National Load Despatch Centre Total Transfer Capability for September 2015

Issue Date: 28/05/2015 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 Sep 2015 to 30th Sep 2015	00-24	2500	500	2000	706	1294		
WR-NR*	1st Sep 2015 to 30th Sep 2015	00-24	5100	500	4600	5277	0		
		00-06	2000		1800	293	1507		
NR-ER*	1st Sep 2015 to 30th Sep 2015	06-18'	2000	200	1800	358	1442		
	Î	18-24	2000		1800	293	1507		
ER-NR*	1st Sep 2015 to 30th Sep 2015	00-24	4800	300	4500	2431	2069		
W3-ER ^{\$}	1st Sep 2015 to 30th Sep 2015	00-24					s being specified. allowed via W3-El	R-NR.	
ER-W3	1st Sep 2015 to 30th Sep 2015	00-24	1000	300	700	874	0		
WR-SR	1st Sep 2015 to 30th Sep 2015	00-24	2300	750	1550	1550	0		
SR-WR *	1st Sep 2015 to 30th Sep 2015	00-24		No limit is being Specified.					
		00-06	1			Γ		1	
ER-SR	1st Sep 2015 to 30th Sep 2015	18-24	2650	0	2650	2385	265		
	· ·	06-18'				2450	200		
SR-ER *	1st Sep 2015 to 30th Sep 2015	00-24				No limit i	s being Specified.		
	1st Sep 2015 to								
	7th Sep 2015	00-24	3565	350	3215	2573	642		
	8th Sep 2015 to 14th Sep 2015	00-24	3565	350	3215	2484	731		
S1-S2	15th Sep 2015 to 21st Sep 2015	00-24	3565	350	3215	2561	654		
(Rev-0)	22nd Sep 2015 to 25th Sep 2015	00-24	3565	350	3215	2612	603		
	26th Sep 2015 to 27th Sep 2015	00-24	3565	350	3215	2691	524		
	28th Sep 2015 to 30th Sep 2015	00-24	3565	350	3215	2602	613		
	1.0.2015	00-17							
ER-NER	1st Sep 2015 to 30th Sep 2015	23-24	1200	40	1160	210	950		
	30th Sep 2013	17-23	1250		1210		1000		
NER-ER	1st Sep 2015 to 30th Sep 2015	00-17 23-24	1220	30	1190	0	1190		
		17-23	1300	40	1260		1260		
W3 zone	1st San 2015 to	00-17	9400		0200		1964		
Injection	1st Sep 2015 to 30th Sep 2015	23-24		200	9200	7236			
Injection	50th 55p 2015	17-23	9900		9700		2464		

^{*} 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).

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S1-S2 Corridor: Any revision in S1-S2 TTC/ATC from Rev-0, would be uploaded under Intra-Regional Section on NLDC website.

\$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.

- 1) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry
- 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

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 will be revised to normal values if the shutdown is not being availed in real time.

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High Loading of 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	N-1 contingency of 400 kV Biharshariff- Lakhisarai S/C
ER-W3	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
WR-SR & ER-SR	(n-1) of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as
	constraints within ER would emerge.
ER-NER	(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
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
W3 zone Injection	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)

^{*}Primary constraints

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 Sep 2015 to 30th Sep 2015	00-24	9900	800	9100	7708	1392		
NER	1st Sep 2015 to 30th Sep 2015	00-17 23-24 17-23	1200 1250	40	1160 1210	210	950 1000		
WD		17-23	1230		1210		1000		
WR									
SR	1st Sep 2015 to 30th Sep 2015	00-06 18-24	4950	750	4200	3935	265		
	30th Sep 2013	06-18'	4950		4200	4000	200		

^{*} 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).

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 Sep 2015 to	00-06 06-18'	4500	700	3800 3800	999 1064	2801 2736			
. 1.22	30th Sep 2015	18-24	4500	, 30	3800	999	2801		
NER	1st Sep 2015 to	00-17 23-24	1220	30	1190	0	1190		
	30th Sep 2015	17-23	1300	40	1260		1260		
WR									
WK									
SR *	1st Sep 2015 to 30th Sep 2015	00-24				No limit is be	ing 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

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		(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
NR	Import	flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra
NK		D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
NEK	Export	ICT at Misa
		1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
		2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
SR	Import	3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-
	_	2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would
		emerge.
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^{*}Primary constraints

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Revision No	Date of Revision	Period of Revision	Rascan for Ravisian	Corridor Affected

ASSU	IMPTIONS IN BASECASE				
				Month : September	<u>'</u> 15
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	8327	7408	4656	4626
	Haryana	7890	7084	3318	3318
	Rajasthan	9096	8161	5709	5646
	Delhi	4549	3953	1095	1095
5	Uttar Pradesh	12551	12022	6555	6605
6	Uttarakhand	1677	1295	874	723
7	Himachal Pradesh	1189	985	988	971
8	Jammu & Kashmir	2123	1439	438	438
9	Chandigarh	266	159	0	0
10	ISGS/IPPs	0	0	19172	14064
	Total NR	47668	42504	42804	37485
П	EASTERN REGION				
1	Bihar	2690	2033	110	0
2	Jharkhand	915	749	507	330
3	Damodar Valley Corporation	2906	2140	3619	2922
4	Orissa	3574	2894	3176	2150
5	West Bengal	7617	5926	5553	3524
6	Sikkim	88	43	0	0
7	Bhutan	105	104	1300	1030
8	ISGS/IPPs	608	568	9360	8909
	Total ER	18502	14458	23625	18865
Ш	WESTERN REGION				
	Maharashtra	20211	11204	14900	6645
	Gujarat	12909	7121	10115	4527
3	Madhya Pradesh	7861	4927	4832	2521
	Chattisgarh	3612	2182	2491	1036
	Daman and Diu	305	233	0	0
	Dadra and Nagar Haveli	771	570	0	0
	Goa-WR	513	293	0	0
8	ISGS/IPPs	1048	1046	23713	20410
	Total WR	47230	27575	56050	35139

V	SOUTHERN REGION				
1	Andhra Pradesh	5904	5359	4699	4399
2	Telangana	7336	6348	3626	2262
3	Karnataka	7925	6076	7334	5247
4	Tamil Nadu	13399	11925	8681	7218
5	Kerala	3381	2230	1779	694
6	Pondy	338	290	0	0
7	Goa-SR	81	81	0	0
8	ISGS/IPPs	0	0	9605	9470
	Total SR	38364	32309	35724	29290
′	NORTH-EASTERN REGION				
1	Arunachal Pradesh	107	92	0	0
2	Assam	1050	944	285	250
3	Manipur	125	105	0	0
4	Meghalaya	312	208	211	155
5	Mizoram	72	44	4	4
6	Nagaland	110	106	22	16
7	Tripura	266	166	110	110
	ISGS/IPPs	7	7	1501	1302
	Total NER	2049	1672	2133	1837
	Total All India	153812	118517	160336	122616