

National Load Despatch Centre Total Transfer Capability for Feb 2024										
Issue Date:Jan 30 2024				Issue Time:17:26:21				Revision No :3		
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 Feb to 29 Feb	00:00 to 17:00	2400	60	2340	NA		550	Change in load generation pattern of NE region	
		17:00 to 21:00	2050	60	1990	NA		480		
		21:00 to 24:00	2400	60	2340	NA		550		
ER-NR	01 Feb to 29 Feb	00:00 to 24:00	6700	400	6300	NA		0		
ER-SR	01 Feb to 03 Feb	00:00 to 06:00	4250	350	3900	NA		-1950	TTC-ATC revised due to shutdown of HVDC Talcher - Kolar Bipole	
		06:00 to 18:00	4250	350	3900	NA		-1950		
		18:00 to 24:00	4250	350	3900	NA		-1950		
	04 Feb to 29 Feb	00:00 to 06:00	6200	350	5850	NA		0		
		06:00 to 18:00	6200	350	5850	NA		0		
		18:00 to 24:00	6200	350	5850	NA		0		
ER-W3	01 Feb to 29 Feb	00:00 to 24:00	No limit is being specified.							
ER-WR	01 Feb to 29 Feb	00:00 to 24:00	NA	NA		NA		0		
NER-ER	01 Feb to 29 Feb	00:00 to 17:00	2500	60	2440	NA		-400	Change in load generation pattern of NE region	
		17:00 to 21:00	2500	60	2440	NA		-400		
		21:00 to 24:00	2500	60	2440	NA		-400		
NR-ER	01 Feb to 29 Feb	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 Feb to 29 Feb	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-ER	01 Feb to 29 Feb	00:00 to 24:00	No limit is being specified.							
SR-WR	01 Feb to 29 Feb	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 Feb to 29	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
	Feb								
W3-ER	01 Feb to 29 Feb	00:00 to 24:00	No limit is being specified.						
WR-ER	01 Feb to 29 Feb	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 Feb to 29 Feb	00:00 to 06:00	19200	1000	18200	NA		0	
		06:00 to 18:00	19200	1000	18200	NA		0	
		18:00 to 24:00	19200	1000	18200	NA		0	
WR-SR	01 Feb to 29 Feb	00:00 to 06:00	16100	650	15450	NA		0	
		06:00 to 18:00	16100	650	15450	NA		0	
		18:00 to 24:00	16100	650	15450	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 Feb to 29 Feb	00:00 to 24:00	NA	NA		3088	0	0	
NER	01 Feb to 29 Feb	00:00 to 17:00	1900	60	1840	446	1394	550	Change in load generation pattern of NE region
		17:00 to 21:00	1550	60	1490	446	1044	480	
		21:00 to 24:00	1900	60	1840	446	1394	550	
NR	01 Feb to 29 Feb	00:00 to 06:00	25900	1400	24500	17344	7156	0	
		06:00 to 18:00	25900	1400	24500	17344	7156	0	
		18:00 to 24:00	25900	1400	24500	17344	7156	0	
SR	01 Feb to 03 Feb	00:00 to 06:00	20350	1000	19350	6601	12749	-1950	TTC-ATC revised due to shutdown of HVDC Talcher - Kolar Bipole

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
		06:00 to 18:00	20350	1000	19350	6601	12749	-1950	
		18:00 to 24:00	20350	1000	19350	6601	12749	-1950	
	04 Feb to 29 Feb	00:00 to 06:00	22300	1000	21300	6601	14699	0	
		06:00 to 18:00	22300	1000	21300	6601	14699	0	
		18:00 to 24:00	22300	1000	21300	6601	14699	0	
WR	01 Feb to 29 Feb	00:00 to 24:00	NA	NA		7708	0	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.
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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 Feb to 29 Feb	00:00 to 24:00	NA	NA		NA		0	
NER	01 Feb to 29 Feb	00:00 to 17:00	3000	60	2940	NA		-400	Change in load generation pattern of NE region
		17:00 to 21:00	3000	60	2940	NA		-400	
		21:00 to 24:00	3000	60	2940	NA		-400	
NR	01 Feb to 29 Feb	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 Feb to 29 Feb	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 Feb to 29 Feb	00:00 to 24:00	NA	NA		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.
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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	0-1,3
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	0-1,3
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	0-1,3
ER-NR	Inter-regional flow pattern towards NR	0-1,3
WR-SR	Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT	0-1,3
ER-SR	1. Low Voltage at Gazuwaka (East) Bus.	0-1,3
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	0-1,3
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-1,3
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	0-1,3
NR_IMPORT	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-1,3
NR_EXPORT	(N-1) Contingency of 400 kV Kankroli-Zerda-S/C will overload 400 KV Bhinmal-Zerda-S/C	0-1,3
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-1,3
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	0-1,3
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	0-1,3
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	0-1,3

## Revision Summary

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
1	28 Dec	01 Feb to 29 Feb	Change in T-GNA Margin due to grant of additional 174 MW GNA to Uttar Pradesh from outside Northern Region	NR_IMPORT
		01 Feb to 29 Feb	Change in T-GNA Margin due to grant of additional 45 MW GNA to Mizoram from outside North Eastern Region	NER_IMPORT
2	26 Jan	01 Feb to 29 Feb	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	WR-NR
		01 Feb to 29 Feb	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	ER-NR

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
		01 Feb to 29 Feb	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	WR-SR
		01 Feb to 29 Feb	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	ER-SR
		01 Feb to 29 Feb	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	NR_IMPORT
		01 Feb to 29 Feb	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	SR_IMPORT
3	30 Jan	01 Feb to 03 Feb	TTC-ATC revised due to shutdown of HVDC Talcher - Kolar Bipole	ER-SR
		01 Feb to 29 Feb	Change in load generation pattern of NE region	ER-NER
		01 Feb to 29 Feb	Change in load generation pattern of NE region	NER-ER
		01 Feb to 29 Feb	Change in load generation pattern of NE region	NER_IMPORT
		01 Feb to 03 Feb	TTC-ATC revised due to shutdown of HVDC Talcher - Kolar Bipole	SR_IMPORT
		01 Feb to 29 Feb	Change in load generation pattern of NE region	NER_EXPORT

ASSUMPTIONS IN BASECASE					
Month : February'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