National Load Despatch Centre

Total Transfer Capability for January 2018

Issue Date: 15th January 2018 Issue Time: 1500 hrs Revision No. 10

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 January 2018 to 31st January 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st January 2018 to 11th January 2018	00-24	10050	500	9550	9284	266		
	12th January 2018 & 13th January 2018	00-08	10050	500	9550	9284	266		
		08-24'	8350	500	7850	9284	0		
	14th January 2018 and 15th January 2018	00-24	10050	500	9550	9284	266		
	16th January 2018 to 17th January 2018	00-08'	10050	500	9550	9284	266		
		08-24'	8350	500	7850	9284	0		
	18th January 2018 to 31st January 2018	00-24	10050	500	9550	9284	266		
NR-ER*	1st January 2018 to 31st January 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st January 2018 to 31st January 2018	00-24	4500	300	4200	3030	1170		
W3-ER	1st January 2018 to 31st January 2018	00-24	No limit is being specified.						
ER-W3	1st January 2018 to 31st	00-24	No limit is being specified.						

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WR-SR	1st January 2018 to 3rd January 2018	00-05	5700	500	5200	3710	1490		
		05-22	5700		5200		1490		
		22-24	5700		5200		1490		
	4th January 2018	00-05	5700	500	5200	3785	1415		
		05-22	5700		5200		1415		
		22-24	5700		5200		1415		
	5th January 2018 to 15th January 2018	00-05	5700	500	5200	3860	1340		
		05-22	5700		5200		1340		
		22-24	5700		5200		1340		
	16th January 2018 to 31st January 2018	00-05	5700	500	5200	3935	1265		Revised due to allocation of 75 MW power NTPC WR plants to Karnataka from unallocated quota
		05-22	5700		5200		1265		
		22-24	5700		5200		1265		
SR-WR *	1st January 2018 to 31st January 2018	00-24	No limit is being Specified.						
ER-SR	1st January 2018 to 2nd January 2018	00-06	3800	250	3550	3289	261		
		06-18'				3374	176		
		18-24				3289	261		
	3rd January 2018	00-06	3800	250	3550	3289	261		
		06-09'				3374	176		
		09-18'	3500		3250	3374	0		
		18-24				3289	0		
	4th January 2018 to 5th January 2018	00-06	3800	250	3550	3289	261		
		06-18'				3374	176		
		18-24				3289	261		
	6th January 2018	00-05	3800	250	3550	3204	346		
		05-06'	1800	250	1550	3289	0		
		06-18'				3374	0		
		18-24				3289	0		
	7th January 2018	00-06	1800	250	1550	3289	0		
		06-18'				3374	0		
		18-24				3289	0		
	8th January 2018 to 09th January 2018	00-06	3800	250	3550	3289	261		
		06-18'	2800	250	2550	3374	0		
		18-24	2800	250	2550	3289	0		
	10th January 2018 to 31st January 2018	00-06	3800	250	3550	3289	261		
		06-18'				3374	176		
		18-24				3289	261		

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SR-ER *	1st January 2018 to 31st January 2018	00-24	No limit is being Specified.						
ER-NER	1st January 2018 to 31st January 2018	00-17	1350	45	1305	225	1080		
		17-23	1300		1255		1030		
		23-24	1350		1305		1080		
NER-ER	1st January 2018 to 31st January 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
W3 zone Injection	1st January 2018 to 31st January 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 January 2018 to 11th January 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		
	12th January 2018 & 13th January 2018	00-05	14350	800	13550	12314	1236		
		05-08	14350		13550		1236		
		08-18	11950		11150		0		
		18-23	10700		9900		0		
		23-24	11950		11150		0		
	14th January 2018 and 15th January 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		
	16th January 2018 to 17th January 2018	00-05	14350	800	13550	12314	1236		
		05-08	14350		13550		1236		
		08-18	11950		11150		0		
		18-23	10700		9900		0		
		23-24	11950		11150		0		
	18th January 2018 to 31st January 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		
NER	1st January 2018 to 31st January 2018	00-17	1350	45	1305	225	1080		
		17-23	1300		1255		1030		
		23-24	1350		1305		1080		
WR									
SR	1st January 2018 to 2nd January 2018	00-05	9500	750	8750	6998	1752		
		05-06	9500		8750	6998	1752		
		06-18	9500		8750	7083	1667		
		18-22	9500		8750	6998	1752		
		22-24	9500		8750	6998	1752		
	3rd January 2018	00-05	9500	750	8750	6998	1752		
		05-06	9500		8750	6998	1752		
		06-09	9500		8750	7083	1667		
		09-18	9200		8450	7083	1367		
		18-22	9200		8450	6998	1452		
		22-24	9200		8450	6998	1452		

SR	4th January 2018	00-05	9500	750	8750	7073	1677		
		05-06	9500		8750	7073	1677		
		06-18	9500		8750	7158	1592		
		18-22	9500		8750	7073	1677		
		22-24	9500		8750	7073	1677		
	5th January 2018	00-05	9500	750	8750	7148	1602		
		05-06	9500		8750	7148	1602		
		06-18	9500		8750	7233	1517		
		18-22	9500		8750	7148	1602		
		22-24	9500		8750	7148	1602		
	6th January 2018	00-05	9500	750	8750	7148	1602		
		05-06	7500		6750	7148	0		
		06-18	7500		6750	7233	0		
		18-22	7500		6750	7148	0		
		22-24	7500		6750	7148	0		
	7th January 2018	00-05	7500	750	6750	7148	0		
		05-06	7500		6750	7148	0		
		06-18	7500		6750	7233	0		
		18-22	7500		6750	7148	0		
		22-24	7500		6750	7148	0		
	8th January 2018 to 09th January 2018	00-05	9500	750	8750	7148	1602		
		05-06	9500		8750	7148	1602		
		06-18	8500		7750	7233	517		
		18-22	8500		7750	7148	602		
		22-24	8500		7750	7148	602		
	10th January 2018 to15th January 2018	00-05	9500	750	8750	7148	1602		
		05-06	9500		8750	7148	1602		
		06-18	9500		8750	7233	1517		
		18-22	9500		8750	7148	1602		
		22-24	9500		8750	7148	1602		
	16th January 2018 to 31st January 2018	00-05	9500	750	8750	7223	1527		Revised due to allocation of 75 MW power NTPC WR plants to Karnataka from unallocated quota
		05-06	9500		8750	7223	1527		
		06-18	9500		8750	7308	1442		
		18-22	9500		8750	7223	1527		
		22-24	9500		8750	7223	1527		

