## National Load Despatch Centre Total Transfer Capability for June 2015

Issue Date: 28/02/2015

Issue Time: 2045 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 Jun 2015 to 30th Jun 2015	00-24	2500	500	2000	706	1294		
WR-NR	1st Jun 2015 to 30th Jun 2015	00-17 23-24 17-23	4900 4900	500	4400 4400	4769	0	-	
	-								
NR-ER*	1st Jun 2015 to 30th Jun 2015	00-06 06-18' 18-24	2000 2000 2000	200	1800 1800 1800	293 358 293	1507 1442 1507	-	
ER-NR	1st Jun 2015 to 30th Jun 2015	00-17 23-24 17-23	4500 4500	300	4200	2431	1769	-	
		17 20	1200		1200		1705		
W3-ER <sup>\$</sup>	1st Jun 2015 to 30th Jun 2015	00-24	1800	300	1500	351	1149		
ER-W3	1st Jun 2015 to 30th Jun 2015	00-24	1000	300	700	874	0		
WR-SR	1st Jun 2015 to 30th Jun 2015	00-24	2100	750	1350	1350	0		
SR-WR *	1st Jun 2015 to 30th Jun 2015	00-24				No limit i	s being Specified.		
	50th 5th 2015								
	500150012015							1	
ER-SR	1st Jun 2015 to 30th Jun 2015	00-06 18-24	2650	0	2650	2585	65		
ER-SR SR-ER *	1st Jun 2015 to 30th Jun 2015 1st Jun 2015 to		2650	0	2650	2650	65 0 s being Specified.		
	1st Jun 2015 to 30th Jun 2015	18-24 06-18'	2650	0	2650	2650	0		
	1st Jun 2015 to 30th Jun 2015 1st Jun 2015 to 30th Jun 2015 1st Jun 2015 to	18-24           06-18'           00-24           00-17           23-24	860	0	820	2650	0 s being Specified. 610		
SR-ER *	1st Jun 2015 to 30th Jun 2015 1st Jun 2015 to 30th Jun 2015	18-24 06-18' 00-24 00-17				2650 No limit i	0 s being Specified.		
SR-ER *	1st Jun 2015 to 30th Jun 2015	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24	860 750 1040	40	820 710 1010	2650 No limit i	0 s being Specified. 610 500 1010		
SR-ER *	1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015 to 30th Jun 2015	18-24 06-18' 00-24 00-17 23-24 17-23 00-17	860 750	40	820 710	2650 No limit i 210	0 s being Specified. 610 500		
SR-ER *	1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015 to 30th Jun 2015	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24	860 750 1040	40	820 710 1010	2650 No limit i 210	0 s being Specified. 610 500 1010		
SR-ER *	1st Jun 2015 to 30th Jun 2015	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24	860 750 1040	40	820 710 1010	2650 No limit i 210	0 s being Specified. 610 500 1010		
SR-ER *	1st Jun 2015 to         30th Jun 2015         1st Jun 2015 to         30th Jun 2015         1st Jun 2015 to         30th Jun 2015 to         30th Jun 2015 to         1st Jun 2015 to         30th Jun 2015 to         1st Jun 2015 to         30th Jun 2015 to         1st Jun 2015 to         14th Jun 2015	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24           17-23	860 750 1040 1250	40 30 40	820 710 1010 1210	2650 No limit i 210 0	0 s being Specified. 610 500 1010 1210		
SR-ER * ER-NER NER-ER S1-S2	1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015 to 5th Jun 2015 to 14th Jun 2015 to 30th Jun 2015 to 30th Jun 2015 to 30th Jun 2015	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24           17-23           00-17           23-24           00-27           00-17           23-24           00-17           23-24           00-23	860 750 1040 1250 2610	40 30 40 305	820 710 1010 1210 2305	2650 No limit i 210 0 2790	0 s being Specified. 610 500 1010 1210 0		
SR-ER * ER-NER NER-ER S1-S2 Import of Punjab	1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015 to 5th Jun 2015 to 14th Jun 2015           1sth Jun 2015 to 14th Jun 2015	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24           17-23           00-17           23-24           00-17           00-17           00-24           00-17           00-24           00-24           00-24	860 750 1040 1250 2610 2910	40 30 40 305 305	820 710 1010 1210 2305 2605	2650 No limit i 210 0 2790 2898	0 s being Specified. 610 500 1010 1210 0 0		
SR-ER * ER-NER NER-ER S1-S2 Import of	1st Jun 2015 to         30th Jun 2015         1st Jun 2015 to         30th Jun 2015         1st Jun 2015 to         30th Jun 2015 to         30th Jun 2015 to         30th Jun 2015 to         1st Jun 2015 to         30th Jun 2015 to         1st Jun 2015 to         1st Jun 2015 to         1st Jun 2015 to         1st Jun 2015 to         1sth Jun 2015 to         14th Jun 2015         15th Jun 2015 to         30th Jun 2015 to         30th Jun 2015 to         1st Jun 2015 to         15th Jun 2015 to         30th Jun 2015 to	18-24           06-18'           00-24           00-17           23-24           17-23           00-17           23-24           17-23           00-17           23-24           00-27           00-17           23-24           00-24           00-24           00-24           00-24           00-24	860 750 1040 1250 2610 2910 2910	40 30 40 305 305 305	820 710 1010 1210 2305 2605 2605	2650 No limit i 210 0 2790 2898 2819 3790 LTA and MTC	0 s being Specified. 610 500 1010 1210 0 0 0 0		
SR-ER * ER-NER NER-ER S1-S2 Import of Punjab Import TTC for DD &	1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015           1st Jun 2015 to 30th Jun 2015 to 30th Jun 2015           1st Jun 2015 to 5th Jun 2015 to 14th Jun 2015 to 30th Jun 2015 to	18-24           06-18'           00-24           7.23-24           17-23           00-17           23-24           17-23           00-17           23-24           17-23           00-17           23-24           17-23           00-17           23-24           17-23           00-24           00-24           00-24           00-24           00-24	860 750 1040 1250 2610 2910 2910 5700	40 30 40 305 305 305 300	820 710 1010 1210 2305 2605 2605 2605 5400	2650 No limit i 210 0 2790 2898 2819 3790 LTA and MTC	0 s being Specified. 610 500 1010 1210 0 0 0 0 1610 OA as per ex-pp		

