

National Load Despatch Centre
Total Transfer Capability for November 2018

Issue Date: 07th October 2018

Issue Time: 1000 hrs

Revision No. 3

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	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st November 2018	00-24	12250 11775**	500	11750 11275**	8610 8135**	3140 3140**		
	2nd November 2018 to 5th November 2018	00-24	12250 11775**	500	11750 11275**	8760 8285**	2990 2990**		
	6th November 2018 to 30th November 2018	00-24	12250 11300**	500	11750 10800**	9235 8285**	2515 2515**		
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	3892	1058		
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	00-630	5150	500	4650	4535	115		
		630-24	4450		3950		0		
	2nd November 2018	00-930	5150	500	4650	4535	115		
		930-24	4900		4400		0		
	3rd November 2018 to 30th November 2018	00-24	5150	500	4650	4535	115		
	SR-WR *	1st November 2018 to 30th November 2018	00-24	No limit is being Specified.					

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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	00-17	1320	45	1275	225	1050			
		17-23	1040		995		770			
		23-24	1320		1275		1050			
	2nd November 2018	00-08	1320	45	1275	225	1050			
		08-17	980		935		710			
		17-23	890		845		620			
	23-24	980	935	710						
		3rd November 2018 to 07th November 2018	00-17	1320	45	1275	225	1050		
			17-23	1040		995		770		
	23-24		1320	1275		1050				
	08th November 2018	00-10	1320	45	1275	225	1050		Revised due to shutdown of 400kV Bongaigaon-Azara S/C	
		10-17'	980		935		710			-340
		17-23	890		845		620			-150
	23-24	980	935	710	-340					
		09th 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	00-17	1620	45	1575	0	1575		
			17-23	1890		1845		1845		
			23-24	1620		1575		1575		
		2nd November 2018	00-08	1620	45	1575	0	1575		
08-17			1410	1365		1365				
17-23			1470	1425		1425				
23-24		1410	1365	1365						
		3rd November 2018 to 07th November 2018	00-17	1620	45	1575	0	1575		
			17-23	1890		1845		1845		
23-24			1620	1575		1575				
08th November 2018		00-10	1620	45	1575	0	1575		Revised due to shutdown of 400kV Bongaigaon-Azara S/C	
		10-17'	1410		1365		1365			-210
		17-23	1470		1425		1425			-420
23-24		1410	1365	1365	-210					
		09th November 2018 to 30th November 2018	00-17	1620	45	1575	0	1575		
			17-23	1890		1845		1845		
23-24			1620	1575		1575				
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)						

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) JDB Power, m) KWPCCL, n) Vandana Viduyt o) RKM, p) GMR Raikheda, q) Ind Barath

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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	00-05	16350	800	15550	12502 12027**	3048		
			15875**		15075**		3048**		
		05-18	17500		16700		4198		
			17025**		16225**		4198**		
	18-24	16350	15550	3048					
		15875**	15075**	3048**					
	2nd November 2018 to 5th November 2018	00-05	16350	800	15550	12652 12177**	2898		
			15875**		15075**		2898**		
		05-18	17500		16700		4048		
			17025**		16225**		4048**		
	18-24	16350	15550	2898					
		15875**	15075**	2898**					
6th November 2018 to 30th November 2018	00-05	16350	800	15550	13127 12177**	2423			
		15400**		14600**		2423**			
	05-18	17500		16700		3573			
		16550**		15750**		3573**			
	18-24	16350		15550		2423			
		15400**		14600**		2423**			
NER	1st November 2018	00-17	1320	45	1275	225	1050		
		17-23	1040		995		770		
		23-24	1320		1275		1050		
	2nd November 2018	00-08	1320	45	1275	225	1050		
		08-17	980		935		710		
		17-23	890		845		620		
		23-24	980		935		710		
	3rd November 2018 to 07th November 2018	00-17	1320	45	1275	225	1050		
		17-23	1040		995		770		
		23-24	1320		1275		1050		
	08th November 2018	00-10	1320	45	1275	225	1050		
		10-17	980		935		710	-340	Revised due to shutdown of 400kV Bongaigaon-Azara S/C
		17-23	890		845		620	-150	
		23-24	980		935		710	-340	
	09th 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	00-06	9500	750	8750	7297	1453		
		06-630	9500		8750	7382	1368		
		630-18	8800		8050	7382	668		
		18-24	8800		8050	7297	753		
	2nd November 2018	00-06	9500	750	8750	7297	1453		
		06-930	9500		8750	7382	1368		
		930-18	9250		8500	7382	1118		
		18-24	9250		8500	7297	1203		
	3rd November 2018 to 30th November 2018	00-06	9500	750	8750	7297	1453		
		06-18	9500		8750	7382	1368		
		18-24	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	388	3412			
		06-18			3800	553	3247			
		18-24			3800	388	3412			
NER	1st November 2018	00-17	1620	45	1575	0	1575			
		17-23	1890		1845		1845			
		23-24	1620		1575		1575			
	2nd November 2018	00-08	1620	45	1575	0	1575			
		08-17	1410		1365		1365			
		17-23	1470		1425		1425			
	23-24	1410	1365							
		3rd November 2018 to 07th November 2018	00-17	1620	45	1575	0	1575		
			17-23	1890		1845		1845		
	23-24		1620	1575		1575				
	08th November 2018	00-10	1620	45	1575	0	1575			
		10-17'	1410		1365		1365	-210	Revised due to shutdown of 400kV Bongaigaon-Azara S/C	
		17-23	1470		1425		1425	-420		
	23-24	1410	1365	1365	-210					
	09th 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-0-3
WR-NR	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 0-3
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0-3
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0-3
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-0-3
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-0-3
	Low Voltage at Gazuwaka (East) Bus.	Rev-0-3
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-0-3
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0-3
W3 zone Injection	---	Rev-0-3

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-0-3
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0-3
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0-3
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0-3
(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-0-3
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0-3
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0-3
		Low Voltage at Gazuwaka (East) Bus.	Rev-0-3

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Total Transfer Capability for November 2018**

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	31st October 2018	01st November 18	Revised due to shutdwon of 765kV Wardha-Nizamabad-2 line	WR-SR/SR Import
		02nd November 18	Revised due to shutdwon of 765kV Nizamabad-Maheswaram-2 line	
		Whole Month	Revised STOA margins considering 55 MW LTA/allocation from Solar which is not available during night hours	NR-WR/Export of NR
			Revised STOA margins due to (a) change in LTA from BRBCL to Northern railways (UP) (b) Relinquishment of MTOA from JITPL to Northern Railways (UP)	ER-NR/Import of NR
			Revised due to change in load generation balance and network conditions and change in pattern of inter-regional flow towards NR	WR-NR/Import of NR
		1st Nov to 5th Nov 2018	Revised STOA margin due to outage of Rihand-III #1 on account of AMP work	WR-NR/Import of NR
2	31st October 2018	2nd Nov to 30th Nov 2018	Revised STOA margin due to operationalization of (a) 50 MW LTA from Green Infra Energy Limited to Delhi and (b) 99.9 MW LTA from Green Infra Energy Limited to UP	WR-NR/Import of NR
		2nd Nov 2018	Revised due to day time shutdown of 400 kV Bongaigaon - Azara S/C	ER-NER/NER-ER/Import/Export of NER
3	07th Nov 2018	08th Nov 2018	Revised due to day time shutdown of 400 kV Bongaigaon - Azara S/C	ER-NER/NER-ER/Import/Export of NER

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