* 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 January 2018 to 31st January 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st January 2018 to 31st January 2018	00-17	1400	45	1355	0	1355		
		17-23	1400		1355		1355		
		23-24	1400		1355		1355		
WR									
SR *	1st January 2018 to 31st January 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.	01-07
	1. (n-1) Contingnecy of 765kV Agra bus leads to Agra ICT loading above 1500MW.	8,9
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 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C b. N-1 contingency of 765/400 kV 2x1500 MVA Maheswaram (PG) ICTs results in high loading of other ICT	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.	
		1. (n-1) Contingnecy of 765kV Agra bus leads to Agra ICT loading above 1500MW.	8,9
	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 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C b. N-1 contingency of 765/400 kV 2x1500 MVA Maheswaram (PG) ICTs results in high loading of other ICT	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	29th Sep 2017	Whole Month	Revised STOA margins due to change in LTA/MTOA approved by CTU	WR-SR/ER-SR/Import of SR
2	27th Oct 2017	Whole Month	Revised due to commisioning of 400 kV Nizamabad-Shankarapalli D/C and consideration of present load generation balance	WR-SR/ER-SR/Import of SR
3	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 NR
4	02nd Jan 2018	03rd Jan 2018	Revised due to shutdown of 400kV Jeypore-Bolangir S/C	ER-SR/Import of SR
5	3rd Jan 2018	4th Jan 2018 to 31st Jan 2018	Revised STOA margin due to allocation of NTPC WR plants to Andra Pradesh	WR-SR/Import of SR
6	4th Jan 2018	06th Jan 2018 to 07th Jan 2018	Revised due to shutdown of HVDC Talcher-Kolar Bipole	ER-SR/Import of SR
		8th Jan 2018 to 09th Jan 2018	Revised due to shutdown of HVDC Talcher-Kolar Pole-1 and 2 one by one	
7	4th Jan 2018	5th Jan 2018 to 31st Jan 2018	Revised STOA margin due to allocation of NTPC WR plants to Telangana	WR-SR/Import of SR
8	11th Jan 2018	12 th Jan 2018 to 13th Jan 2018	Revised due to 765kV Bus shutdown at Agra SS	WR-NR/Import of NR
9	14th Jan 2018	16th Jan 2018 to 17th Jan 2018	Revised due to rescheduled shutdown of 765kV Bus-1 and 2 at Agra on daily basis	WR-NR/Import of NR
10	15th Jan 2018	16th Jan 2018 to 31st Jan 2018	Revised due to allocation of 75 MW power NTPC WR plants to Karnataka from unallocated quota	WR-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : Jan'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	5076	3313	2505	2469
2	Haryana	6779	3330	1533	1533
3	Rajasthan	10005	10899	5097	5121
4	Delhi	3244	1750	755	755
5	Uttar Pradesh	15422	13884	8026	7851
6	Uttarakhand	1899	1518	848	390
7	Himachal Pradesh	1421	1282	195	85
8	Jammu & Kashmir	2496	2504	551	356
9	Chandigarh	175	91	0	0
10	ISGS/IPPs	26	26	17096	8611
	Total NR	46543	38599	36606	27171
II	EASTERN REGION				
1	Bihar	4062	2536	202	181
2	Jharkhand	1290	891	197	190
3	Damodar Valley Corporation	3068	2634	4868	3974
4	Orissa	4265	3347	3232	2292
5	West Bengal	7139	5869	5379	4539
6	Sikkim	88	50	0	0
7	Bhutan	212	216	1434	1434
8	ISGS/IPPs	267	263	11767	8535
	Total ER	20389	15807	27079	21146
III	WESTERN REGION				
1	Maharashtra	17837	13518	12629	10871
2	Gujarat	12982	10844	9406	8143
3	Madhya Pradesh	11007	8265	5273	4547
4	Chattisgarh	3620	2188	2520	1990
5	Daman and Diu	312	269	0	0
6	Dadra and Nagar Haveli	635	686	0	0
7	Goa-WR	570	316	0	0
8	ISGS/IPPs	3903	3510	34513	29450
	Total WR	50865	39597	64342	55002

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	7515	6742	5781	3958
2	Telangana	7346	5433	4521	2775
3	Karnataka	10351	8454	5936	4350
4	Tamil Nadu	13800	11600	6869	5544
5	Kerala	3743	2200	1400	141
6	Pondy	387	387	0	0
7	Goa-SR	87	87	0	0
8	ISGS/IPPs	0	0	13456	12330
	Total SR	43229	34903	37963	29098
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	122	63	0	0
2	Assam	1057	825	230	140
3	Manipur	147	87	0	0
4	Meghalaya	307	203	145	82
5	Mizoram	89	65	8	8
6	Nagaland	97	81	8	6
7	Tripura	197	185	83	82
8	ISGS/IPPs	160	60	1677	1260
	Total NER	2176	1569	2151	1578
	Total All India	163444	130721	169633	135488