\* 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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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
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\$ 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) contingnecy of 400 kV Farakka-Malda D/C
W3-ER	<ul> <li>i. (n-1) Contingency of 400 kV MPL-Maithon S/C</li> <li>ii. (n-1) contingency of 400kV Sterlite-Rourkela S/C</li> </ul>
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	<ol> <li>(n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)</li> <li>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.</li> </ol>
ER-NER	N-1 contingency of 220/132 kV, 2x100 MVA ICTs at Dimapur.
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-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (850 MW SPS setting on each circuit of 400kV Raipur-Wardha)
	*Primary constraints

<sup>k</sup>Primary constraints

### Simultaneous Import Capability

				(ATC)	Open Access (MTOA)	Open Access (STOA)	Last Revision	
st Jun 2015 to 30th Jun 2015	00-17 23-24 17-23	9400 9400	800	8600 8600	7200	1400		
st Jun 2015 to 30th Jun 2015	00-17 23-24 17-23	860 750	40	820 710	210	610 500		
st Jun 2015 to 30th Jun 2015	00-06 18-24	4750	750	4000	3935	65		
st 301	th Jun 2015 Jun 2015 to th Jun 2015 Jun 2015 to	Jun 2015 to     23-24       th Jun 2015     00-17       Jun 2015 to     00-17       th Jun 2015     17-23       Jun 2015     00-06       Jun 2015 to     00-06       Jun 2015 to     18-24	Jun 2015 to     23-24     9400       th Jun 2015     17-23     9400       Jun 2015 to     00-17     860       th Jun 2015     17-23     750       Jun 2015 to     00-06     4750       Jun 2015 to     18-24     4750	Jun 2015 to     23-24     9400     800       th Jun 2015     17-23     9400     800       Jun 2015 to     00-17     860     40       Jun 2015     17-23     750     40       Jun 2015 to     00-06     4750     750	Jun 2015 to $23-24$ $9400$ $800$ $8600$ th Jun 2015 $17-23$ $9400$ $800$ $8600$ Jun 2015 to $00-17$ $23-24$ $860$ $40$ $820$ Jun 2015 $17-23$ $750$ $710$ Jun 2015 to $00-06$ $4750$ $750$ $4000$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

## 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 Jun 2015 to 30th Jun 2015	00-06 06-18' 18-24	4500	700	3800 3800 3800	999 1064 999	2801 2736 2801		
NER	1st Jun 2015 to 30th Jun 2015	00-17 23-24 17-23	1040 1250	30 40	1010	0	1010 1210		
WR		17-23	1250	40	1210		1210		
SR *	1st Jun 2015 to 30th Jun 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) contingnecy of Kahalgaon-Banka S/C
	Immout	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
INK		D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Evnort	(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 220/132 kV, 2x100 MVA ICTs at Dimapur.
INER	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
		1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
SR	T	2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-
эк	Import	2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would
		emerge.
<b>1</b>	*Drimary constr	

\*Primary constraints

# National Load Despatch Centre Total Transfer Capability for June 2015

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected