National Load Despatch Centre Total Transfer Capability for August 2015

1/07/2015		Issu	e Time: 125	50 hrs			Revision	No. 6
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
1st Aug 2015 to 31st Aug 2015	00-24	2500	500	2000	421	1579		
1st Aug 2015 to 31st Aug 2015	00-17 23-24 17-23	5100 5100	500	4600 4600	5277	0		
1st Aug 2015 to 31st Aug 2015	00-06 06-18'	2000 2000	200	1800 1800	293 358	1507 1442		
1st Aug 2015 to 31st Aug 2015	00-17 23-24	4800	300	4500	293 2431	2069	-	
1	17-25	4800		4300	No limiti			
1st Aug 2015 to 31st Aug 2015	00-24						R-NR.	
1st Aug 2015 to 31st Aug 2015	00-24	1000	300	700	874	0		
1st Aug 2015	00-05 05-07' 07-22'	2700 2300 2050 2450	750	1950 1550 1300	1550 1550 1550	400 0 0		Revised due to shutdown of 400kV Ramagundam-Bhadrawati Ckt-1.
2nd Aug 2015 to 31st Aug 2015	00-05 05-22' 22-24	2700 2300 2700	750	1950 1950 1950	1550 1550 1550	400 0 400		
1st Aug 2015 to 31st Aug 2015	00-24				No limit i	s being Specified.		
1st Aug 2015 to 31st Aug 2015	00-06 18-24 06-18'	2650	0	2650	2300	350		
1st Aug 2015 to 31st Aug 2015	00-24							
1st Aug 2015 to 31st Aug 2015	00-17 23-24 17-23	1000	40	960 990	210	750 780	-	
1st Aug 2015 to 31st Aug 2015	00-17 23-24 17-23	1310 1300	30 40	1280 1260	0	1280 1260		
1st Aug 2015 to	00.24	2225	250	2995	22.15	(10)		
25th Aug 2015 26th Aug 2015 to		3235	350	2885	2245 2400	485		
29th Aug 2015 to	00-24	3235	350	2885	2599	286		
31st Aug 2015 1st Aug 2015 to 31st Aug 2015	00-24	5700	300	5400	3790	1610		
1st Aug 2015 to 31st Aug 2015	00-24	1200	0	1200				
1st Aug 2015 to	00-17 23-24	9400	200	9200	7236	1964		
	Date Ist Aug 2015 to 31st Aug 2015 to	Date Time Period (hrs) 1st Aug 2015 to 31st A	DateFine Period (hrs)Total fransfer (apability)1st Aug 2015 to 31st Aug 2015 to 	DateImage spaceProvide space space space space space space space space spaceProvide space space space space space space spaceProvide space space space space space space space spaceProvide space space space space space spaceProvide space space space space spaceProvide space space s	Date Time (ns) Total ransfer (nr) Reliability (nr) Available (name (nr) 1st Aug 2015 to 31st Aug 20	Date Image and provide the set of th	DateTime periodTransfer CapabilityReliability MarginValiable Transfer (ATC)Long Term Metens (LTA) Medium Tere Optimitie (ATC)Margin Metens (LTA) Medium Tere Metens (LTA) Metens (LTA) Me	DateTim Period (hrs)Total ransfer magin (hrs)Reliability ransfer (hrs)Number ransfer (hrs)Long Term hecess (LTA)/ Medium Term Open Access (LTA)/ Medium Term Open Access (LTA)/ Margin (hrs)Margin have the transfer magin (hrs)Change have the transfer maginMargin have the transfer magin margin margin (hrs)Margin have the transfer margin margin (hrs)Margin have the transfer margin margin margin margin margin margin (hrs)Margin have the transfer margin margi

* 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).

National Load Despatch Centre Total Transfer Capability for August 2015

Issue Date: 3	Issue Time: 1250 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

\$ 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	 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)
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) 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
ER-NER	constraints within ER would emerge. (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
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C
Import of DD & DNH	(n-1) contingency of 400/220KV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingnecy of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	 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)
<u> </u>	*Primary constraints

*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 Aug 2015 to	00-05 08-24	7500	800	6700	7708	0		Revised considering present WR-NR and ER-NR Inter-
NK*	31st Aug 2015	05-08'	8000	800	7200	//08	0		regional flow pattern flow in the range 68:32
NER	1st Aug 2015 to 31st Aug 2015	00-17 23-24	1000	40	960	210	750		
	51st Aug 2015	17-23	1030		990		780		
WR									
					4.400	20.50			
		00-05	5350		4600	3850	750		
		05-06'	4950		4200	3850	350		Revised due to shutdown of
	1st Aug 2015	06-07'	4950	750	4200	3915	285		400kV Ramagundam-
	-	07-18'	4700 4700		3950	3915	35	-250	Bhadrawati Ckt-1.
SR					3950	3850		-250	
эк		22-24 00-05	5100 5350		4350 4600	3850 3850	500 750		
		00-05	4950		4600	3850	350		
	2nd Aug 2015 to	05-06	4950	750	4200	3850	285		
	31st Aug 2015	18-22'	4930	750	4200	3850	350		
		22-24	5350		4200	3850	750		

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 Aug 2015 to 31st Aug 2015	00-06 06-18'	4500	700	3800 3800	714 779	3086 3021		
	51st Aug 2015	18-24	4500		3800	714	3086		
NER	1st Aug 2015 to 31st Aug 2015	00-17 23-24	1310	30	1280	0	1280		
		17-23	1300	40	1260		1260		
WD									
WR									
SR *	1st Aug 2015 to 31st Aug 2015	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

	(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						
import	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).						
Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.						
	(n-1) contingency of 400 kV Saranath-Pusauli						
Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA						
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)							
	Import						

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.
	*Drimory constrain	nto

*Primary constraints

National Load Despatch Centre Total Transfer Capability for August 2015

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected		
1	16-06-2015	Whole month	Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30	Import of NR		
2	29-06-2015	1-8-15 -LTA/MTOA revised due to Talcher Stage 2 Unit 3 Shut-Down29-06-201521-8-1522-8-15 -31-8-1531-8-15LTA/MTOA revised due to Jhajjar Re-Allocation				
3	16-07-2015	7-20151-8-15 - 21-8-15STOA Margin revised due to deferment of Talcher Stage 2 Unit 3 Shut-Down.				
4	20-07-2015	Whole month	STOA Margin revised considering CERC order dated 03-07-2015 in petition No- 92/MP/2015 which is under implementation by CTU. Pending this any margins would be released for short term transactions on day ahead basis.	ER-SR		
5	27-07-2015	Whole Revised considering the present Maharashtra demand month pattern.				
6	31-07-2015	01-08-2015	Revised due to shutdown of 400kV Ramagundam- Bhadrawati Ckt-1.	WR-SR		
	51-07-2015	Whole month	Revised considering present WR-NR and ER-NR Inter- regional flow pattern flow in the range 68:32	Import of NR		

ASSU	MPTIONS IN BASECASE				
				Month : August '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	8713	8161	4857	4826
2	Haryana	8363	7722	3103	3103
3	Rajasthan	9308	8711	5400	5399
4	Delhi	5197	4629	1251	1251
5	Uttar Pradesh	13078	14381	6632	6641
6	Uttarakhand	1707	1599	775	698
7	Himachal Pradesh	1212	1081	1132	1137
8	Jammu & Kashmir	2252	1650	634	589
9	Chandigarh	304	250	0	0
10	ISGS/IPPs	0	0	20759	19350
	Total NR	50134	48182	44543	42994
II	EASTERN REGION				
1	Bihar	2295	1977	210	110
2	Jharkhand	898	692	499	404
3	Damodar Valley Corporation	2555	2323	3100	3043
4	Orissa	3491	2769	2847	2160
5	West Bengal	6943	6534	4946	3576
6	Sikkim	80	40	0	0
7	Bhutan	107	107	1170	1000
8	ISGS/IPPs	607	607	10535	9591
	Total ER	16976	15049	23307	19884
	WESTERN REGION				
	Maharashtra	18462	13082	12556	7174
	Gujarat	13136	8742		6180
	Madhya Pradesh	7004	4347	3935	2521
	Chattisgarh	3488	2084		1036
	Daman and Diu	287	250	-	0
6	Dadra and Nagar Haveli	675			0
	Goa-WR	474	286		0
	ISGS/IPPs	1059	1059		21391
	Total WR	44585	30489		

IV	SOUTHERN REGION				
1	Andhra Pradesh	6293	6002	5623	5039
2	Telangana	6866	6242	2944	2103
3	Karnataka	7897	6360	7633	5727
4	Tamil Nadu	13380	11277	8916	7189
5	Kerala	3271	1992	1694	693
6	Pondy	336	273	0	0
7	Goa-SR	69	69	0	0
8	ISGS/IPPs	0	0	8665	8530
	Total SR	38112	32215	35475	29281
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	134	100	0	0
2	Assam	1070	1003	284	242
3	Manipur	133	124	0	0
4	Meghalaya	305	205	198	148
5	Mizoram	71	44	4	3
6	Nagaland	111	115	21	16
7	Tripura	270	170	110	110
8	ISGS/IPPs	7	7	1554	1464
	Total NER	2101	1768	2171	1983
	Total All India	151909	127703	158306	132444