

National Load Despatch Centre Total Transfer Capability for Sep 2024										
Issue Date:Sep 04 2024				Issue Time:10:32:35				Revision No :13		
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 Sep to 30 Sep	00:00 to 17:00	2000	60	1940	NA		0		
		17:00 to 21:00	1560	60	1500	NA		0		
		21:00 to 24:00	1940	60	1880	NA		0		
ER-NR	01 Sep to 03 Sep	00:00 to 24:00	6700	400	6300	NA		0		
	04 Sep to 04 Sep	00:00 to 24:00	6350	400	5950	NA		0		
	05 Sep to 05 Sep	00:00 to 09:00	6350	400	5950	NA		0		
		09:00 to 24:00	6000	400	5600	NA		0		
	06 Sep to 09 Sep	00:00 to 24:00	6000	400	5600	NA		0		
	10 Sep to 10 Sep	00:00 to 24:00	6350	400	5950	NA		0		
	11 Sep to 30 Sep	00:00 to 24:00	6700	400	6300	NA		0		
ER-SR	01 Sep to 02 Sep	00:00 to 24:00	6200	350	5850	NA		0		
	03 Sep to 03 Sep	00:00 to 09:00	6200	350	5850	NA		0		
		09:00 to 24:00	6200	350	5850	NA		0		
	04 Sep to 30 Sep	00:00 to 24:00	6200	350	5850	NA		0		
ER-W3	01 Sep to 30 Sep	00:00 to 24:00	No limit is being specified.							
ER-WR	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0		
NER-ER	01 Sep to 30 Sep	00:00 to 24:00	3200	60	3140	NA		0		
NR-ER	01 Sep to 30 Sep	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 Sep to 30 Sep	00:00 to 06:00	6000	500	5500	NA		0		
		06:00 to 18:00	6000	500	5500	NA		0		
		18:00 to 24:00	6000	500	5500	NA		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 06:00	7200	650	6550	NA		0		
		06:00 to 18:00	7100	650	6450	NA		0		
		18:00 to 24:00	7200	650	6550	NA		0		
W3 Injection	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		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	
W3-ER	01 Sep to 30 Sep	00:00 to 24:00	No limit is being specified.							
WR-ER	01 Sep to 30 Sep	00:00 to 24:00	5500	300	5200	NA		0		
WR-NR	01 Sep to 03 Sep	00:00 to 09:00	23600	1000	22600	NA		0		
		09:00 to 15:00	18450	1000	17450	NA		0		
		15:00 to 16:00	19550	1000	18550	NA		0		
		16:00 to 24:00	23600	1000	22600	NA		0		
	04 Sep to 04 Sep	00:00 to 09:00	22150	1000	21150	NA		0		
		09:00 to 15:00	17000	1000	16000	NA		0		
		15:00 to 16:00	18100	1000	17100	NA		0		
		16:00 to 24:00	22150	1000	21150	NA		0		
	05 Sep to 05 Sep	00:00 to 09:00	23350	1000	22350	NA		1200	TTC/ATC revised due to change in LGB	
		09:00 to 15:00	14450	1000	13450	NA		0		
		15:00 to 16:00	15550	1000	14550	NA		0		
		16:00 to 24:00	20800	1000	19800	NA		1200		
	06 Sep to 09 Sep	00:00 to 09:00	20800	1000	19800	NA		1200		
		09:00 to 15:00	14450	1000	13450	NA		0		
		15:00 to 16:00	15550	1000	14550	NA		0		
		16:00 to 24:00	20800	1000	19800	NA		1200		
	10 Sep to 10 Sep	00:00 to 09:00	23350	1000	22350	NA		1200		
		09:00 to 15:00	17000	1000	16000	NA		0		
		15:00 to 16:00	18100	1000	17100	NA		0		
		16:00 to 24:00	23350	1000	22350	NA		1200		
	11 Sep to 30 Sep	00:00 to 09:00	24800	1000	23800	NA		1200		
		09:00 to 15:00	18450	1000	17450	NA		0		
		15:00 to 16:00	19550	1000	18550	NA		0		
		16:00 to 24:00	24800	1000	23800	NA		1200		
	WR-SR	01 Sep to 30 Sep	00:00 to 24:00	15900	650	15250	NA		0	

