

National Load Despatch Centre
Total Transfer Capability for November 2018

Issue Date: 19th November 2018

Issue Time: 1200 hrs

Revision No. 6

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 16th November 2018	00-24	12250 11300**	500	11750 10800**	9235 8285**	2515 2515**		
	17th November 2018 to 30th November 2018	00-24	12250 11300**	500	11750 10800**	9255 8305**	2495 2495**		
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 16th November 2018	00-24	5150	500	4650	4535	115			
17th November 2018 to 30th November 2018	00-24	5200	500	4700	4535	165			

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SR-WR *	1st November 2018 to 30th November 2018	00-24	No limit is being Specified.								
ER-SR	1st November 2018 to 16th November 2018	00-06	4350	250	4100	2762	1338				
		06-18								2847	1253
		18-24								2762	1338
	17th November 2018 to 30th November 2018	00-06	4800	250	4550	2762	1788				
		06-18								2847	1703
		18-24								2762	1788
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				
		10-17	980		935		710				
		17-23	890		845		620				
		23-24	980		935		710				
	09th November 2018 to 11th November 2018	00-17	1320	45	1275	225	1050				
		17-23	1040		995		770				
		23-24	1320		1275		1050				
	12th November 2018	00-08	1320	45	1275	225	1050				
		08-17	950		905		680				
		17-23	820		775		550				
		23-24	950		905		680				
	13th November 2018 to 19th November 2018	00-17	1320	45	1275	225	1050				
		17-23	1040		995		770				
		23-24	1320		1275		1050				
	20th November 2018 & 21st November 2018	00-08	1320	45	1275	225	1050		Revised due to Shutdown of 400 kV Byrnihat-Bongaigoan Line		
		08-17	980		935		710			-340	
		17-23	890		845		620			-150	
		23-24	980		935		710			-340	
	22nd November 2018 to 30th November 2018	00-17	1320	45	1275	225	1050				
		17-23	1040		995		770				
23-24		1320	1275		1050						

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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		
		10-17	1410		1365		1365		
		17-23	1470		1425		1425		
		23-24	1410		1365		1365		
	09th November 2018 to 11th November 2018	00-17	1620	45	1575	0	1575		
		17-23	1890		1845		1845		
		23-24	1620		1575		1575		
	12th November 2018	00-08	1620	45	1575	0	1575		
		08-17	1400		1355		1355		
		17-23	1630		1585		1585		
		23-24	1400		1355		1355		
	13th November 2018 to 19th November 2018	00-17	1620	45	1575	0	1575		
		17-23	1890		1845		1845		
		23-24	1620		1575		1575		
	20th November 2018 & 21st November 2018	00-08	1620	45	1575	0	1575		
		08-17	1410		1365		1365		
		17-23	1470		1425		1425		
		23-24	1410		1365		1365		
22nd 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)						
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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) KWPL, n)Vandana Vidut 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	00-05	16350	800	15550	12502	3048		
			15875**		15075**		3048**		
		05-18	17500		16700		4198		
	17025**		12027**		4198**				
	18-24	16350	15550		3048				
		15875**	15075**		3048**				
	2nd November 2018 to 5th November 2018	00-05	16350	800	15550	12652	2898		
			15875**		15075**		2898**		
		05-18	17500		16700		4048		
	17025**		12177**		4048**				
	18-24	16350	15550		2898				
		15875**	15075**		2898**				
6th November 2018 to 16th November 2018	00-05	16350	800	15550	13127	2423			
		15400**		14600**		2423**			
	05-18	17500		16700		3573			
16550**		12177**		3573**					
18-24	16350	15550		2423					
	15400**	14600**		2423**					
17th November 2018 to 30th November 2018	00-05	16350	800	15550	13147	2403			
		15400**		14600**		2403**			
	05-18	17500		16700		3553			
16550**		12197**		3553**					
18-24	16350	15550		2403					
	15400**	14600**		2403**					
NER	1st November 2018	00-17	1320	45	1275	225	1050		
		17-23	1040		995		770		
		23-24	1320		1275		1050		

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 16th November 2018	00-06	9500	750	8750	7297	1453	
		06-18	9500		8750	7382	1368	
		18-24	9500		8750	7297	1453	
	17th November 2018 to 30th November 2018	00-06	10000	750	9250	7297	1953	500
06-18		10000	9250		7382	1868		
18-24		10000	9250		7297	1953		

* 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			
		17-23	1470		1425		1425			
	23-24	1410	1365							
		09th November 2018 to 11th November 2018	00-17	1620	45	1575	0	1575		
			17-23	1890		1845		1845		
	23-24		1620	1575		1575				
	12th November 2018	00-08	1620	45	1575	0	1575			
		08-17'	1400		1355		1355			
		17-23	1630		1585		1585			
	23-24	1400	1355							
		13th November 2018 to 19th November 2018	00-17	1620	45	1575	0	1575		
			17-23	1890		1845		1845		
	23-24		1620	1575		1575				
	20th November 2018 & 21st November 2018	00-08	1620	45	1575	0	1575			
		08-17'	1410		1365		1365	-210	Revised due to Shutdown of 400 kV Byrnihat-Bongaigoan Line	
		17-23	1470		1425		1425	-420		
23-24	1410	1365	1365	-210						
22nd 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-0-6
WR-NR	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 0-6
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0-6
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0-6
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-0-6
WR-SR and ER-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Maradam will lead to overloading of the second ICT	Rev-6
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0-6
	Low Voltage at Gazuwaka (East) Bus.	Rev-0-6
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-0-6
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0-6
W3 zone Injection	---	Rev-0-6

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-0-6
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0-6
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0-6
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0-6
(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-0-6
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0-6
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Maradam will lead to overloading of the second ICT	Rev-6
		Low Voltage at Gazuwaka (East) Bus.	Rev-0-6
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0-6

**National Load Despatch Centre
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 operatiionalization 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
4	11th Nov 2018	12th Nov 2018	Revised due to shutdown of 400kV ICT-1 at Misa SS.	ER-NER/ NER-ER/ Import/Export of NER
5	16th November 2018	17th Nov to 30th Nov	Revised considering recent commissioning of 765 kV Jharsuguda - Dharamjaygarh 3&4, 765 kV Gadawara - Warora PS D/C, 765 kV Warora PS - Parli D/C, LILO of Kurnool - Thirvualam D/C at Cuddapah, 400 kV Cuddapah-Hindupur D/C, Salem PS - Madhugiri PS S/C, 765 kV Dharamjaigarh - Champa S/C, 765 kV Champa-Raigarh S/C and 765 kV Sipat-Bilaspur ckt-3 and some other 400 kV lines	WR-SR/ER-SR/SR import
			Revised STOA margin due to 20 MW LTA from OKWPL to UP discom	WR-NR/ Import of NR
6	19th Nov 2018	20th & 21st Nov 2018	Revised due to Shutdown of 400 kV Byrnihat-Bongaigoan Line	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