	4500	700	3800	471	3329		
		06-18				2414	1386		
		18-24				471	3329		
NER*	1st October 2021 to 31st October 2021	00-02	3450	45	3405	81	3324		1) Change in Load-Generation of NER 2) Two units of Kameng HEP (4x150 MW) are under force outage
		02-07	3450		3405	81	3324		
		07-12	3450		3405	81	3324		
		12-18	3450		3405	81	3324		
		18-22	3350		3305	81	3224		
		22-24	3450		3405	81	3324		
WR*									
SR*^	1st October 2021 to 31st October 2021	00-09	5500	400	5100	1676	3424		
		09-16	4600	400	4200	1676	2524		
		16-24	5500	400	5100	1676	3424		
* 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 Constraints (Corridor wise)			Applicable Revisions	
Corridor	Constraint			
WR-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 2	
	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit		Rev- 3 to 7	
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 7	
ER-NR	Inter-regional flow pattern towards NR		Rev- 0 to 7	
WR-SR and ER-SR	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			
	Low Voltage at Gazuwaka (East) Bus.		Rev- 5 to 7	
	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.				
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 7	
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 7	
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	
W3 zone Injection	---		Rev- 0 to 7	
Limiting Constraints (Simultaneous)			Applicable Revisions	
NR	Import	Inter-regional flow pattern towards NR	Rev- 0 to 7	
		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 7
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 7	
		(n-1) contingency of 400 kV Saranath-Pusauli		
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Killing line (0000 hrs to 2400 hrs) b) High Loading of 220 kV Balipara-Sonabil (0000 hrs to 0700 hrs) c) High Loading of 220 kV Salakati - BTPS D/C (0700 hrs to 1200 hrs)	Rev- 0 to 7	
	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	
SR	Import	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		
		Low Voltage at Gazuwaka (East) Bus		Rev- 5 to 7
	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			
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 7	
	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs			

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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 2021	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
			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	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
3	24th August, 2021	Whole Month	Revised TTC/ATC due to commissioning of 765kV Vindhychal-Varanasi D/C	WR-NR, ER-NR & NR Import
4	28th August, 2021	Whole Month	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
			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
5	25th September 2021	Whole Month	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3	WR-SR/ER-SR/SR Import
6	28th September 2021	Whole Month	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
			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
			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 fromHIRIYUR_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
7	29th September 2021	Whole Month	1) Change in Load-Generation of NER 2) Two units of Kameng HEP (4x150 MW) are under force outage	ER-NER/NER Import/NER-ER/NER Export
		1st to 10th October 2021	ATC/TTC Curtailed due to shutdown of 765 kV Wardha - Aurangabad - 3 & 4	ER-SR/WR-SR/SR Import

ASSUMPTIONS IN BASECASE					
				Month : October 2021	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	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/PPs	48	48	21958	20013
	Total NR	62875	60100	50903	49019
II	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/PPs	810	810	15771	11533
	Total ER	26808	23662	35850	28906
III	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/PPs	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/PPs	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/PPs	0	0	2371	2370
	Total NER	3269	2494	3967	3847
	Total All India	186067	169164	194946	176088