National Load Despatch Centre Total Transfer Capability for February 2014

Issue Date: 22/01/2014 Issue Time: 1500 hrs Revision No. 3

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 February 2014 to 28th February 2014	00-24	2500	500	2000	286	1714		
WR-NR ¹	1st February 2014 to 28th February 2014	00-17 23-24 17-23	3900 3900	500	3400 3400	3181 3181	219 219		
		17-23	3700		3400	3101	21)		
NR-ER *	1st February 2014 to 28th February 2014	00-17 23-24 17-23	1000 1100	200	800 900	200	600 700		
ER-NR	1st February 2014 to 28th February 2014	00-17 23-24 17-23	3800	300	3500	2118	1382 1382		
W3-ER	1st February 2014 to 28th February 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st February 2014 to 28th February 2014	00-24	1000	300	700	700	0		
WR-SR	1st February 2014 to 28th February 2014	00-24	850	0	850	850	0	-150	Revised due to commissioning of 765kV Raichur-Sholapur S/C
SR-WR *	1st February 2014 to 28th February 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st February 2014 to	00-05 10-19	700	0	700	700	0	-50	Revised due to commissioning of
	28th February 2014	05-10 19-24	700		700		0	-400	765kV Raichur-Sholapur S/C
			700						
SR-ER *	1st February 2014 to 28th February 2014	00-17 23-24	1100	0	1100	197	903		
SR-ER *		00-17		0		197	903 903		
SR-ER *	28th February 2014	00-17 23-24 17-23	1100 1100	0	1100 1100	197	903		
SR-ER * ER-NER ²		00-17 23-24 17-23 00-17 23-24	1100 1100 720	50	1100 1100 670	197	903		
ER-NER ²	1st February 2014 28th February 2014 to 28th February 2014 1st February 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17	1100 1100	50	1100 1100	230	903		
	28th February 2014 1st February 2014 to 28th February 2014	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24	1100 1100 720 640 570		1100 1100 670 590 470		903 440 360 470		
ER-NER ²	1st February 2014 28th February 2014 to 28th February 2014 1st February 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17	1100 1100 720 640	50	1100 1100 670 590	230	903 440 360		
ER-NER ² NER-ER	28th February 2014 1st February 2014 to 28th February 2014 1st February 2014 to 28th February 2014 1st February 2014 28th February 2014 to 28th February 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24	1100 1100 720 640 570	50	1100 1100 670 590 470	230	903 440 360 470		
ER-NER ²	28th February 2014 to 28th February 2014 to 28th February 2014 to 28th February 2014 to 28th February 2014	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23	1100 1100 720 640 570 570	50	1100 1100 670 590 470 470	230	903 440 360 470 470		
ER-NER ² NER-ER S1-S2 Import of	28th February 2014 to 28th February 2014 tst February 2014 to 28th	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23 00-24	1100 1100 720 640 570 570	50	1100 1100 670 590 470 470	230 0	903 440 360 470 470 300 1500 A as per ex-pp		
ER-NER ² NER-ER S1-S2 Import of Punjab Import TTC for DD & DNH	28th February 2014 to 28th February 2014 to 28th February 2014 1st February 2014 to 28th February 2014 1st February 2014 to 28th February 2014 to 28th February 2014 to 28th February 2014 1st February 2014 to 28th February 2014 to 28th February 2014	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23 00-24 00-24 00-24	1100 1100 720 640 570 570 6200 5600 980	50 100 400 300 0	1100 1100 670 590 470 470 5800 5300 980	230 0 5500 3800 LTA and MTOA sched	903 440 360 470 470 300 1500 A as per ex-pp lule 670		
ER-NER ² NER-ER S1-S2 Import of Punjab Import TTC for DD &	1st February 2014 to 28th February 2014 to 1st February 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23 00-24 00-24	1100 1100 720 640 570 570 6200 5600	50 100 400 300	1100 1100 670 590 470 470 5800 5300	230 0 5500 3800 LTA and MTO	903 440 360 470 470 300 1500 A as per ex-pp dule		

^{*} 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⁾ ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam

²⁾ S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry

³⁾ W3 comprises of the following regional entities:

a) Chattisgarh, b) Jindal Power Limited (JPL) , 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

[#] The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be les. RLDC/ NLDC would factor this situation while issuing STOA approvals

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1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

• 765 kV Gwalior-Agra one circuit

- 765 kV Bina-Gwalior one circuit

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterlite
WR-SR & ER-SR	Commissioning of 765kV Raichur-Sholapur S/C Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO) Considering transfer capability assessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	
ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NER-ER	(n-1) contingency of 400 kV Farakka-Malda
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1) contingency of 400 kV 400 kV Raipur-Wardha

^{*}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									
NR¹	1st February 2014 to 28th February 2014	00-17 23-24	7700 7700	800	6900 6900	5299	1601 1601		
NER ²	1st February 2014 to 28th February 2014	17-23 00-17 23-24 17-23	7700 720 640	50	670	230	440		
WR		17-23	040		390		300		
	1st February 2014 to	00-05 10-19	1550	0	1550	1550	0	-200	Revised due to
SR	28th February 2014	05-10 19-24	1550	0	1550	1550	0	-550	commissioning of 765kV Raichur-Sholapur S/C

- 1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:
 - 765 kV Gwalior-Agra one circuit
 - 765 kV Bina-Gwalior one circuit

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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 February 2014 to 28th February 2014	00-17 23-24	3500	700	2800	286	2514		
	20th February 2014	17-23	3600		2900		2614		
NER	1st February 2014 to	00-17 23-24	570	100	470	0	470		
	28th February 2014	17-23	570		470		470		
WR									
VV IX									
SR*	1st February 2014 to 28th February 2014	00-17 23-24	2100	0	2100	197	1903		
	Zoui reditary 2014	17-23	2100		2100		1903		

^{*} 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

NR	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
	Import	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
1111	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NEK	Export	(n-1) contingency of 400 kV Farakka-Malda
		1. Commissioning of 765kV Raichur-Sholapur S/C
	Import	2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent
SR	Import	variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO)
		3. Considering transfer capability assesment by CTU on NEW-SR corridor.
	Export	

^{*}Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	06-11-2013	Whole Month	Revised considering the LTA/MTOA on NR-ER Path	NR-ER
2	27-11-2013	Whoe Month	Revised due to change in Load Generation in WR/NR Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea. Revised due to change in Inter-Regional flow pattern and Load	WR-NR ER-NR/ER-NER W3 Zone
3	22-01-2014	Whoe Month	generation change in ER/WR. Revised due to commissioning of 765kV Raichur-Sholapur S/C	Injection WR-SR/ER-SR