

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

Issue Date: 19th March 2018

Issue Time: 1600 hrs

Revision No. 11

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 March 2018 to 31st March 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st March 2018 to 14th March 2018	00-24	8550	500	8050	9284	0		
	15th March 2018	0000-0630	8550	500	8050	9284	0		
		0630-2400	7550	500	7050	9284	0		
	16th March 2018 to 17th March 2018	00-24	7550	500	7050	9284	0		
18th March 2018 to 31st March 2018	00-24	8550	500	8050	9284	0			
NR-ER*	1st March 2018 to 31st March 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st March 2018 to 31st March 2018	00-24	4500	300	4200	3039	1161		
W3-ER	1st March 2018 to 31st March 2018	00-24	No limit is being specified.						
ER-W3	1st March 2018 to 31st March 2018	00-24	No limit is being specified.						

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WR-SR	1st March 2018	00-05	5700	500	5200	4165	1035		
		05-22	5700		5200		1035		
		22-24	5700		5200		1035		
	2nd March 2018 to 5th March 2018	00-05	5700	500	5200	4215	985		
		05-22	5700		5200		985		
		22-24	5700		5200		985		
	6th March 2018 to 19th March 2018	00-05	5700	500	5200	3965	1235		
		05-22	5700		5200		1235		
		22-24	5700		5200		1235		
	20th March 2018 to 31st March 2018	00-05	5150	500	4650	3965	685	-550	<p>1. Revised due to commissioning/ reconfiguration of following lines:  (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 &amp; 3  (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 &amp; 2  (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)- ckt 1 &amp; 2 moved to 400 kV Vemagiri (PG)  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>
		05-22	5150		4650		685	-550	
		22-24	5150		4650		685	-550	
SR-WR *	1st March 2018 to 31st March 2018	00-24	No limit is being Specified.						

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ER-SR	1st March 2018 to 19th March 2018	00-06	3800	250	3550	2762	788			
		06-18'				2847	703			
		18-24				2762	788			
	20th March 2018 to 22nd March 2018	00-06	4350	250	4100	2762	1338	550	1. Revised due to commissioning/ reconfiguration of following lines: (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3 (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2 (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)- ckt 1 & 2 moved to 400 kV Vemagiri (PG) 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).	
		06-18'				2847	1253	550		
		18-24				2762	1338	550		
	23rd March 2018 to 31st March 2018	00-06	4350	250	4100	2762	1338	550	1. Revised due to commissioning/ reconfiguration of following lines: (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3 (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2 (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)- ckt 1 & 2 moved to 400 kV Vemagiri (PG) 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). 3. Revised STOA margin on basis of inter-regional LTA utilisation/allocation	
		06-18'				2847	1253	550		
		18-24				2762	1338	550		
	SR-ER *	1st March 2018 to 31st March 2018	00-24	No limit is being Specified.						

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ER-NER	1st March 2018 to 4th March 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
		23-24	1370		1325		1100		
	5th March 2018 to 6th March 2018	00-10	1370	45	1325	225	1100		
		10-17	1070		1025		800		
		17-23	980		935		710		
	7th March 2018 to 18th March 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
		23-24	1370		1325		1100		
	19th March 2018 to 20th March 2018	00-08	1370	45	1325	225	1100		
		08-17	1070		1025		800		
		17-23	980		935		710		
		23-24	1070		1025		800		
	21st March 2018 to 31st March 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
23-24		1370	1325		1100				
NER-ER	1st March 2018 to 4th March 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
	5th March 2018 to 6th March 2018	00-10	1460	45	1415	0	1415		
		10-17	1230		1185		1185		
		17-23	1280		1235		1235		
	7th March 2018 to 18th March 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
	19th March 2018 to 20th March 2018	00-08	1460	45	1415	0	1415		
		08-17	1230		1185		1185		
		17-23	1280		1235		1235		
		23-24	1230		1185		1185		
	21st March 2018 to 31st March 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
23-24		1460	1415		1415				
<b>W3 zone Injection</b>	1st March 2018 to 31st March 2018	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						

**Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.**

\* 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).

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) KWPC, n)Vandana Vidyut o)RKM, p)GMR Raikhedra, 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.



