

National Load Despatch Centre Total Transfer Capability for Sep 2024									
Issue Date:Sep 01 2024				Issue Time:16:11:46				Revision No :8	
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 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	4300	350	3950	NA		-1900	Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2
	04 Sep to 30 Sep	00:00 to 24:00	4300	350	3950	NA		-1900	
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	
W3-ER	01 Sep to 30 Sep	00:00 to 24:00	No limit is being specified.						
WR-ER	01 Sep to 30	00:00 to 24:00	5500	300	5200	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
	Sep								
WR-NR	01 Sep to 30 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	
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.
- 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 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 30 Sep	00:00 to 09:00	27200	1000	26200	NA		0	
		09:00 to 15:00	19650	1000	18650	NA		0	
		15:00 to 16:00	20750	1000	19750	NA		0	
		16:00 to 24:00	27200	1000	26200	NA		0	
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	20200	1000	19200	7601	11599	-1900	Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2
	04 Sep to 30 Sep	00:00 to 24:00	20200	1000	19200	7601	11599	-1900	

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
WR	01 Sep to 30 Sep	00:00 to 24:00	NA	NA		NA		0	
<ul style="list-style-type: none"> <li>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.</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 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.</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 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	
<ul style="list-style-type: none"> <li>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.</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 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.</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>									

### Limiting Constraints

Corridor	Constraints	Revisions
WR-NR	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-8
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	0-8

Corridor	Constraints	Revisions
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	0-8
ER-NR	Inter-regional flow pattern towards NR	0-8
WR-SR	Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT	0-8
ER-SR	1. Low Voltage at Gazuwaka (East) Bus.	0-8
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	0-8
ER-NER	N-1 contingency of 400 kV Bongaigaon - Azara line will overload 220 kV Balipara-Sonabil and vice-versa	0-8
NER-ER	a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon-Alipurduar II or I	0-8
NR_IMPORT	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-8
NR_EXPORT	Outage of any one of the two circuits from 400 kV Kankroli to 400 kV Zerda shall overload the other circuit.	0-8
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-8
NER_EXPORT	a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon-Alipurduar II or I	0-8
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	0-8
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	0-8

## 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
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

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
		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

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/IPPs	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/IPPs	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/IPPs	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/IPPs	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