

**National Load Despatch Centre
Total Transfer Capability for October 2018**

Issue Date: 17th October 2018

Issue Time: 1230 hrs

Revision No. 11

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 October 2018 to 31st October 2018	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st October 2018 to 5th October 2018	00-24	12250 11300**	500	11750 10800**	9085 8135**	2665 2665**		
	6th October 2018 to 31st October 2018	00-24	12250 11775**	500	11750 11275**	8610 8135**	3140 3140**		
NR-ER*	1st October 2018 to 31st October 2018	00-06	2000	200	1800	193	1607		
		06-18	2000			1800	303	1497	
		18-24	2000			1800	193	1607	
ER-NR*	1st October 2018 to 31st October 2018	00-24	5250	300	4950	3867	1083		
W3-ER	1st October 2018 to 31st October 2018	00-24	No limit is being specified.						
ER-W3	1st October 2018 to 31st October 2018	00-24	No limit is being specified.						
WR-SR	1st October 2018 to 11th October 2018	00-05	5150	500	4650	4535	115		
		05-22	5150		4650		115		
		22-24	5150		4650		115		
	12th October 2018	00-05	7500	750	6750	4535	2215		
		05-22	7500		6750		2215		
		22-24	7500		6750		2215		
	13th October 2018	00-05	6000	500	5500	4535	965		
		05-22	6000		5500		965		
		22-24	6000		5500		965		
	14th October 2018	00-05	6000	500	5500	4535	965		
		05-22	6000		5500		965		
		22-24	6000		5500		965		
	15th October 2018 to 17th October 2018	00-05	6000	500	5500	4535	965		
		05-22	6000		5500		965		
		22-24	6000		5500		965		
	18th October 2018 to 21st October 2018	00-05	6000	500	5500	4535	965	850	Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI. Further, considering transient angular stability during contingency of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT at Maheshwaram
		05-22	6000		5500		965		
		22-24	6000		5500		965		

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	22nd October 2018 to 31st October 2018	00-05	5150	500	4650	4535	115				
		05-22	5150		4650		115				
		22-24	5150		4650		115				
SR-WR *	1st October 2018 to 31st October 2018	00-24	No limit is being Specified.								
ER-SR	1st October 2018 to 04th October 2018	00-06	4350	250	4100	2762	1338				
		06-18								2847	1253
		18-24								2762	1338
	5th October 2018 to 8th October 2018	00-06	4350	250	4100	2762	1338				
		06-830	4350		4100	2847	1253				
		830-18	4050		3800	2847	953				
		18-24	4050		3800	2762	1038				
	9th October 2018 to 11th October 2018	00-06	4350	250	4100	2762	1338				
		06-18								2847	1253
		18-24								2762	1338
	12th October 2018	00-06	0	250	0	2762	0				
		06-18								2847	0
		18-24								2762	0
	13th October 2018	00-06	500	250	250	2762	0				
		06-18								2847	0
		18-24								2762	0
ER-SR	14th October 2018	00-06	500	250	250	2762	0				
		06-18								2847	0
		18-24								2762	0
	15th October 2018 to 17th October 2018	00-06	500	250	250	2762	0				
		06-18								2847	0
		18-24								2762	0
	18th October 2018 to 21st October 2018	00-06	500	250	250	2762	0	-3850	Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI.		
		06-18								2847	0
		18-24								2762	0
	22nd October 2018 to 31st October 2018	00-06	4350	250	4100	2762	1338				
		06-18								2847	1253
		18-24								2762	1338
SR-ER *	1st October 2018 to 31st October 2018	00-24	No limit is being Specified.								
ER-NER	1st October 2018 to 03rd October 2018	00-17	1250	45	1205	225	980				
		17-23	1160		1115		890				
		23-24	1250		1205		980				
	4th October 2018	00-09'	1250	45	1205	225	980				
		09-17'	1030		985		760				
		17-23	930		885		660				
		23-24	1030		985		760				
	5th October 2018 to 09th October 2018	00-17	1250	45	1205	225	980				
		17-23	1160		1115		890				
		23-24	1250		1205		980				
	10th October 2018	00-08	1250	45	1205	225	980				
		08-17	980		935		710				
		17-23	890		845		620				
		23-24	980		935		710				
	11th October 2018 to 31st October 2018	00-17	1250	45	1205	225	980				
		17-23	1160		1115		890				
		23-24	1250		1205		980				

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NER-ER	1st October 2018 to 03rd October 2018	00-17	1750	45	1705	0	1705		
		17-23	1890		1845		1845		
		23-24	1750		1705		1705		
	4th October 2018	00-09'	1750	45	1705	0	1705		
		09-17'	1370		1325		1325		
		17-23	1480		1435		1435		
		23-24	1370		1325		1325		
	5th October 2018 to 09th October 2018	00-17	1750	45	1705	0	1705		
		17-23	1890		1845		1845		
		23-24	1750		1705		1705		
	10th October 2018	00-08	1750	45	1705	0	1705		
		08-17	1410		1365		1365		
		17-23	1470		1425		1425		
		23-24	1410		1365		1365		
	11th October 2018 to 31st October 2018	00-17	1750	45	1705	0	1705		
		17-23	1890		1845		1845		
		23-24	1750		1705		1705		

W3 zone Injection	1st October 2018 to 31st October 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.