<b>SR</b>	1st March 2018	00-05	9500	750	8750	6926	1824	
		05-06	9500		8750	6926	1824	
		06-18	9500		8750	7011	1739	
		18-22	9500		8750	6926	1824	
		22-24	9500		8750	6926	1824	
	2nd March 2018 to 5th March 2018	00-05	9500	750	8750	6976	1774	
		05-06	9500		8750	6976	1774	
		06-18	9500		8750	7061	1689	
		18-22	9500		8750	6976	1774	
		22-24	9500		8750	6976	1774	
	6th March 2018 to 22nd March 2018	00-05	9500	750	8750	6726	2024	
		05-06	9500		8750	6726	2024	
		06-18	9500		8750	6811	1939	
		18-22	9500		8750	6726	2024	
		22-24	9500		8750	6726	2024	
	23rd March 2018 to 31st March 2018	00-05	9500	750	8750	6726	2024	
		05-06	9500		8750	6726	2024	
		06-18	9500		8750	6811	1939	
		18-22	9500		8750	6726	2024	
		22-24	9500		8750	6726	2024	
								Revised STOA margin on basis of inter-regional LTA utilisation/allocation

\* 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).

\* 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 March 2018 to 31st March 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24			3800	248	3552		
NER	1st March 2018 to 4th March 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
	5th March 2018 to 6th March 2018	00-10	1460	45	1415	0	1415		
		10-17	1230		1185		1185		
		17-23	1280		1235		1235		
		23-24	1230		1185		1185		
	7th March 2018 to 18th March 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
	19th March 2018 to 20th March 2018	00-08	1460	45	1415	0	1415		
		08-17	1230		1185		1185		
		17-23	1280		1235		1235		
		23-24	1230		1185		1185		
	21st March 2018 to 31st March 2018	00-17	1460	45	1415	0	1415		
17-23		1420	1375		1375				
23-24		1460	1415		1415				
WR									
SR *	1st March 2018 to 31st March 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)

Corridor	Constraint	Applicable Revisions
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	All
<b>WR-NR</b>	1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.	All
	3. High loading of 400 kV Bhachau-Versana D/C line	Rev-5 to 11
	4. (n-1) contingency of 765/400kv ICT at Agra will lead to more than 1500MW on other ICT at Agra	Rev-9
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	All
<b>ER-NR</b>	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c	All
<b>WR-SR and ER-SR</b>	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) 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)	Rev-0 to 10
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-11
	Low Voltage at Gazuwaka (East) Bus.	All
<b>ER-NER</b>	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	All
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line (200 MW)	Rev- 1 to 9
	(n-1) contingency of 400/220 kV, 1x315 MVA ICT-II at Misa results in (a) high loading of 220 kV Balipara - Sonabil line [Peak], (b) high loading of 220 kV Misa - Samaguri D/C lines [OffPeak]	Rev-10
<b>W3 zone Injection</b>	---	All

### Limiting Constraints (Simultaneous)

		Applicable Revisions	
<b>NR</b>	<b>Import</b>	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c.	
		1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.	All
		3. High loading of 400 kV Bhachau-Versana D/C line	Rev-5 to 11
		4. (n-1) contingency of 765/400kv ICT at Agra will lead to more than 1500MW on other ICT at Agra	9
<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	All	
	(n-1) contingency of 400 kV Saranath-Pusauli		
<b>NER</b>	<b>Import</b>	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	All
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line	Rev- 1 to 9
		(n-1) contingency of 400/220 kV, 1x315 MVA ICT-II at Misa results in (a) high loading of 220 kV Balipara - Sonabil line [Peak], (b) high loading of 220 kV Misa - Samaguri D/C lines [OffPeak]	Rev-10
<b>SR</b>	<b>Import</b>	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) 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)	Rev-0-10
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-11
		Low Voltage at Gazuwaka (East) Bus.	All



