

National Load Despatch Centre Total Transfer Capability for Dec 2023									
Issue Date:Sep 27 2023				Issue Time:16:22:39				Revision No :2	
Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	LTA/MTOA	STOA	Changes w.r.t. Previous Revision	Comment
ER-NER	01 Dec to 31 Dec	00:00 to 07:00	1200	60	1140	460	680	0	
		07:00 to 12:00	1080	60	1020	460	560	0	
		12:00 to 18:00	1000	60	940	460	480	0	
		18:00 to 22:00	800	60	740	460	280	0	
		22:00 to 24:00	1200	60	1140	460	680	0	
ER-NR	01 Dec to 31 Dec	00:00 to 24:00	8000	400	7600	5097	2503	0	
ER-SR	01 Dec to 31 Dec	00:00 to 06:00	5700	350	5350	3078	2272	0	
		06:00 to 18:00	5700	350	5350	3143	2207	0	
		18:00 to 24:00	5700	350	5350	3078	2272	0	
ER-W3	01 Dec to 31 Dec	00:00 to 24:00	No limit is being specified.						
ER-WR	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		NA		0	
NER-ER	01 Dec to 31 Dec	00:00 to 07:00	3480	60	3420	116	3304	0	
		07:00 to 12:00	3480	60	3420	116	3304	0	
		12:00 to 18:00	3480	60	3420	116	3304	0	
		18:00 to 22:00	3480	60	3420	116	3304	0	
		22:00 to 24:00	3480	60	3420	116	3304	0	
NR-ER	01 Dec to 31 Dec	00:00 to 06:00	4000	300	3700	125	3575	0	
		06:00 to 18:00	4000	300	3700	1990	1710	0	
		18:00 to 24:00	4000	300	3700	125	3575	0	
NR-WR	01 Dec	00:00 to 06:00	4000	500	3500	1547	1953	0	

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	LTA/MTOA	STOA	Changes w.r.t. Previous Revision	Comment
	to 31 Dec	06:00 to 18:00	4000	500	3500	6089	0	0	
		18:00 to 24:00	4000	500	3500	1547	1953	0	
SR-ER	01 Dec to 31 Dec	00:00 to 24:00	No limit is being specified.						
SR-WR	01 Dec to 31 Dec	00:00 to 06:00	6000	650	5350	650	4700	0	
		06:00 to 18:00	7650	650	7000	850	6150	0	
		18:00 to 24:00	6000	650	5350	650	4700	0	
W3 Injection	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		NA		0	
W3-ER	01 Dec to 31 Dec	00:00 to 24:00	No limit is being specified.						
WR-ER	01 Dec to 31 Dec	00:00 to 06:00	5500	300	5200	990	4210	0	
		06:00 to 18:00	5500	300	5200	1040	4160	0	
		18:00 to 24:00	5500	300	5200	990	4210	0	
WR-NR	01 Dec to 31 Dec	00:00 to 06:00	17800	1000	16800	11474	5326	0	Change in STOA margin due to decrease in the LTA quantum by 2.2 MW from NETRA_KOTDA_BHUI_W to Haryana
		06:00 to 18:00	17800	1000	16800	11798	5002	0	
		18:00 to 24:00	17800	1000	16800	11474	5326	0	
WR-SR	01 Dec to 31 Dec	00:00 to 06:00	11600	650	10950	3738	7212	0	
		06:00 to 18:00	11600	650	10950	4840	6110	0	
		18:00 to 24:00	11600	650	10950	3738	7212	0	

- Based on the actual distribution of corridor flows, Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- 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.

- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- 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) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, L)DB Power, m) REGL (Previously KWPC), m)RKM, o)REL, p) Bharat Aluminium, q)MCCPL, r)SKS, s) TRN, t)NTPC Lara, u) Adani Power Limited Raipur 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 Grid-India/NLDC "News Update" (Flasher) Section

Simultaneous Import Capability

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	LTA/MTOA	STOA	Changes w.r.t. Previous Revision	Comment
ER	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		NA		0	
NER	01 Dec to 31 Dec	00:00 to 07:00	1200	60	1140	460	680	0	
		07:00 to 12:00	1080	60	1020	460	560	0	
		12:00 to 18:00	1000	60	940	460	480	0	
		18:00 to 22:00	800	60	740	460	280	0	
		22:00 to 24:00	1200	60	1140	460	680	0	
NR	01 Dec to 31 Dec	00:00 to 06:00	25800	1400	24400	16571	7829	0	Change in STOA margin due to decrease in the LTA quantum by 2.2 MW from NETRA_KOTDA_BHUJ_W to Haryana
		06:00 to 18:00	25800	1400	24400	16895	7505	0	
		18:00 to 24:00	25800	1400	24400	16571	7829	0	
SR	01 Dec to 31 Dec	00:00 to 06:00	17300	1000	16300	6816	9484	0	
		06:00 to 18:00	17300	1000	16300	7983	8317	0	
		18:00 to 24:00	17300	1000	16300	6816	9484	0	
WR	01 Dec to 31 Dec	00:00 to 24:00	NA	NA			0	0	

- Based on the actual distribution of corridor flows, Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- 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.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- 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) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, L)DB Power, m) REGL (Previously KWPC), n)RKM, o)REL, p) Bharat Aluminium, q)MCCPL, r)SKS, s) TRN, t)NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
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Simultaneous Export Capability

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	LTA/MTOA	STOA	Changes w.r.t. Previous Revision	Comment
ER	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		NA		0	
NER	01 Dec to 31 Dec	00:00 to 07:00	3480	60	3420	116	3304	0	
		07:00 to 12:00	3480	60	3420	116	3304	0	
		12:00 to 18:00	3480	60	3420	116	3304	0	
		18:00 to 22:00	3480	60	3420	116	3304	0	
		22:00 to 24:00	3480	60	3420	116	3304	0	
NR	01 Dec to 31 Dec	00:00 to 06:00	4000	500	3500	1672	1828	0	
		06:00 to 18:00	4000	500	3500	8079	0	0	
		18:00 to 24:00	4000	500	3500	1672	1828	0	
SR	01 Dec to 31 Dec	00:00 to 06:00	5150	650	4500	2018	2482	0	
		06:00 to 18:00	6600	650	5950	2369	3581	0	
		18:00 to 24:00	5150	650	4500	2018	2482	0	
WR	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		NA		0	

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Limiting Constraints

Corridor	Constraints	Revisions
WR-NR	N-1 contingency of one ckt of 765 kV Vindhyaachal-Varanasi will overload the other circuit	0-2
NR-ER	1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka –Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2	0-2
WR-ER	1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka –Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2	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) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section – A at Raigarh - PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direct ion (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section – B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direct ion (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar & vice-versa	0-2
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil 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 Vindhyaachal-Varanasi will overload the other circuit	0-2
NR_EXPORT	(N-1) Contingency of 400 kV Kankroli-Zerda-S/C will overload 400 kV Bhinmal-Zerda-S/C	0-2
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil 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	a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section – A at Raigarh - PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direct ion (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section – B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direct ion (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar & vice-versa	0-2

Revision Summary

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
1	19 Sep	01 Dec to 31 Dec	TTC/ATC revised due to the change in LGB and network augmentation	SR-WR
		01 Dec to 31 Dec	TTC/ATC revised due to the change in LGB and network augmentation	SR_EXPORT
2	27 Sep	01 Dec to 31 Dec	Change in STOA margin due to decrease in the LTA quantum by 2.2 MW from NETRA_KOTDA_BHUJ_W to Haryana	WR-NR
		01 Dec to 31 Dec	Change in STOA margin due to decrease in the LTA quantum by 2.2 MW from NETRA_KOTDA_BHUJ_W to Haryana	NR_IMPORT

BASECASE LGBR					
S.No.	Name of State/Region	Load		Month:	Dec'23
		Peak Load (MW)	Off Peak Load (MW)	Generation	
		Peak (MW)	Off Peak (MW)	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