National Load Despatch Centre
Total Transfer Capability for November 2017

Issue Date: 18th November 2017 Issue Time: 1140 hrs Revision No. 8

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 2017 to 30th November 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st November 2017 to 12th November 2017	00-24	10050	500	9550	8368	1182		
	13th November 2017 and 14th November 2017	00-830	10050	500	9550	8368	1182		
		830-24	8450	500	7950	8368	0		
	15th November 2017 to 18th November 2017	00-24	10050	500	9550	8368	1182		
	19th November 2017	00-24	9050	500	8550	8368	182	-1000	Revised due forced outage of HVDC Champa-Kurukshetra Pole-1 since 17.11.17
	20thNovember 2017 to 30th November 2017	00-24	10050	500	9550	8368	1182		
NR-ER*	1st November 2017 to 30th November 2017	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st November 2017 to 30th November 2017	00-24	4500	300	4200	3030	1170		
W3-ER	1st November 2017 to 30th November 2017	00-24	No limit is being specified.						
ER-W3	1st November 2017 to 30th November 2017	00-24	No limit is being specified.						
WR-SR	1st November 2017 to 5th November 2017	00-05	5700	500	5200	3710	1490		
		05-22	5700		5200		1490		
		22-24	5700		5200		1490		
	6th November 2017	00-0630	5700	500	5200	3710	1490		
		0630-22	5200		4700		990		
		22-24	5200		4700		990		
	7th November 2017 to 30th November 2017	00-05	5200	500	4700	3710	990		
		05-22	5200		4700		990		
		22-24	5200		4700		990		
SR-WR *	1st November 2017 to 30th November 2017	00-24	No limit is being Specified.						

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ER-SR	1st November 2017 to 12th November 2017	00-06	3800	250	3550	3289	261		
		06-18'				3374	176		
		18-24				3289	261		
	13th November 2017	00-06	3800	250	3550	3289	261		
		06-0830	3800		3550	3374	176		
		0830-18'	3650		3400	3374	26		
		18-24	3650		3400	3289	111		
	14th November 2017 to 16th November 2017	00-06	3800	250	3550	3289	261		
		06-18'				3374	176		
		18-24				3289	261		
	17th November 2017 & 18th November 2017	00-06	3800	250	3550	3289	261		
		06-18'	3500		3250	3374	0		
		18-24	3500		3250	3289	0		
	19th November 2017 to 30th November 2017	00-06	3800	250	3550	3289	261		
		06-18'				3374	176		
		18-24				3289	261		
SR-ER *	1st November 2017 to 30th November 2017	00-24	No limit is being Specified.						
ER-NER	1st November 2017 to 30th November 2017	00-17	1120	45	1075	225	850		
		17-23	1010		965		740		
		23-24	1120		1075		850		
NER-ER	1st November 2017 to 30th November 2017	00-17	1340	45	1295	0	1295		
		17-23	1260		1215		1215		
		23-24	1340		1295		1295		
W3 zone Injection	1st November 2017 to 30th November 2017	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 November 2017 to 12th November 2017	00-05	14350	800	13550	11398	2152		
		05-08	14350		13550		2152		
		08-18	14350		13550		2152		
		18-23	13050		12250		852		
		23-24	14350		13550		2152		
	13th November 2017 and 14th November 2017	00-05	14350	800	13550	11398	2152		
		05-0830	14350		13550		2152		
		0830-18	12100		11300		0		
		18-23	11000		10200		0		
		23-24	12100		11300		0		
	15th November 2017 to 18th November 2017	00-05	14350	800	13550	11398	2152		
		05-08	14350		13550		2152		
		08-18	14350		13550		2152		
		18-23	13050		12250		852		
		23-24	14350		13550		2152		
	19th November 2017	00-05	12950	800	12150	11398	752	-1400	Revised due forced outage of HVDC Champa-Kurukshetra Pole-1 since 17.11.17
		05-08	12950		12150		752	-1400	
		08-18	12950		12150		752	-1400	
		18-23	11750		10950		0	-1300	
		23-24	12950		12150		752	-1400	
	20th November 2017 to 30th November 2017	00-05	14350	800	13550	11398	2152		
		05-08	14350		13550		2152		
		08-18	14350		13550		2152		
		18-23	13050		12250		852		
		23-24	14350		13550		2152		
NER	1st November 2017 to 30th November 2017	00-17	1120	45	1075	225	850		
		17-23	1010		965		740		
		23-24	1120		1075		850		
WR									
SR	1st November 2017 to 5th November 2017	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		