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- 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 GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units 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 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	
NER	01 Sep to 30 Sep	00:00 to 17:00	1500	60	1440	824	616	0	
		17:00 to 21:00	1120	60	1060	824	236	0	
		21:00 to 24:00	1500	60	1440	824	616	0	
NR	01 Sep to 03 Sep	00:00 to 09:00	27200	1400	25800	NA		0	
		09:00 to 15:00	19650	1400	18250	NA		0	
		15:00 to 16:00	20750	1400	19350	NA		0	
		16:00 to 24:00	27200	1400	25800	NA		0	
	04 Sep to 04 Sep	00:00 to 09:00	25400	1400	24000	NA		0	
		09:00 to 15:00	17850	1400	16450	NA		0	
		15:00 to 16:00	18950	1400	17550	NA		0	
		16:00 to 24:00	25400	1400	24000	NA		0	
	05 Sep to 05 Sep	00:00 to 09:00	26600	1400	25200	NA		1200	TTC/ATC revised due to change in LGB
		09:00 to 15:00	14950	1400	13550	NA		0	
		15:00 to 16:00	16050	1400	14650	NA		0	
		16:00 to 24:00	23700	1400	22300	NA		1200	
	06 Sep to 09 Sep	00:00 to 09:00	23700	1400	22300	NA		1200	
		09:00 to 15:00	14950	1400	13550	NA		0	
		15:00 to 16:00	16050	1400	14650	NA		0	
		16:00 to 24:00	23700	1400	22300	NA		1200	
	10 Sep to 10 Sep	00:00 to 09:00	26600	1400	25200	NA		1200	
		09:00 to 15:00	17850	1400	16450	NA		0	
		15:00 to 16:00	18950	1400	17550	NA		0	
		16:00 to 24:00	26600	1400	25200	NA		1200	
11 Sep to 30 Sep	00:00 to 09:00	28400	1400	27000	NA		1200		

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		09:00 to 15:00	19650	1400	18250	NA		0	
		15:00 to 16:00	20750	1400	19350	NA		0	
		16:00 to 24:00	28400	1400	27000	NA		1200	
SR	01 Sep to 02 Sep	00:00 to 24:00	22100	1000	21100	7601	13499	0	
	03 Sep to 03 Sep	00:00 to 09:00	22100	1000	21100	7601	13499	0	
		09:00 to 24:00	22100	1000	21100	7601	13499	0	
	04 Sep to 30 Sep	00:00 to 24:00	22100	1000	21100	7601	13499	0	
WR	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	

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- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units 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.
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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 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	
NER	01 Sep to 30 Sep	00:00 to 24:00	3200	60	3140	NA		0	
NR	01 Sep to 30 Sep	00:00 to 06:00	6000	500	5500	NA		0	
		06:00 to 18:00	6000	500	5500	NA		0	
		18:00 to 24:00	6000	500	5500	NA		0	
SR	01 Sep to 30 Sep	00:00 to 24:00	6400	650	5750	NA		0	
WR	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	

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Limiting Constraints

Corridor	Constraints	Revisions
WR-NR	1. N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit 2. Low Voltages in major load Centers in the northern region during solar hours. 3. High loading of 765 KV Aligarh-Gr. Noida under N-1 contingency of 765 KV Bara-Mainpuri ckt	0-13
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	0-13
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	0-13
ER-NR	Inter-regional flow pattern towards NR	0-13
WR-SR	Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT	0-13
ER-SR	1. Low Voltage at Gazuwaka (East) Bus.	0-13
SR-WR	a) Angular separation between Kudgi & Kolhapur (PG) under N-1 touches 30 deg. b) N-1 Contingency of 765/400 kV, 1500 MVA ICTs at Raichur - PG will overload the other circuit. c) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar & and vice-versa. d) N-1 Contingency of 400 kV Kolhapur – Karad D/C will overload the other circuit. e) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh – PS (Kotra) with operation of HVDC Raigarh – Pugalur Bipole – 1 in SR-WR direction f) Restriction in power order of HVDC Gazuwaka(SR to ER) to maximum set point of 700 MW for solar hrs and 500 MW for non-solar hrs against the rated capacity of 1000 MW	0-13
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line will lead to high Loading of 220 kV Balipara-Sonabil-I & II	0-13
NER-ER	N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II will lead to High Loading of 400 kV Bongaigaon- New Siliguri I & II	0-13
NR_IMPORT	1. N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit 2. Low Voltages in major load Centers in the northern region during solar hours. 3. High loading of 765 KV Aligarh-Gr. Noida under N-1 contingency of 765 KV Bara-Mainpuri ckt 4. Inter-regional flow pattern towards NR	0-13
NR_EXPORT	Outage of the longer circuit from 400 kV Kankroli to Zerda (Bypassed at Bhinmal) will overload the shorter circuit (Direct Line)	0-13
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-13
NER_EXPORT	N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II will lead to High Loading of 400 kV Bongaigaon- New Siliguri I & II	0-13
SR_IMPORT	1. Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT 2. Low Voltage at Gazuwaka (East) Bus	0-13
SR_EXPORT	a) Angular separation between Kudgi & Kolhapur (PG) under N-1 touches 30 deg. b) N-1 Contingency of 765/400 kV, 1500 MVA ICTs at Raichur - PG will overload the other circuit. c) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar & and vice-versa. d) N-1 Contingency of 400 kV Kolhapur – Karad D/C will overload the other circuit. e) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh – PS (Kotra) with operation of HVDC Raigarh – Pugalur Bipole – 1 in SR-WR direction f) Restriction in power order of HVDC Gazuwaka(SR to ER) to maximum set point of 700 MW for solar hrs and 500 MW for non-solar hrs against the rated capacity of 1000 MW	0-13