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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	7th December 2017	Whole Month	Revised STOA due to MTOA (9.46 MW) of JITPL to Nothern Railways Delhi	ER-NR/Import of NR
2	3rd Jan 2018	Whole Month	Revised STOA margin due to allocation of NTPC WR plants to Andra Pradesh and resumption of allocation to SW-Railways from RGPPPL	WR-SR/Import of SR
3	22nd Jan 2018	Whole month	Revised STOA margin due to (i) allocation of 125 MW and 200 MW power from NTPC WR to Telangana & Karnataka respectively and (ii) 50 MW of power from NTPC ER to Telangana	WR-SR/ER-SR/Import of SR
4	3rd Feb 2018	Whole month	Revised STOA margins due to change in Talcher Stg-II DC	ER-SR/Import of SR
5	26th Feb 2018	Whole month	Revised due to restriction in MundraMahindragarh power order because of low generation at APL Mundra	WR-NR/Import of NR
		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
		1st March to 22nd March	Revised STOA margin on basis of inter-regional LTA utilisation/allocation	ER-SR/Import of SR
6	28th Feb 2018	1st March	Revised STOA margins due to (i) 50 MW allocation to Telangana from NTPC WR plants	WR-SR/Import of SR
		2nd March to 31st March	Revised STOA margins due to (i) 50 MW allocation to Telangana from NTPC WR plants and (ii) 50 MW allocation to Karnataka from NTPC WR plants	
7	04th Mar 2018	5th Mar to 6th Mar 2018	Revised due to shutdown of 400/220 kV 315 MVA ICT#1 at Misa Ss	ER-NER/NER-ER
8	05th Mar 2018	6th Mar to 31st Mar 2018	Revised STOA margin due to non-scheduling of 250 MW LTA from KMPCL to TANGEDCO (based on undertaking of KMPCL)	WR-SR/Import of SR
9	14th Mar 2018	15th Mar to 17th Mar 2018	Revised due to shutdown of 765kV Agra-Gr. Noida Line (one ICT at Phagi is already under forced outage).	WR-NR/Import of NR
10	18th Mar 2018	19th Mar to 20th Mar 2018	Revised due to shutdown of 400/220 kV, 315 MVA Misa ICT-I for bushing erection works	NER-ER / ER-NR
11	19th Mar 2018	20th Mar to 31st Mar 2018	1. Revised due to commissioning/ reconfiguration of following lines: (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3 (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2 (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)-ckt 1 & 2 moved to 400 kV Vemagiri (PG) 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).	ER-SR / WR-SR
		23rd Mar to 31st Mar 2018	Revised STOA margin on basis of inter-regional LTA utilisation/allocation	ER-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : March'18	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	7186	4990	2745	2813
2	Haryana	6952	4672	1422	1422
3	Rajasthan	9419	9770	5155	5114
4	Delhi	4024	2446	664	664
5	Uttar Pradesh	14272	14173	7165	7079
6	Uttarakhand	1744	1296	653	552
7	Himachal Pradesh	1458	570	81	37
8	Jammu & Kashmir	2273	1624	553	389
9	Chandigarh	232	124	0	0
10	ISGS/IPPs	25	25	19234	11503
	Total NR	47586	39691	37673	29574
II	EASTERN REGION				
1	Bihar	4230	2466	285	288
2	Jharkhand	1105	828	271	268
3	Damodar Valley Corporation	2905	2541	4866	3959
4	Orissa	3847	2922	3131	2322
5	West Bengal	6930	4968	5220	3618
6	Sikkim	84	48	0	0
7	Bhutan	209	219	424	290
8	ISGS/IPPs	268	259	11868	8503
	Total ER	19576	14251	26064	19248
III	WESTERN REGION				
1	Maharashtra	19088	15285	12588	10688
2	Gujarat	14117	11798	9142	8468
3	Madhya Pradesh	9214	6421	4157	3406
4	Chattisgarh	4186	3206	2727	2148
5	Daman and Diu	330	287	0	0
6	Dadra and Nagar Haveli	715	688	0	0
7	Goa-WR	590	347	0	0
8	ISGS/IPPs	3899	3487	37780	31971
	Total WR	52139	41519	66394	56682

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	8498	6093	6374	4557
2	Telangana	9517	7745	5247	3940
3	Karnataka	10027	8135	6395	4394
4	Tamil Nadu	14819	13215	7450	5600
5	Kerala	4055	2500	1614	194
6	Pondy	372	376	0	0
7	Goa-SR	84	85	0	0
8	ISGS/IPPs	0	0	15618	13858
	Total SR	47372	38149	42697	32543
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	116	61	0	0
2	Assam	1115	921	234	123
3	Manipur	151	87	0	0
4	Meghalaya	250	184	84	34
5	Mizoram	93	69	8	8
6	Nagaland	101	79	12	12
7	Tripura	183	125	72	78
8	ISGS/IPPs	158	100	1756	1495
	Total NER	2167	1626	2166	1750
	Total All India	169216	135629	175472	140126