Considering outage of Rihand-III unit 1 due to AMP work, ex-bus generation is being taken as 475 MW from 6th Oct'18 till 31st Oct'18.

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 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.

SR	1st October 2018 to 4th October 2018	00-05	9500	750	8750	7298	1452	
		05-06	9500		8750	7298	1452	
		06-18	9500		8750	7383	1367	
		18-22	9500		8750	7298	1452	
		22-24	9500		8750	7298	1452	
	5th October 2018 to 8th October 2018	00-05	9500	750	8750	7298	1452	
		05-06	9500		8750	7298	1452	
		06-830	9500		8750	7383	1367	
		830-18	9200		8450	7383	1067	
		18-22	9200		8450	7298	1152	
		22-24	9200		8450	7298	1152	
	9th October 2018 to 11th October 2018	00-05	9500	750	8750	7298	1452	
		05-06	9500		8750	7298	1452	
		06-18	9500		8750	7383	1367	
		18-22	9500		8750	7298	1452	
		22-24	9500		8750	7298	1452	
	12th October 2018	00-05	7500	750	6750	7298	0	
		05-06	7500		6750	7298	0	
		06-18	7500		6750	7383	0	
		18-22	7500		6750	7298	0	
		22-24	7500		6750	7298	0	
	13th October 2018	00-05	6500	750	5750	7298	0	
		05-06	6500		5750	7298	0	
		06-18	6500		5750	7383	0	
		18-22	6500		5750	7298	0	
		22-24	6500		5750	7298	0	
	14th October 2018	00-05	6500	750	5750	7298	0	
		05-06	6500		5750	7298	0	
		06-18	6500		5750	7383	0	
		18-22	6500		5750	7298	0	
22-24		6500	5750		7298	0		
15th October 2018 to 17th October 2018	00-05	6500	750	5750	7298	0		
	05-06	6500		5750	7298	0		
	06-18	6500		5750	7383	0		
	18-22	6500		5750	7298	0		
	22-24	6500		5750	7298	0		
18th October 2018 to 21st October 2018	00-05	6500	750	5750	7298	0	-3000	
	05-06	6500		5750	7298	0		
	06-18	6500		5750	7383	0		
	18-22	6500		5750	7298	0		
	22-24	6500		5750	7298	0		
Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI. Further, considering transient angular stability during contingency of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT at Maheshwaram								

22nd October 2018 to 31st October 2018	00-05	9500	750	8750	7298	1452	
	05-06	9500		8750	7298	1452	
	06-18	9500		8750	7383	1367	
	18-22	9500		8750	7298	1452	
	22-24	9500		8750	7298	1452	

* 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.

Considering outage of Rihand-III unit 1 due to AMP work, ex-bus generation is being taken as 475 MW from 6th Oct'18 till 31st Oct'18.

* 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 October 2018 to 31st October 2018	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st October 2018 to 3rd October 2018	00-17	1750	45	1705	0	1705		
		17-23	1890		1845		1845		
		23-24	1750		1705		1705		
	4th October 2018	00-09'	1750	45	1705	0	1705		
		09-17'	1370		1325		1325		
		17-23	1480		1435		1435		
		23-24	1370		1325		1325		
	5th October 2018 to 09th October 2018	00-17	1750	45	1705	0	1705		
		17-23	1890		1845		1845		
		23-24	1750		1705		1705		
	10th October 2018	00-08	1750	45	1705	0	1705		
		08-17	1410		1365		1365		
		17-23	1470		1425		1425		
		23-24	1410		1365		1365		
	11th October 2018 to 31st October 2018	00-17	1750	45	1705	0	1705		
17-23		1890	1845		1845				
23-24		1750	1705		1705				
WR									
SR *	1st October 2018 to 31st October 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 to 11
WR-NR	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 0 to 11
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0 to 11
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 11
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 to 11
WR-SR and ER-SR	n-1 contingency of 2x315 MVA,400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-2 to 6
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 11
WR-SR	1. (N-1) contingency of 765kV one ICT at Maheswaram will lead to 1500 MW loading of Other ICT. 2. Simultaneous outage of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT Maheshwaram may lead to transient angular instability	Rev-7-11
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 to 11
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 to 11
W3 zone Injection	---	Rev-0 to 11

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 to 11
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 11
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0 to 11
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 11
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 to 11
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 11
WR-SR	Import	1. (N-1) contingency of 765kV one ICT at Maheswaram will lead to 1500 MW loading of Other ICT. 2. Simultaneous outage of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT Maheshwaram may lead to transient angular instability	Rev-7-11
SR	Import	n-1 contingency of 2x315 MVA,400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 2 to 6
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 11

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Total Transfer Capability for October 2018**