Revision Summary

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
1	28 Dec	01 Sep to 30 Sep	Change in T-GNA Margin due to grant of additional 174 MW GNA to Uttar Pradesh from outside Northern Region	NR_IMPORT
		01 Sep to 30 Sep	Change in T-GNA Margin due to grant of additional 55 MW GNA to Mizoram from outside North Eastern Region	NER_IMPORT
2	26 Jan	01 Sep to 30 Sep	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	WR-NR
		01 Sep to 30 Sep	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	ER-NR
		01 Sep to 30 Sep	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	WR-SR
		01 Sep to 30 Sep	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	ER-SR
		01 Sep to 30 Sep	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	NR_IMPORT
		01 Sep to 30 Sep	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	SR_IMPORT
3	28 Feb	01 Sep to 30 Sep	Revised T-GNA margin due to approval of 500 MW GNA for Andhra Pradesh from Outside Southern Region	SR_IMPORT

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
4	28 Mar	01 Sep to 30 Sep	Enhancement in TTC due to Bypassing of 400 kV Kankroli - Bhinmal and 400 kV Bhinmal - Zerda at Bhinmal - PG (Temporary Arrangement) & revival of 400 KV Jodhpur-Kankroli-S/C after reconductoring	NR-WR
		01 Sep to 30 Sep	Enhancement in TTC due to Bypassing of 400 kV Kankroli - Bhinmal and 400 kV Bhinmal - Zerda at Bhinmal - PG (Temporary Arrangement) & revival of 400 KV Jodhpur-Kankroli-S/C after reconductoring	NR_EXPORT
5	28 Apr	01 Sep to 30 Sep	1. Revised T-GNA margin due to approval of 6.54 MW GNA for Arunachal Pradesh from Outside North-Eastern Region. 2. Revised T-GNA margin due to approval of 371 MW GNA for Assam from Outside North-Eastern Region	NER_IMPORT
		01 Sep to 30 Sep	Revised T-GNA margin due to approval of 25 MW GNA for Goa from Outside Western Region	WR_IMPORT
		01 Sep to 30 Sep	Revised T-GNA margin due to approval of 500 MW GNA for Karnataka from Outside Southern Region	SR_IMPORT
		01 Sep to 30 Sep	Revised T-GNA margin due to approval of 24 MW GNA for West Bengal from Outside Eastern Region	ER_IMPORT
6	30 Aug	01 Sep to 30 Sep	TTC/ATC revised due to shifting of Rihand-III generators to NR and Change in Load Generation Balance & inter-regional flow pattern.	WR-NR
		01 Sep to 30 Sep	TTC-ATC revised in WR-SR/SR Import by 200/200 MW due to the shutdown of 765KV-CUDDAPAH-THIRUVALAM-1 & 2	WR-SR
		01 Sep to 30 Sep	Due to change in LGB and HVDC set points	SR-WR
		01 Sep to 30 Sep	Due to change in LGB	ER-NER
		01 Sep to 30 Sep	TTC/ATC revised due to shifting of Rihand-III generators to NR and Change in Load Generation Balance & inter-regional flow pattern.	NR_IMPORT
		01 Sep to 30 Sep	Due to change in LGB	NER_IMPORT
		01 Sep to 30 Sep	TTC-ATC revised in WR-SR/SR Import by 200/200 MW due to the shutdown of 765KV-CUDDAPAH-THIRUVALAM-1 & 2	SR_IMPORT
		01 Sep to 30 Sep	Due to change in LGB	NER_EXPORT
		01 Sep to 30 Sep	TTC/ATC of SR-WR/SR Export has been revised based on the change in LGB and HVDC set points	SR_EXPORT
7	01 Sep	04 Sep to 04 Sep	Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2	ER-SR
		04 Sep to 04 Sep	Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2	SR_IMPORT
8	01 Sep	03 Sep to 03 Sep	Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2	ER-SR
		03 Sep to 03 Sep	Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2	SR_IMPORT
9	02 Sep	03 Sep to 03 Sep	Due to the deferral of the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2	ER-SR
		03 Sep to 03 Sep	Due to the deferral of the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2	SR_IMPORT
10	02 Sep	04 Sep to 10 Sep	Due to the non-availability of HVDC Mundra Mahendragarh	WR-NR
		04 Sep to 10 Sep	Due to the non-availability of HVDC Mundra Mahendragarh	ER-NR
		04 Sep to 10 Sep	Due to the non-availability of HVDC Mundra Mahendragarh	NR_IMPORT
11	03 Sep	05 Sep to 05 Sep	Due to shutdown of HVDC 800 KV HVDC KURUKSHETRA(PG) POLE-1 & 2	WR-NR
		05 Sep to 05 Sep	Due to shutdown of HVDC 800 KV HVDC KURUKSHETRA(PG) POLE-1 & 2	ER-NR
		05 Sep to 05 Sep	Due to shutdown of HVDC 800 KV HVDC KURUKSHETRA(PG) POLE-1 & 2	NR_IMPORT
12	04 Sep	05 Sep to 05 Sep	TTC/ATC revised due to change in LGB	WR-NR
		05 Sep to 05 Sep	TTC/ATC revised due to change in LGB	NR_IMPORT

