

National Load Despatch Centre Total Transfer Capability for Dec 2023										
Issue Date:Nov 29 2023				Issue Time:18:31:01				Revision No :4		
Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment	
ER-NER	01 Dec to 31 Dec	00:00 to 17:00	1950	60	1890	NA		750	Due to change in Load - Generation Balance in NER	
		17:00 to 21:00	1600	60	1540	NA		600		
		21:00 to 24:00	1950	60	1890	NA		1150		
ER-NR	01 Dec to 01 Dec	00:00 to 08:00	8000	400	7600	NA		0		
		08:00 to 24:00	7800	400	7400	NA		-200	Due to the shutdown of HVDC Mundra - Mohindergarh Pole - 2	
	02 Dec to 31 Dec	00:00 to 24:00	8000	400	7600	NA		0		
ER-SR	01 Dec to 01 Dec	00:00 to 07:00	6000	350	5650	NA		0		
		07:00 to 18:00	5950	350	5600	NA		-50	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	
		18:00 to 24:00	5950	350	5600	NA		-50		
	02 Dec to 05 Dec	00:00 to 06:00	5950	350	5600	NA		-50	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	
		06:00 to 18:00	5950	350	5600	NA		-50		
		18:00 to 24:00	5950	350	5600	NA		-50		
	06 Dec to 31 Dec	00:00 to 06:00	6000	350	5650	NA		0		
		06:00 to 18:00	6000	350	5650	NA		0		
		18:00 to 24:00	6000	350	5650	NA		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 17:00	2900	60	2840	NA		-580	Due to change in Load - Generation Balance in NER	
		17:00 to 21:00	2900	60	2840	NA		-580		
		21:00 to 24:00	2900	60	2840	NA		-580		
NR-ER	01 Dec to 31 Dec	00:00 to 06:00	4000	300	3700	NA		0		
		06:00 to 18:00	4000	300	3700	NA		0		
		18:00 to 24:00	4000	300	3700	NA		0		
NR-WR	01 Dec to 31 Dec	00:00 to 06:00	4000	500	3500	NA		0		
		06:00 to 18:00	4000	500	3500	NA		0		

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment
		18:00 to 24:00	4000	500	3500	NA		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	NA		0	
		06:00 to 18:00	7650	650	7000	NA		0	
		18:00 to 24:00	6000	650	5350	NA		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	NA		0	
		06:00 to 18:00	5500	300	5200	NA		0	
		18:00 to 24:00	5500	300	5200	NA		0	
WR-NR	01 Dec to 01 Dec	00:00 to 06:00	17800	1000	16800	NA		0	
		06:00 to 08:00	17800	1000	16800	NA		0	
		08:00 to 18:00	17100	1000	16100	NA		-700	Due to the shutdown of HVDC Mundra - Mohindergarh Pole - 2
		18:00 to 24:00	17100	1000	16100	NA		-700	
	02 Dec to 31 Dec	00:00 to 06:00	17800	1000	16800	NA		0	
		06:00 to 18:00	17800	1000	16800	NA		0	
		18:00 to 24:00	17800	1000	16800	NA		0	
WR-SR	01 Dec to 01 Dec	00:00 to 06:00	14700	650	14050	NA		0	
		06:00 to 07:00	14700	650	14050	NA		0	
		07:00 to 18:00	14250	650	13600	NA		-450	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2
		18:00 to 24:00	14250	650	13600	NA		-450	
	02 Dec to 05 Dec	00:00 to 06:00	14250	650	13600	NA		-450	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2
		06:00 to 18:00	14250	650	13600	NA		-450	
		18:00 to 24:00	14250	650	13600	NA		-450	
	06 Dec to 31 Dec	00:00 to 06:00	14700	650	14050	NA		0	
		06:00 to 18:00	14700	650	14050	NA		0	
		18:00 to 24:00	14700	650	14050	NA		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
- 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)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment	
ER	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		3088	NA	0		
NER	01 Dec to 31 Dec	00:00 to 17:00	1450	60	1390	446	944	250	Due to change in Load - Generation Balance in NER	
		17:00 to 21:00	1100	60	1040	446	594	100		
		21:00 to 24:00	1450	60	1390	446	944	650		
NR	01 Dec to 01 Dec	00:00 to 06:00	25800	1400	24400	17170	7230	0		
		06:00 to 08:00	25800	1400	24400	17170	7230	0		
		08:00 to 18:00	24900	1400	23500	17170	6330	-900	Due to the shutdown of HVDC Mundra - Mohindergarh Pole - 2	
		18:00 to 24:00	24900	1400	23500	17170	6330	-900		
	02 Dec to 31 Dec	00:00 to 06:00	25800	1400	24400	17170	7230	0		
		06:00 to 18:00	25800	1400	24400	17170	7230	0		
		18:00 to 24:00	25800	1400	24400	17170	7230	0		
	SR	01 Dec to 01 Dec	00:00 to 07:00	20700	1000	19700	6601	13099	0	
			07:00 to 18:00	20200	1000	19200	6601	12599	-500	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2
18:00 to 24:00			20200	1000	19200	6601	12599	-500		
02 Dec to 05 Dec		00:00 to 07:00	20200	1000	19200	6601	12599	-500		
		07:00 to 24:00	20200	1000	19200	6601	12599	-500		
06 Dec to 31 Dec		00:00 to 06:00	20700	1000	19700	6601	13099	0		
		06:00 to 18:00	20700	1000	19700	6601	13099	0		
		18:00 to 24:00	20700	1000	19700	6601	13099	0		
WR		01 Dec to 31	00:00 to 24:00	NA	NA		4941	NA	0	

