

National Load Despatch Centre Total Transfer Capability for Apr 2023									
Issue Date:Dec 28 2022				Issue Time:15:22:03			Revision No :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
ER-NER	01 Apr to 30 Apr	00:00 to 07:00	920	60	860	455	405	0	
		07:00 to 12:00	1035	60	975	455	520	0	
		12:00 to 17:00	970	60	910	455	455	0	
		17:00 to 21:00	800	60	740	455	285	0	
		21:00 to 24:00	920	60	860	455	405	0	
ER-NR	01 Apr to 30 Apr	00:00 to 24:00	8000	400	7600	4968	2632	0	
ER-SR	01 Apr to 30 Apr	00:00 to 06:00	5700	350	5350	3250	2100	0	
		06:00 to 18:00	5700	350	5350	3316	2034	0	
		18:00 to 24:00	5700	350	5350	3250	2100	0	
ER-W3	01 Apr to 30 Apr	00:00 to 24:00	No limit is being specified.						
NER-ER	01 Apr to 30 Apr	00:00 to 07:00	3265	60	3205	258	2947	0	
		07:00 to 12:00	3275	60	3215	258	2957	0	
		12:00 to 17:00	3240	60	3180	258	2922	0	
		17:00 to 21:00	3200	60	3140	258	2882	0	
		21:00 to 24:00	3265	60	3205	258	2947	0	
NR-ER	01 Apr to 30 Apr	00:00 to 06:00	2000	200	1800	125	1675	0	
		06:00 to 18:00	2000	200	1800	1990	0	0	
		18:00 to 24:00	2000	200	1800	125	1675	0	
NR-WR	01 Apr to 30 Apr	00:00 to 06:00	3600	500	3100	1232	1868	0	
		06:00 to 18:00	3600	500	3100	5035	0	0	
		18:00 to 24:00	3600	500	3100	1232	1868	0	

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SR-ER	01 Apr to 30 Apr	00:00 to 24:00	No limit is being specified.						
SR-WR	01 Apr to 30 Apr	00:00 to 06:00	7400	650	6750	852	5898	0	
		06:00 to 18:00	7400	650	6750	1052	5698	0	
		18:00 to 24:00	7400	650	6750	852	5898	0	
W3 Injection	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0	
W3-ER	01 Apr to 30 Apr	00:00 to 24:00	No limit is being specified.						
WR-NR	01 Apr to 30 Apr	00:00 to 06:00	17800	1000	16800	11135	5665	0	
		06:00 to 18:00	17800	1000	16800	11434	5366	0	
		18:00 to 24:00	17800	1000	16800	11135	5665	0	
WR-SR	01 Apr to 30 Apr	00:00 to 06:00	11600	650	10950	3611	7339	0	
		06:00 to 18:00	11600	650	10950	4573	6377	0	
		18:00 to 24:00	11600	650	10950	3611	7339	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) KWPC, 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 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0	
NER	01 Apr to 30 Apr	00:00 to 07:00	920	60	860	455	405	0	
		07:00 to 12:00	1035	60	975	455	520	0	
		12:00 to 17:00	970	60	910	455	455	0	
		17:00 to 21:00	800	60	740	455	285	0	
		21:00 to 24:00	920	60	860	455	405	0	
NR	01 Apr to 30 Apr	00:00 to 06:00	25800	1400	24400	16103	8297	0	
		06:00 to 18:00	25800	1400	24400	16402	7998	0	
		18:00 to 24:00	25800	1400	24400	16103	8297	0	
SR	01 Apr to 30 Apr	00:00 to 06:00	17300	1000	16300	6862	9438	0	
		06:00 to 18:00	17300	1000	16300	7889	8411	0	
		18:00 to 24:00	17300	1000	16300	6862	9438	0	
WR	01 Apr to 30 Apr	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 - Vindhyaachal 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(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 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0	
NER	01 Apr to 30 Apr	00:00 to 07:00	3265	60	3205	258	2947	0	
		07:00 to 12:00	3275	60	3215	258	2957	0	
		12:00 to 17:00	3240	60	3180	258	2922	0	
		17:00 to 21:00	3200	60	3140	258	2882	0	
		21:00 to 24:00	3265	60	3205	258	2947	0	
NR	01 Apr to 30 Apr	00:00 to 06:00	3600	500	3100	1357	1743	0	
		06:00 to 18:00	3600	500	3100	7025	0	0	
		18:00 to 24:00	3600	500	3100	1357	1743	0	
SR	01 Apr to 30 Apr	00:00 to 06:00	6350	650	5700	1970	3730	0	
		06:00 to 18:00	6350	650	5700	2320	3380	0	
		18:00 to 24:00	6350	650	5700	1970	3730	0	
WR	01 Apr to 30 Apr	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 Vindhyachal-Varanasi will overload the other circuit	0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	0
ER-NR	Inter-regional flow pattern towards NR	0
WR-SR	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	0
ER-SR	Low Voltage at Gazuwaka (East) Bus.	0
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
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	0
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
NR_IMPORT	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0
NR_EXPORT	(N-1) Contingency of 400 kV Banaskantha - Veloda D/C (n-1) contingency of 400 kV Saranath-Pusauli	0
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	0
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
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
SR_EXPORT	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt	0

