

National Load Despatch Centre
Total Transfer Capability for November 2018

Issue Date: 28th July 2018

Issue Time: 1600 hrs

Revision No. 0

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 November 2018 to 30th November 2018	00-06	2500	500	2000	240	1760		
		06-18				250	1750		
		18-24				240	1760		
WR-NR*	1st November 2018 to 30th November 2018	00-24	12000	500	11500	9034	2466		
			11050**		10550**	8044**	2466**		
NR-ER*	1st November 2018 to 30th November 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st November 2018 to 30th November 2018	00-24	5250	300	4950	3867	1083		
W3-ER	1st November 2018 to 30th November 2018	00-24	No limit is being specified.						
ER-W3	1st November 2018 to 30th November 2018	00-24	No limit is being specified.						
WR-SR	1st November 2018 to 30th November 2018	00-05	5150	500	4650	4535	315		
		05-22	5150		4650		315		
		22-24	5150		4650		315		
SR-WR *	1st November 2018 to 30th November 2018	00-24	No limit is being Specified.						
ER-SR	1st November 2018 to 30th November 2018	00-06	4350	250	4100	2762	1338		
		06-18				2847	1253		
		18-24				2762	1338		
SR-ER *	1st November 2018 to 30th November 2018	00-24	No limit is being Specified.						
ER-NER	1st November 2018 to 30th November 2018	00-17	1320	45	1275	225	1050		
		17-23	1040		995		770		
		23-24	1320		1275		1050		
NER-ER	1st November 2018 to 30th November 2018	00-17	1620	45	1575	0	1575		
		17-23	1890		1845		1845		
		23-24	1620		1575		1575		

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W3 zone Injection	1st November 2018 to 30th November 2018	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
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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).

**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
ER									
NR	1st November 2018 to 30th November 2018	00-18	17100 16150**	800	16300 15350**	12994 12044**	3306 3306**		
		18-23	15400 14450**		14600 13650**		1606 1606**		
		23-24	17100 16150**		16300 15350**		3306 3306**		
NER	1st November 2018 to 30th November 2018	00-17	1320	45	1275	225	1050		
		17-23	1040		995		770		
		23-24	1320		1275		1050		
WR									
SR	1st November 2018 to 30th November 2018	00-05	9500	750	8750	7297	1453		
		05-06	9500		8750	7297	1453		
		06-18	9500		8750	7382	1368		
		18-22	9500		8750	7297	1453		
		22-24	9500		8750	7297	1453		

* 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 November 2018 to 30th November 2018	00-06	4500	700	3800	433	3367		
		06-18			3800	553	3247		
		18-24	4500		3800	433	3367		
NER	1st November 2018 to 30th November 2018	00-17	1620	45	1575	0	1575		
		17-23	1890		1845		1845		
		23-24	1620		1575		1575		
WR									
SR *	1st November 2018 to 30th November 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
WR-NR	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0
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
WR-SR and ER-SR	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
	Low Voltage at Gazuwaka (East) Bus.	Rev-0
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)	Rev-0
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
W3 zone Injection	---	Rev-0

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-0
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0
(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)	Rev-0
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
		Low Voltage at Gazuwaka (East) Bus.	Rev-0

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected

ASSUMPTIONS IN BASECASE					
				Month : November'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	10175	4396	5400	4359
2	Haryana	8175	5351	2445	2002
3	Rajasthan	9622	12045	5693	6935
4	Delhi	5939	2568	1099	1266
5	Uttar Pradesh	15505	14154	9367	7242
6	Uttarakhand	2232	1347	1189	540
7	Himachal Pradesh	1509	629	1028	160
8	Jammu & Kashmir	2368	884	708	152
9	Chandigarh	332	117	0	0
10	ISGS/IPPs	24	56	19834	8850
	Total NR	55882	41547	46764	31507
II	EASTERN REGION				
1	Bihar	4184	2318	310	170
2	Jharkhand	1187	771	364	215
3	Damodar Valley Corporation	2915	2651	5294	3861
4	Orissa	4090	2874	2539	1972
5	West Bengal	8580	5123	5360	4357
6	Sikkim	84	79	0	0
7	Bhutan	211	216	1592	534
8	ISGS/IPPs	266	259	11400	8320
	Total ER	21517	14291	26859	19428
III	WESTERN REGION				
1	Maharashtra	17589	13426	13337	8562
2	Gujarat	15434	11514	8167	8072
3	Madhya Pradesh	10267	9187	4753	4821
4	Chattisgarh	4217	2817	2527	2152
5	Daman and Diu	339	273	0	0
6	Dadra and Nagar Haveli	807	713	0	0
7	Goa-WR	538	337	0	0
8	ISGS/IPPs	4299	3587	39544	30019
	Total WR	53490	41854	68326	53625

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	8899	6252	6724	4534
2	Telangana	10437	7449	5619	3806
3	Karnataka	8701	4475	6370	4543
4	Tamil Nadu	14253	11312	8893	5818
5	Kerala	3788	2263	1573	242
6	Pondy	372	382	0	0
7	Goa-SR	84	86	0	0
8	ISGS/IPPs	0	0	11366	10353
	Total SR	46533	32219	40545	29297
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	131	83	0	0
2	Assam	1512	1082	318	162
3	Manipur	175	95	0	0
4	Meghalaya	271	235	301	91
5	Mizoram	100	68	8	8
6	Nagaland	127	78	22	12
7	Tripura	222	138	59	74
8	ISGS/IPPs	172	84	1940	1473
	Total NER	2710	1862	2648	1820
	Total All India	180571	132162	186841	136247