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment
	Dec								
									<ul style="list-style-type: none"> <li>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.</li> <li>The approved GNA quantum for any regional import corridor mentioned here is the summation of approved GNA of the states falling the region from outside that region. The data is as per the latest available figures from the CTUIL website.</li> <li>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.</li> <li>S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala</li> <li>W3 comprises of the following regional entities : a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I &amp; 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 &amp; III, j) NTPC Sipat I &amp; 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</li> <li>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.</li> <li>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.</li> <li>Real Time TTC/ATC revisions are uploaded on Grid-India/NLDC "News Update" (Flasher) Section</li> </ul>

### Simultaneous Export Capability

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	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 17:00	3400	60	3340	NA		-80	Due to change in Load - Generation Balance in NER
		17:00 to 21:00	3400	60	3340	NA		-80	
		21:00 to 24:00	3400	60	3340	NA		-80	
NR	01 Dec to 31 Dec	00:00 to 06:00	4000	500	3500	NA		0	
		06:00 to 18:00	4000	500	3500	NA		0	
		18:00 to 24:00	4000	500	3500	NA		0	
SR	01 Dec to 31 Dec	00:00 to 06:00	5150	650	4500	NA		0	
		06:00 to 18:00	6600	650	5950	NA		0	
		18:00 to 24:00	5150	650	4500	NA		0	
WR	01 Dec to 31 Dec	00:00 to 24:00	NA	NA		NA		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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## Limiting Constraints

Corridor	Constraints	Revisions
WR-NR	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-5,3-4
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	0-5,3-4
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	0-5,3-4
ER-NR	Inter-regional flow pattern towards NR	0-5,3-4
WR-SR	Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Nizamabad overloads the other ICT	0-5,3-4
ER-SR	1. Outage of any one circuit of the 765 kV Angul – Srikakulam D/C overloads the other circuit 2. Low Voltage at Gazuwaka (East) Bus.	0-5,3-4
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 Direction (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 Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa	1-5,3-4
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-5,3-4
NER-ER	a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon- New Siliguri DC	0-5,3-4
NR_IMPORT	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-5,3-4
NR_EXPORT	(N-1) Contingency of 400 kV Kankroli-Zerda-S/C will overload 400 KV Bhinmal-Zerda-S/C	0-5,3-4
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-5,3-4
NER_EXPORT	a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon- New Siliguri DC	0-5,3-4
SR_IMPORT	1. Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Nizamabad overloads the other ICT 2. Outage of any one circuit of the 765 kV Angul – Srikakulam D/C overloads the other circuit 3. Low Voltage at Gazuwaka (East) Bus	0-5,3-4
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 Direction (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 Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa	1-5,3-4

## 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
3	28 Oct	01 Dec to 31 Dec	TTC/ATC increased due to the the commissioning of 765 kV Warora (Pool) –Warangal (New) D/C and associated system	WR-SR
		01 Dec to 31 Dec	TTC/ATC increased due to the the commissioning of 765 kV Warora (Pool) –Warangal (New) D/C and associated system	ER-SR
		01 Dec to 31 Dec	TTC/ATC increased due to the the commissioning of 765 kV Warora (Pool) –Warangal (New) D/C and associated system	SR_IMPORT
4	29 Nov	01 Dec to 01 Dec	Due to the shutdown of HVDC Mundra - Mohindergarh Pole - 2	WR-NR
		01 Dec to 01 Dec	Due to the shutdown of HVDC Mundra - Mohindergarh Pole - 2	ER-NR

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
		01 Dec to 01 Dec	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	WR-SR
		02 Dec to 05 Dec	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	WR-SR
		01 Dec to 01 Dec	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	ER-SR
		02 Dec to 05 Dec	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	ER-SR
		01 Dec to 31 Dec	Due to change in Load - Generation Balance in NER	ER-NER
		01 Dec to 31 Dec	Due to change in Load - Generation Balance in NER	NER-ER
		01 Dec to 01 Dec	Due to the shutdown of HVDC Mundra - Mohindergarh Pole - 2	NR_IMPORT
		01 Dec to 31 Dec	Due to change in Load - Generation Balance in NER	NER_IMPORT
		01 Dec to 01 Dec	Due to the shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	SR_IMPORT
		01 Dec to 31 Dec	Due to change in Load - Generation Balance in NER	NER_EXPORT

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)
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