

**National Load Despatch Centre**  
**Total Transfer Capability for May 2018**

Issue Date: 26th April 2018

Issue Time: 1700 hrs

Revision No. 5

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
NR-WR*	1st May 2018 to 31st May 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st May 2018 to 31st May 2018	00-24	10300	500	9800	9179	621	250	Revised considering (a) newly commissioned 765kV Jabalpur-Orai D/C, Orai-Aliagarh D/C, LILO 765kV Satna-Gwalior-1 S/C at Orai, 2*1000MVA 765/400kV Orai ICTs, 400kV Orai PG- Orai UP D/C, LILO of 765kV Kanpur-Jhatikara S/C at Aligarh, LILO of 765kV Agra-Greater Noida at Aligarh and (b) considering forced outage of 765kV Agra-Jhatikara S/C & 765kV Gaya-Varanasi-2 and (c) due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra
			9350**		8850**	8229**	621**		
NR-ER*	1st May 2018 to 31st May 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st May 2018 to 31st May 2018	00-24	4500	300	4200	3239	961		
W3-ER	1st May 2018 to 31st May 2018	00-24	No limit is being specified.						
ER-W3	1st May 2018 to 31st May 2018	00-24	No limit is being specified.						
WR-SR	1st May 2018 to 31st May 2018	00-05	5150	500	4650	4415	235		
		05-22	5150		4650		235		
		22-24	5150		4650		235		
SR-WR *	1st May 2018 to 31st May 2018	00-24	No limit is being Specified.						
ER-SR	1st May 2018 to 31st May 2018	00-06	4350	250	4100	3262	838		
		06-18				3347	753		
		18-24				3262	838		
SR-ER *	1st May 2018 to 31st May 2018	00-24	No limit is being Specified.						

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ER-NER	1st May 2018 to 31st May 2018	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
NER-ER	1st May 2018 to 31st May 2018	00-17	1760	45	1715	0	1715		
		17-23	1780		1735		1735		
		23-24	1760		1715		1715		
<b>W3 zone Injection</b>	1st May 2018 to 31st May 2018	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
<b>Note: TTC/ATC of S1-(S2&amp;S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD &amp; DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.</b>									
* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).									
**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.									

1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala

2) 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) Korba, j) Sipat, k) KSK Mahanadi, L)DB Power, m) KWPCCL, n)Vandana Vidyut o)RKM, p)GMR Raikheda, q)Ind Barath 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.

## Simultaneous Import Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
<b>ER</b>									
<b>NR</b>	1st May 2018 to 31st May 2018	00-05	14700 13750**	800	13900 12950**	11468	1482 1482**	350	Revised considering (a) newly commissioned 765kV Jabalpur-Orai D/C, Orai-Aliagarh D/C ,LILO 765kV Satna-Gwalior-1 S/C at Orai , 2*1000MVA 765/400kV Orai ICTs, 400kV Orai PG- Orai UP D/C , LILO of 765kV Kanpur-Jhatikara S/C at Aligarh, LILO of 765kV Agra-Greater Noida at Aligarh and (b) considering forced outage of 765kV Agra-Jhatikara S/C & 765kV Gaya-Varanasi-2 and (c) due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra
		05-08	14700 13750**		13900 12950**		1482 1482**	350	
		08-18	14700 13750**		13900 12950**		1482 1482**	350	
		18-23	13200 12250**		12400 11450**		0 0**	150	
		23-24	14700 13750**		13900 12950**		1482 1482**	350	
<b>NER</b>	1st May 2018 to 31st May 2018	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
<b>WR</b>									
<b>SR</b>	1st May 2018 to 31st May 2018	00-05	9500	750	8750	7677	1073		
		05-06	9500		8750	7677	1073		
		06-18	9500		8750	7762	988		
		18-22	9500		8750	7677	1073		
		22-24	9500		8750	7677	1073		

\* Fifty Percent (50 % ) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

\*\*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.

\* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio:

Margin in Simultaneous import of NR = A

WR-NR ATC =B

ER-NR ATC = C

Margin for WR-NR applicants = A \* B/(B+C)

Margin for ER-NR Applicants = A \* C/(B+C)

### Simultaneous Export Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
NR*	1st May 2018 to 31st May 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st May 2018 to 31st May 2018	00-17	1760	45	1715	0	1715		
		17-23	1780		1735		1735		
		23-24	1760		1715		1715		
WR									
SR *	1st May 2018 to 31st May 2018	00-24	No limit is being Specified.						