	6th November 2017	00-05	9500	750	8750	6998	1752		
		05-06	9500		8750	6998	1752		
		06-630	9500		8750	7083	1667		
		0630-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		
	7th November 2017 to 12th November 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		
	13th November 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-830	9000		8250	7083	1167		
		830-18	8850		8100	7083	1017		
		18-22	8850		8100	6998	1102		
		22-24	8850		8100	6998	1102		
SR	14th November 2017 to 16th November 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		
	17th November 2017 & 18th November 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-18	8700		7950	7083	867		
		18-22	8700		7950	6998	952		
		22-24	8700		7950	6998	952		
	19th November 2017 to 30th November 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		

* 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 November 2017 to 30th November 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st November 2017 to 30th November 2017	00-17	1340	45	1295	0	1295		
		17-23	1260		1215		1215		
		23-24	1340		1295		1295		
WR									
SR *	1st November 2017 to 30th November 2017	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.	Rev-01-05,07-08
	(n-1) Contingency of One pole of HVDC Champa-Kurukshetra will lead to 2750MW on 765kV Gwalior-Agra on remaining ckt.	Rev-06
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 & ER-SR	(n-1) contingency of 400 kV Dichipalli-Ramagundam or one ckt of 765 kV Aurangabad-Solapur D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	All
	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	Rev 0-6
	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 other 400/220 kV, 315 MVA ICT at Misa	All
W3 zone Injection	---	All

Limiting Constraints (Simultaneous)

		Constraint	Applicable Revisions
NR	**Import**	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c.	Rev-01-05,07-08
		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.	
		(n-1) Contingency of One pole of HVDC Champa-Kurukshetra will lead to 2750MW on 765kV Gwalior-Agra on remaining ckt.	Rev-06
	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 other 400/220 kV, 315 MVA ICT at Misa.	All
SR	**Import**	(n-1) contingency of 400 kV Dichipalli-Ramagundam or one ckt of 765 kV Aurangabad-Solapur D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	All
		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	Rev 0-6
		Low Voltage at Gazuwaka (East) Bus.	All

National Load Despatch Centre
Total Transfer Capability for November 2017

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	31st July 2017	Whole month	Revised considering the change in LTA/MTOA granted by CTU	WR-NR/Import of NR
2	20th Sepetmber 2017	Whole month	Revised considering commissioning and commercial operation of 765 kV Nizamabad - Maheswaram D/C, 765/400 kV 2x1500 MVA ICTs at Maheswaram, 400 kV Maheswaram(PG) - Maheswaram D/C, 400/220 kV 1x500 MVA ICTs at Maheswaram, 400 kV Maheswaram(PG) - Kurnool S/C and 400 kV Maheswaram - Ghanapur S/C (LILO of 400 kV Ghanapur - Kurnool S/C)	ER-SR / WR-SR / Import of SR
3	29th Sepetmber 2017	Whole month	Due to commissioning and commercial operation of HVDC Champa Kurukshetra pole II and change in LTA/MTOA as approved by CTU	WR-NR / Import of NR
			Revised STOA margins to change in LTA/MTOA approved by CTU	WR-SR / ER-SR/Import of SR
4	27th October 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
5	05th November 2017	06th November 2017-30th November 2017	Revised due to shutdown of 400kV Chandarpur-Ramagundam-1 and 2 on 06.11.17 and 08.11.17 respectively. When the ckts are revived then both the ckts will be on single Moose conductor.	WR-SR/Import of SR
6	11th November 2017	13th November 2017 and 14th November 2017	Revised due to shutdown of 765kV Agra-Gwalior-1 for SCADA integration work with HVDC NEA-Agra at Agra.	WR-NR/Import of NR
		13th November 2017	Revised due to shutdown of HVDC Pole-2 at Gazuwaka for the removal of interrupters for overhauling.	ER-SR/Import of SR
7	16th November 2017	17th November 2017 & 18th November 2017	Revised due to shutdown of 400kV Rengali-Indravati line .	ER-SR/Import of SR
8	18th November 2017	19th November 2017	Revised due forced outage of HVDC Champa-Kurukshetra Pole-1 since 17.11.17	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : Nov'17	
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