

National Load Despatch Centre Total Transfer Capability for Sep 2022										
Issue Date:Jun 30 2022				Issue Time:15:22:23			Revision No :2			
Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Long Term Access(LTA)/Medium Term Open Access(MTOA)	Margin Available For Short Term Open Access(STOA)	Chnages w.r.t. Previous Revision	Comment	
ER-NER	01 Sep to 30 Sep	00:00 to 07:00	905	60	845	455	390	0		
		07:00 to 12:00	890	60	830	455	375	0		
		12:00 to 18:00	900	60	840	455	385	0		
		18:00 to 22:00	735	60	675	455	220	0		
		22:00 to 24:00	905	60	845	455	390	0		
ER-NR	01 Sep to 30 Sep	00:00 to 24:00	8000	400	7600	4854	2746	2100	Due to change in LGB and change in inter-regional flow pattern	
ER-SR	01 Sep to 30 Sep	00:00 to 24:00	5700	350	5350	3152	2198	0		
ER-W3	01 Sep to 30 Sep	00:00 to 24:00	No limit is being specified.							
NER-ER	01 Sep to 30 Sep	00:00 to 07:00	3370	60	3310	258	3052	0		
		07:00 to 12:00	3355	60	3295	258	3037	0		
		12:00 to 18:00	3340	60	3280	258	3022	0		
		18:00 to 22:00	3275	60	3215	258	2957	0		
		22:00 to 24:00	3370	60	3310	258	3052	0		
NR-ER	01 Sep to 30 Sep	00:00 to 06:00	2000	200	1800	100	1700	0		
		06:00 to 18:00	2000	200	1800	1615	185	0		
		18:00 to 24:00	2000	200	1800	100	1700	0		
NR-WR	01 Sep to 30 Sep	00:00 to 06:00	3600	500	3100	1232	1868	0		
		06:00 to 18:00	3600	500	3100	4607	0	0		

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		18:00 to 24:00	3600	500	3100	1232	1868	0	
SR-ER	01 Sep to 30 Sep	00:00 to 24:00	No limit is being specified.						
SR-WR	01 Sep to 30 Sep	00:00 to 24:00	7400	650	6750	950	5800	0	
W3 Injection	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	
W3-ER	01 Sep to 30 Sep	00:00 to 24:00	No limit is being specified.						
WR-NR	01 Sep to 30 Sep	00:00 to 06:00	17800	1000	16800	10483	6317	-750	Due to change in LGB and change in inter-regional flow pattern
		06:00 to 18:00	17800	1000	16800	10782	6018	-750	
		18:00 to 24:00	17800	1000	16800	10483	6317	-750	
WR-SR	01 Sep to 30 Sep	00:00 to 06:00	11600	650	10950	3691	7259	0	
		06:00 to 18:00	11600	650	10950	4511	6439	0	
		18:00 to 24:00	11600	650	10950	3691	7259	0	

* 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 - Vindhychal 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) KWPCCL, 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 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.

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 3X315 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..

Simultaneous Import Capability

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Long Term Access(LTA)/Medium Term Open Access(MTOA)	Margin Available For Short Term Open Access(STOA)	Chnages w.r.t. Previous Revision	Comment
ER	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	
NER	01 Sep to 30 Sep	00:00 to 07:00	905	60	845	455	390	0	
		07:00 to 12:00	890	60	830	455	375	0	
		12:00 to 18:00	900	60	840	455	385	0	
		18:00 to 22:00	735	60	675	455	220	0	
		22:00 to 24:00	905	60	845	455	390	0	
NR	01 Sep to 30 Sep	00:00 to 06:00	25800	1400	24400	15337	9063	1350	Due to change in LGB and change in inter-regional flow pattern
		06:00 to 18:00	25800	1400	24400	15636	8764	1350	
		18:00 to 24:00	25800	1400	24400	15337	9063	1350	
SR	01 Sep to	00:00 to 06:00	17300	1000	16300	6778	9522	0	
		06:00 to 18:00	17300	1000	16300	7663	8637	0	

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Long Term Access(LTA)/Medium Term Open Access(MTOA)	Margin Available For Short Term Open Access(STOA)	Chnages w.r.t. Previous Revision	Comment
	30 Sep	18:00 to 24:00	17300	1000	16300	6778	9522	0	
WR	01 Sep to 30 Sep	00:00 to 24:00	NA	NA			0	0	