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

### Limiting Constraints (Corridor wise)

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 5
WR-NR	(n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 4
	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 5
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
ER-NR	1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev-0 to 5
WR-SR and ER-SR	a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service)	Rev-0 to 1
	b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service)	
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-2 to 5
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa	Rev-0 to 5
	b. High loading of 220 kV Balipara-Sonabil line(200 MW)	
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 5
W3 zone Injection	---	Rev-0 to 5

### Limiting Constraints (Simultaneous)

		Applicable Revisions	
NR	Import	1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/c	Rev- 5
		(n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 4
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 5
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
NER	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 5
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 5
SR	Import	a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service)	Rev-0 to 1
		b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service)	
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-2 to 5

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	26th Feb 2018	Whole Month	Revised STOA margin due to (a) 50 MW allocation to Karnataka from NTPC WR plants (b) 5 MW allocation to Telangana from NTPC WR plants	WR-SR/Import of SR
			Revised STOA margins due to change in Talcher Stg-II DC	ER-SR/Import of SR
2	23rd March 2018	Whole Month	<p>1. Revised due to commissioning/ reconfiguration of following lines:</p> <p>(a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 &amp; 3</p> <p>(b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 &amp; 2</p> <p>(c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)-ckt 1 &amp; 2 moved to 400 kV Vemagiri (PG)</p> <p>2. With the commissioning/ reconfiguration of above lines, TTC/ATC for Import of SR remains unchanged however the relative sensitivity of ER-SR and WR-SR to net import of SR has changed. The limiting constraint which was earlier (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C and (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C has also shifted to n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG).</p>	ER-SR/WR-SR
3	27th March 2018	Whole Month	Revised STOA margin due to 200 MW LTA from Bokaro TPS-A of DVC to PSPCL	ER-NR/Import of NR
4	2nd April 2018	Whole Month	Revised STOA margins due to change in allocation from WR-ISGS to J&K, to WR-ISGS to Gujarat	WR-NR/Import of NR
5	26th April 2018	Whole Month	<p>Revised considering</p> <p>(a) newly commissioned 765kV Jabalpur-Orai D/C, Orai-Aliagarh D/C ,LILO 765kV Satna-Gwalior-1 S/C at Orai , 2*1000MVA 765/400kV Orai ICTs, 400kV Orai PG- Orai UP D/C , LILO of 765kV Kanpur-Jhatikara S/C at Aligarh, LILO of 765kV Agra-Greater Noida at Aligarh and</p> <p>(b) considering forced outage of 765kV Agra-Jhatikara S/C &amp; 765kV Gaya-Varanasi-2 and (c) due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra</p>	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : May'18	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	<b>NORTHERN REGION</b>				
1	Punjab	8479	8228	4059	4077
2	Haryana	7777	7660	2139	2139
3	Rajasthan	10146	10147	6390	6337
4	Delhi	5760	5526	691	691
5	Uttar Pradesh	16367	16149	9969	9915
6	Uttarakhand	1886	1687	912	833
7	Himachal Pradesh	1484	1329	589	530
8	Jammu & Kashmir	2851	1640	1079	1071
9	Chandigarh	304	232	0	0
10	ISGS/PPs	25	25	20090	17008
	<b>Total NR</b>	<b>55078</b>	<b>52624</b>	<b>45919</b>	<b>42602</b>
II	<b>EASTERN REGION</b>				
1	Bihar	3971	2726	310	181
2	Jharkhand	1187	871	384	210
3	Damodar Valley Corporation	2952	2684	4767	4014
4	Orissa	3930	3132	3005	2282
5	West Bengal	7664	5659	5432	4259
6	Sikkim	85	50	0	0
7	Bhutan	212	219	614	582
8	ISGS/PPs	266	260	11286	9307
	<b>Total ER</b>	<b>20265</b>	<b>15602</b>	<b>25799</b>	<b>20836</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	18958	18097	11630	10987
2	Gujarat	14011	14396	8909	8909
3	Madhya Pradesh	7898	7788	2992	2992
4	Chattisgarh	3443	3568	2270	2740
5	Daman and Diu	304	293	0	0
6	Dadra and Nagar Haveli	762	742	0	0
7	Goa-WR	472	416	0	0
8	ISGS/PPs	3852	3656	39424	39424
	<b>Total WR</b>	<b>49700</b>	<b>48955</b>	<b>65225</b>	<b>65052</b>

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	8600	8600	5740	4856
2	Telangana	7546	6122	3759	3063
3	Karnataka	9394	8077	4623	4966
4	Tamil Nadu	15200	13500	8660	6510
5	Kerala	4000	2400	1474	120
6	Pondy	372	372	0	0
7	Goa-SR	84	89	0	0
8	ISGS/IPPs	0	0	15094	13476
	Total SR	45196	39161	39350	32991
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	133	74	0	0
2	Assam	1227	964	245	150
3	Manipur	168	87	0	0
4	Meghalaya	289	195	223	157
5	Mizoram	101	69	8	8
6	Nagaland	117	82	16	8
7	Tripura	240	158	78	78
8	ISGS/IPPs	140	140	1955	1576
	Total NER	2415	1769	2525	1977
	Total All India	173094	158505	179486	164078