Revision Summary

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

BASECASE LGBR					
S.No.	Name of State/Region	Load	Month:	Apr'23	
		Peak Load (MW)	Generation	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	6187	4320	4431	2467
2	Haryana	6301	4633	2327	2029
3	Rajasthan	14634	8276	8964	6149
4	Delhi	4138	1632	530	506
5	Uttar Pradesh	15439	10852	10732	7505
6	Uttarakhand	1894	1473	383	297
7	Himachal Pradesh	1707	1017	546	240
8	Jammu & Kashmir	2488	2157	236	227
9	Chandigarh	197	89	0	0
10	ISGS/IPPs	53	52	21207	9340
	Total NR	53038	34501	49356	28761
II	EASTERN REGION				
1	Bihar	4303	3220	484	409
2	Jharkhand	1498	1268	436	409

3	Damodar Valley Corporation	3224	3002	5182	4218
4	Odisha	5447	4870	3217	2628
5	West Bengal	5848	4471	5542	4582
6	Sikkim	103	55	0	0
7	Bhutan	57	56	107	68
8	ISGS/IPPs	748	698	14253	11518
	Total ER	21230	17642	29221	23833
III	WESTERN REGION				
1	Maharashtra	24497	17173	16678	12825
2	Gujarat	18565	15139	8330	8534
3	Madhya Pradesh	15672	9581	6140	4836
4	Chattisgarh	4723	3510	2439	2625
5	Daman and Diu	0	0	0	0
6	Dadra and Nagar Haveli	903	910	0	0
7	Goa-WR	538	427	0	0
8	ISGS/IPPs	5326	4186	46483	31327
	Total WR	70222	50926	80070	60147
IV	SOUTHERN REGION				
1	Andhra Pradesh	10976	7444	6488	4721
2	Telangana	12210	9955	7160	4955
3	Karnataka	13204	8407	7228	5718
4	Tamil Nadu	16464	13330	9475	5630
5	Kerala	3474	3023	1037	583
6	Pondy	385	377	0	0
7	Goa-SR	90	88	0	0
8	ISGS/IPPs	0	0	19219	15358
	Total SR	56804	42625	50606	36964
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	94	7	7
2	Assam	1193	1068	289	292
3	Manipur	188	118	0	0
4	Meghalaya	367	288	100	24
5	Mizoram	92	63	33	54
6	Nagaland	160	162	18	17
7	Tripura	214	229	164	159
8	ISGS/IPPs	0	0	2248	2153
	Total NER	2338	2022	2859	2707
	Total All India	203632	147716	212112	152412