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13	04 Sep	05 Sep to 05 Sep	TTC/ATC revised due to change in LGB	WR-NR
		05 Sep to 05 Sep	TTC/ATC revised due to change in LGB	NR_IMPORT

ASSUMPTIONS IN BASECASE					
Month : Sep'24					
S.No.	Name of State/Area	Demand		Generation	
		Non-Solar Peak(MW)	Solar Peak (MW)	Non-Solar Peak(MW)	Solar Peak (MW)
I	NORTHERN REGION				
1	Punjab	7031	7510	4881	4940
2	Haryana	7418	7386	3037	3499
3	Rajasthan	13248	16311	8225	10042
4	Delhi	4405	5136	564	545
5	Uttar Pradesh	22062	18685	10734	11973
6	Uttarakhand	2375	2108	694	463
7	Himachal Pradesh	1985	1936	474	302
8	Jammu & Kashmir	3311	2984	264	206
9	Chandigarh	266	258	0	0
10	ISGS/PPs	105	105	18638	22308
	Total NR	62206	62419	47511	54278
II	EASTERN REGION				
1	Bihar	5063	4065	464	458
2	Jharkhand	1407	1559	410	365
3	Damodar Valley Corporation	3416	3284	5273	5244
4	Orissa	5269	4919	3608	3496
5	West Bengal	7175	6925	6049	5781
6	Sikkim	116	109	0	0
7	Bhutan	32	50	107	228
8	ISGS/PPs	928	917	18890	15263
	Total ER	23406	21828	34802	30835
III	WESTERN REGION				
1	Maharashtra	24878	25141	15943	16380
2	Gujarat	18292	17984	6324	6349
3	Madhya Pradesh	15567	16371	6053	6073
4	Chattisgarh	4447	4465	1823	1592
5	DD & DNH	984	867	0	0
6	Goa-WR	660	554	0	0
7	ISGS/PPs	2463	1937	53004	49159
	Total WR	67290	67320	83147	79553
IV	SOUTHERN REGION				
1	Andhra Pradesh	8005	10681	6952	8203
2	Telangana	10834	14680	5212	6980
3	Karnataka	12118	15214	6579	9390
4	Tamil Nadu	16381	16743	6524	9609
5	Kerala	4221	3432	1510	340
6	Pondy	493	494	0	0
7	Goa-SR	109	109	0	0
8	ISGS/PPs	0	0	19847	21748
	Total SR	52162	61353	46623	56270
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	166	101	0	0

2	Assam	1441	1146	275	428
3	Manipur	262	139	0	0
4	Meghalaya	471	350	144	12
5	Mizoram	171	141	33	8
6	Nagaland	158	120	15	7
7	Tripura	369	318	190	187
8	ISGS/IPPs	0	0	3308	2557
	Total NER	3038	2314	3964	3200
	Total All India	208065	215177	215925	223878