National Load Despatch Centre
Total Transfer Capability for February 2018

Issue Date: 15th February 2018 Issue Time: 1300 hrs Revision No. 7

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 February 2018 to 28th February 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st February 2018 to 02nd February 2018	00-08	8550	500	8050	9284	0		
		08-24'	6050	500	5550	9284	0		
	03rd February 2018	00-24	10050	500	9550	9284	266		
	04th February 2018 to 15th February 2018	00-24	8550	500	8050	9284	0		
	16th February 2018 to 28th February 2018	00-24	8550	500	8050	9284	0	-1500	Revised due to restriction in Mundra Mahindragarh power order because of low generation at APL Mundra
NR-ER*	1st February 2018 to 28th February 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st February 2018 to 28th February 2018	00-24	4500	300	4200	3030	1170		
W3-ER	1st February 2018 to 28th February 2018	00-24	No limit is being specified.						
ER-W3	1st February 2018 to 28th February 2018	00-24	No limit is being specified.						
WR-SR	1st February 2018 to 28th February 2018	00-05	5700	500	5200	4060	1140		
		05-22	5700		5200		1140		
		22-24	5700		5200		1140		
SR-WR *	1st February 2018 to 28th February 2018	00-24	No limit is being Specified.						
ER-SR	1st February 2018	00-06	3800	250	3550	2839	711		
		06-07'				2924	626		
		07-18'	3450		3200	2924	276		
		18-24				2839	361		
	2nd February 2018 to 3rd February 2018	00-06	3800	250	3550	2839	711		
		06-18'				2924	626		
		18-24				2839	711		
	4th February 2018 to 28th February 2018	00-06	3800	250	3550	2762	788		
		06-18'				2847	703		
		18-24				2762	788		
SR-ER *	1st February 2018 to 28th February 2018	00-24	No limit is being Specified.						

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ER-NER	1st February 2018 to 28th February 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
		23-24	1370		1325		1100		
NER-ER	1st February 2018 to 28th February 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
W3 zone Injection	1st February 2018 to 28th February 2018	00-24	No limit is being specified (In case ofany 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) KWPCL, 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 commissionned 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 willl 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
ER									
NR	1st February 2018 to 02nd February 2018	00-05	12200	800	11400	12314	0		
		05-08	12200		11400		0		
		08-18	8650		7850		0		
		18-23	7750		6950		0		
		23-24	8650		7850		0		
	03rd February 2018	00-05	14350	800	13550	12314	1236		
		05-08	14350		13550		1236		
		08-18	14350		13550		1236		
		18-23	13050		12250		0		
		23-24	14350		13550		1236		
	04th February 2018 to 15th February 2018	00-05	12200	800	11400	12314	0		
		05-08	12200		11400		0		
		08-18	12200		11400		0		
		18-23	11000		10200		0		
		23-24	12200		11400		0		
	16th February 2018 to 28th February 2018	00-05	12200	800	11400	12314	0	-2150	Revised due to restriction in Mundra Mahindragarh power order because of low generation at APL Mundra
		05-08	12200		11400		0	-2150	
		08-18	12200		11400		0	-2150	
		18-23	11000		10200		0	-2050	
		23-24	12200		11400		0	-2150	
NER	1st February 2018 to 28th February 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
		23-24	1370		1325		1100		
WR									

SR	1st February 2018	00-05	9500	750	8750	6898	1852		
		05-06	9500		8750	6898	1852		
		06-07	9500		8750	6983	1767		
		07-18	9150		8400	6983	1417		
		18-22	9150		8400	6898	1502		
		22-24	9150		8400	6898	1502		
	02nd February 2018 to 3rd February 2018	00-05	9500	750	8750	6898	1852		
		05-06	9500		8750	6898	1852		
		06-18	9500		8750	6983	1767		
		18-22	9500		8750	6898	1852		
		22-24	9500		8750	6898	1852		
	4th February 2018 to 28th February 2018	00-05	9500	750	8750	6821	1929		
		05-06	9500		8750	6821	1929		
		06-18	9500		8750	6906	1844		
		18-22	9500		8750	6821	1929		
		22-24	9500		8750	6821	1929		

* 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 February 2018 to 28th February 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st February 2018 to 28th February 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
WR									
SR *	1st February 2018 to 28th February 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
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	All
WR-NR	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.	All
	2. High loading of 400 kV Bhachau-Versana D/C line	4,5,6,7
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	All
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c	All
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) 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)	All
	Low Voltage at Gazuwaka (East) Bus.	All
ER-NER	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
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line	All
W3 zone Injection	---	All