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	1st August 2018	Whole Month	Revised STOA margins due to: (a) 40 MW allocation to MP from NR ISGS (b) 100 MW allocation to Chattisgarh from Kishanganga NR	NR-WR/Export of NR
			Revised STOA margin due to change in LTA/MTOA	WR-NR/ER-NR/Import of NR
			Revised STOA margins due to revocation of 500 MW LTA from Ind-bharat	ER-SR/Import of SR
2	27th September	Whole Month	Revised STOA margin due to change in LTA/MTOA	WR-NR/Import/Export 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
3	02nd October 2018	04th October 2018	Revised due to shutdown of 400 kV Bongaigaon -Byrnihat Line	ER-NER/NER-ER/NER Export/Import
4	03rd October 2018	05th October 2018 to 08th October 2018	Revised due to shutdown of 400kV Jeypore-Gazuwaka-II and I (two days each) on daily basis	ER-SR/Import of SR
5	5th October 2018	06th October 2018 to 31st October 2018	Revised STOA margin due to outage of Rihand-III #1 on account of AMP work	WR-NR/Import of NR
6	9th October 2018	10th October 2018	Revised due to Shutdown of 400 kV Bongaigaon -Azara Line.	ER-NER/NER-ER/NER Export/Import
7	11th October 2018	12th October 2018	Revised due to tripping of HVDC Talcher-Kolar & 765kV D/C Angul-Srikakulam lines due to vulnerable cyclonic condition in South Odisha network.	ER-SR/Import of SR
			Revised as Power Re-route via WR-SR corridor due to change in limiting constraint in view of ER-SR corridor trippings.	WR-SR/Import of SR
8	12th October 2018	13th October 2018	Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI. Further, considering transient angular stability during contingency of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT at Maheshwaram	WR-SR/Import of SR
			Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI.	ER-SR/Import of SR
9	13th October 2018	14th October 2018	Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI. Further, considering transient angular stability during contingency of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT at Maheshwaram	WR-SR/Import of SR
			Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI.	ER-SR/Import of SR
10	14th October 2018	15th October 2018 to 17th October 2018	Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI. Further, considering transient angular stability during contingency of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT at Maheshwaram	WR-SR/Import of SR
			Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI.	ER-SR/Import of SR

11	17th October 2018	18th October 2018 to 21st October 2018	Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI. Further, considering transient angular stability during contingency of one ckt of 765kV Wardha-Nizamabad and One 765kV ICT at Maheshwaram	WR-SR/Import of SR
			Revised due to forced outage of HVDC Talcher-Kolar Bipole & complete outage of Srikakulam substation due to cyclone TITLI.	ER-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : October'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	10474	9326	5458	5426
2	Haryana	8627	7492	2765	2445
3	Rajasthan	9370	9169	5305	5784
4	Delhi	5806	5589	1075	1099
5	Uttar Pradesh	15893	14651	9512	9412
6	Uttarakhand	2117	1848	1083	1145
7	Himachal Pradesh	1503	1203	1107	883
8	Jammu & Kashmir	2799	1692	1514	785
9	Chandigarh	344	220	0	0
10	ISGS/IPPs	24	24	20279	15055
	Total NR	56958	51211	48099	42035
II	EASTERN REGION				
1	Bihar	4087	2852	310	200
2	Jharkhand	1171	873	364	225
3	Damodar Valley Corporation	2925	2668	5264	4225
4	Orissa	4009	3194	2539	2192
5	West Bengal	8603	5717	5360	4272
6	Sikkim	84	84	0	0
7	Bhutan	212	218	1592	1526
8	ISGS/IPPs	265	259	11202	8824
	Total ER	21357	15866	26631	21464
III	WESTERN REGION				
1	Maharashtra	16834	13516	11885	9571
2	Gujarat	14542	13186	7379	7074
3	Madhya Pradesh	9729	7523	4011	3862
4	Chattisgarh	4171	3477	2999	2383
5	Daman and Diu	333	295	0	0
6	Dadra and Nagar Haveli	804	728	0	0
7	Goa-WR	516	373	0	0
8	ISGS/IPPs	4170	3476	39160	31931
	Total WR	51098	42575	65434	54821

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	8103	6984	5903	3947
2	Telangana	8305	8102	4447	4177
3	Karnataka	9352	5764	6477	4630
4	Tamil Nadu	14096	12115	8411	7493
5	Kerala	3673	2434	1564	283
6	Pondy	373	371	0	0
7	Goa-SR	84	84	0	0
8	ISGS/IPPs	0	0	11055	9542
	Total SR	43986	35853	37857	30072
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	74	0	0
2	Assam	1318	1292	307	196
3	Manipur	171	95	0	0
4	Meghalaya	267	194	313	214
5	Mizoram	99	68	8	8
6	Nagaland	129	78	22	12
7	Tripura	205	117	61	59
8	ISGS/IPPs	159	131	1963	1784
	Total NER	2471	2049	2674	2273
	Total All India	176311	147947	182392	152286