* 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 - Vindhychal 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 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 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(RM)	Available Transfer Capability(ATC)	Long Term Access(LTA)/Medium Term Open Access(MTOA)	Margin Available For Short Term Open Access(STOA)	Chnages w.r.t. Previous Revision	Comment
ER	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	
NER	01 Sep to 30 Sep	00:00 to 07:00	3370	60	3310	258	3052	0	
		07:00 to 12:00	3355	60	3295	258	3037	0	
		12:00 to 18:00	3340	60	3280	258	3022	0	
		18:00 to 22:00	3275	60	3215	258	2957	0	
		22:00 to 24:00	3370	60	3310	258	3052	0	
NR	01 Sep to 30 Sep	00:00 to 06:00	3600	500	3100	1332	1768	0	
		06:00 to 18:00	3600	500	3100	6222	0	0	

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Long Term Access(LTA)/Medium Term Open Access(MTOA)	Margin Available For Short Term Open Access(STOA)	Chnages w.r.t. Previous Revision	Comment
		18:00 to 24:00	3600	500	3100	1332	1768	0	
SR	01 Sep to 30 Sep	00:00 to 24:00	6350	650	5700	2155	3545	0	
WR	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	

* 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	Constraints	Revisions
WR-NR	N-1 contingency of one ckt of 765 kV Vindhychal-Varanasi will overload the other circuit	0-2
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	0-2
ER-NR	Inter-regional flow pattern towards NR	0-2
WR-SR	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	0-2
ER-SR	Low Voltage at Gazuwaka (East) Bus.	0-2
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	0-2
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	0-2
NER-ER	a) N-1 contingency of 220 kV Salakati - BTPS I or II b) High Loading of 220 kV Salakati - BTPS II or I	0-2
NR_IMPORT	N-1 contingency of one ckt of 765 kV Vindhychal-Varanasi will overload the other circuit	0-2
NR_EXPORT	(N-1) Contingency of 400 kV Banaskantha - Veloda D/C (n-1) contingency of 400 kV Saranath-Pusauli	0-2
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	0-2
NER_EXPORT	a) N-1 contingency of 220 kV Salakati - BTPS I or II b) High Loading of 220 kV Salakati - BTPS II or I	0-2
SR_IMPORT	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	0-2
SR_EXPORT	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt	0-2

Revision Summary

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
0	28 May			

1 Revision	28 Jun Date Of Revision	01 Sep to 30 Sep Revision	Revised STO A margin due to a) Increase in LTA quantum by 35 MW from NSNTPC_F TG1 to TSSPDCL. b) Increase in LTA quantum by 13 MW from NSNTPC_F TG1 to TSSPDCL.	NR-WR Corridor Affected
		01 Sep to 30 Sep	Revised STO A margin due to operationalization of new LTA of 23.4 MW from POWERICA to UPPCL	WR-NR
		01 Sep to 30 Sep	Revised STO A margin due to increase in LTA quantum by 75.6 MW from NPGC to UTTAR PRADESH(Railway)	ER-NR
		01 Sep to 30 Sep	Revised STO A margin due to a)Operationalization of new MTOA of 50 MW from JPNIGRIE_JNSTPP to TANGEDCO b)Operationalization of new LTA quantum of 20 MW from KAWAS to TELANGANA	WR-SR
		01 Sep to 30 Sep	Revised STO A margin due to operationalization of new allocation of 100 MW from SR_ISGS to Uttarakhand	SR-WR
		01 Sep to 30 Sep	Revised STO A margin due to a)operationalization of new LTA of 23.4 MW from POWERICA to UPPCL b) increase in LTA quantum by 75.6 MW from NPGC to UTTAR PRADESH(Railway)	NR_IMPORT
		01 Sep to 30 Sep	Revised STO A margin due to a)Operationalization of new MTOA of 50 MW from JPNIGRIE_JNSTPP to TANGEDCO b)Operationalization of new LTA quantum of 20 MW from KAWAS to TELANGANA	SR_IMPORT
		01 Sep to 30 Sep	Revised STO A margin due to a) Increase in LTA quantum by 35 MW from NSNTPC_F TG1 to TSSPDCL. b) Increase in LTA quantum by 13 MW from NSNTPC_F TG1 to TSSPDCL.	NR_EXPORT
		01 Sep to 30 Sep	Revised STO A margin due to a) operationalization of new allocation of 100 MW from SR_ISGS to Uttarakhand b) Increase in LTA quantum by 50 MW from GRT Jewellers, TTGS to SBPDCL, NBPDC ER	SR_EXPORT
2	30 Jun	01 Sep to 30 Sep	Due to change in LGB and change in inter-regional flow pattern	WR-NR
		01 Sep to 30 Sep	Due to change in LGB and change in inter-regional flow pattern	ER-NR
		01 Sep to 30 Sep	Due to change in LGB and change in inter-regional flow pattern	NR_IMPORT

ASSUMPTIONS IN BASECASE					
				Month : July 2022	
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/IPPs	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/IPPs	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/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