Limiting Constraints (Simultaneous)

			Applicable Revisions
NR	**Import**	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c.	All
		1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.	
		2. High loading of 400 kV Bhachau-Versana D/C line	4,5,6,7
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	All
		(n-1) contingency of 400 kV Saranath-Pusauli	
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)	All
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line	All
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) 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)	All
		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	28th Nov 2017	Whole month	Revised STOA margins due to reconfiguration of Rihand TPS Stage-III from Northern Region to Western Region	WR-NR/Import of SR
2	3rd Jan 2018	Whole month	Revised STOA margin due to (i) allocation of NTPC WR plants to Andra Pradesh, and (ii) resumption of allocation to SW-Railways from RGPPL	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	31st Jan 2018	01st Feb 2018 and 02nd Feb 2018	Revised due to (i) restriction in Mundra Mahindragarh power order due to low generation at APL Mundra, and (ii) due to Shutdown of HVDC Champa - Kurukshetra Bipole on 01.02.18 and 02.02.18 on daily.	WR-NR/Import of NR
		01st Feb 2018	(i) Revised ATC due to shutdown of 400kV Vemagiri-Gazuwaka S/C, (ii) Revised STOA margin on basis of inter-regional LTA utilisation	ER-SR/Import of SR
		2nd Feb 2018 to 28th Feb 2018	Revised STOA margin on basis of inter-regional LTA utilisation	
5	03rd Jan 2018	4th Feb 2018 to 15th Feb 2018	Revised due to restriction in Mundra Mahindragarh power order due to low generation at APL Mundra	WR-NR/Import of NR
6	03rd Feb 2018	4th Feb 2018 to 28th Feb 2018	Revised STOA margins due to change in Talcher Stg-II DC	ER-SR/Import of SR
7	15th Feb 2018	16th Feb 2018 to 28th Feb 2018	Revised due to restriction in Mundra Mahindragarh power order because of low generation at APL Mundra	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : February'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	7260	4982	2738	2593
2	Haryana	7075	4623	1422	1421
3	Rajasthan	9478	10567	5408	5393
4	Delhi	4322	2497	664	664
5	Uttar Pradesh	14386	15146	7921	8037
6	Uttarakhand	1865	1387	704	415
7	Himachal Pradesh	1575	624	250	134
8	Jammu & Kashmir	2368	1898	549	377
9	Chandigarh	245	139	0	0
10	ISGS/IPPs	25	26	19108	11535
	Total NR	48600	41891	38765	30569
II	EASTERN REGION				
1	Bihar	2561	2650	285	181
2	Jharkhand	860	890	266	210
3	Damodar Valley Corporation	2639	2731	4022	3974
4	Orissa	3014	3115	2366	2222
5	West Bengal	5149	5319	4227	4159
6	Sikkim	50	52	0	0
7	Bhutan	215	216	290	290
8	ISGS/IPPs	264	264	9339	8929
	Total ER	14752	15237	20795	19965
III	WESTERN REGION				
1	Maharashtra	18871	15370	12854	11475
2	Gujarat	13221	12028	10342	8753
3	Madhya Pradesh	10461	7272	4720	3977
4	Chattisgarh	4153	3073	2934	2168
5	Daman and Diu	324	281	0	0
6	Dadra and Nagar Haveli	714	729	0	0
7	Goa-WR	584	298	0	0
8	ISGS/IPPs	3874	3530	37426	34493
	Total WR	52202	42582	68275	60866

IV	SOUTHERN REGION				
1	Andhra Pradesh	8091	6737	5785	4120
2	Telangana	10020	7660	5232	3940
3	Karnataka	10686	7609	6873	3620
4	Tamil Nadu	14692	12232	7258	5466
5	Kerala	3727	2350	1313	76
6	Pondy	374	376	0	0
7	Goa-SR	84	85	0	0
8	ISGS/IPPs	0	0	14904	12929
	Total SR	47676	37050	41366	30151
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	100	54	0	0
2	Assam	962	761	214	123
3	Manipur	120	87	0	0
4	Meghalaya	242	174	190	58
5	Mizoram	78	58	8	8
6	Nagaland	88	76	12	6
7	Tripura	184	125	81	80
8	ISGS/IPPs	159	100	1516	1147
	Total NER	1935	1435	2021	1422
	Total All India	159918	132980	169205	141912