National Load Despatch Centre Total Transfer Capability for May 2014

Issue Date: 28/01/2014	
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Issue Time: 2300 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 May 2014 to 31st May 2014	00-24	2500	500	2000	286	1714		
WR-NR ¹	1st May 2014 to 31st May 2014	00-17 23-24 17-23	3900 3900	500	3400 3400	3181	219 219		
NR-ER	1st May 2014 to 31st May 2014	00-17 23-24 17-23	1000	200	800 900	200	600 700		
ER-NR *	1st May 2014 to 31st May 2014	00-17 23-24 17-23	3800	300	3500	2789	711 711		
	1 + 34 - 2014 +			-					
W3-ER	1st May 2014 to 31st May 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st May 2014 to 31st May 2014	00-24	1000	300	700	700	0		
WR-SR	1st May 2014 to 31st May 2014	00-24	850	0	850	850	0		
SR-WR *	1st May 2014 to 31st May 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st May 2014 to 31st May 2014	00-05 10-19 05-10	700	0	700	700	0		
		19-24	700		700		0		
SR-ER *	1st May 2014 to 31st May 2014	19-24 00-17 23-24 17-23	1100 1100	0	1100 1100	197	903 903		
SR-ER *	-	00-17 23-24 17-23	1100	0	1100	197	903		
SR-ER *	-	00-17 23-24 17-23 00-17 23-24	1100 1100 720	0	1100 1100 670	197 230	903 903 440		
	31st May 2014 1st May 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24	1100 1100 720 640 530		1100 1100 670 590 430		903 903 440 360 430		
ER-NER ²	31st May 2014 1st May 2014 to 31st May 2014 1st May 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	903 903 440 360		
ER-NER ²	31st May 2014 1st May 2014 to 31st May 2014 1st May 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24	1100 1100 720 640 530	50	1100 1100 670 590 430	230	903 903 440 360 430		
ER-NER ² NER-ER S1-S2 Import of	31st May 2014 1st May 2014 to 31st May 2014 1st May 2014 to 31st May 2014 to 1st May 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23	1100 1100 720 640 530 550	50 100	1100 1100 670 590 430 450	230 0	903 903 440 360 430 450		
ER-NER ² NER-ER S1-S2	31st May 2014 1st May 2014 to 31st May 2014 1st May 2014 to 31st May 2014 to 31st May 2014 to 31st May 2014 to	00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23 00-17 23-24 17-23	1100 1100 720 640 530 550 6200	50 100 500	1100 1100 670 590 430 450 5700	230 0 5500	903 903 440 360 430 450 200 1500 A as per ex-pp		
ER-NER ² NER-ER S1-S2 Import of Punjab Import TTC for DD &	31st May 2014 1st May 2014 to 31st May 2014 1st May 2014 to 31st May 2014 to 31st May 2014 to 31st May 2014 to 31st May 2014 1st May 2014 to	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	1100 1100 720 640 530 550 6200 5600	50 100 500 300	1100 1100 670 590 430 430 450 5700 5300	230 0 5500 3800 LTA and MTO	903 903 440 360 430 450 200 1500 A 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).

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

National Load Despatch Centre Total Transfer Capability for May 2014

Issue Time: 2300 hrs

		eriod	Transfer Capability (TTC)	Reliability Margin	Transfer Capability (ATC)	Access (LTA)/ Medium Term Open Access (MTOA) #	Available for Short Term Open Access (STOA)	in TTC w.r.t. Last Revision	Comments
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									

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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

ER-W3 (n-1) contingency of 400kV Raigarh-Sterlite (n-1) contingency of 400kV Raigarh-Sterlite 1. Commissioning of 765kV Raichur-Sholapur S/C 2. 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) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. Bhadrawati HVDC B/B link capacity SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C NER-ER (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa (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 (n = 1) contingency of 400 kV 400 kV Paipur Wardba	Corridor	Constraint
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 400 kV Kahalgaon-Biharshariff W3-ER (n-1) contingency of 400 kV Kaipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni' (n-1) contingency of 400kV Raigarh-Sterlite 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 & 1. Commissioning of 765kV Raichur-Sholapur S/C WR-SR & 2. 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) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa 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 (n-1) contingency of 400 kV 400 kV Roipar-Hosur Wardba	NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
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 & 1. Commissioning of 765kV Raichur-Sholapur S/C 2. 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) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of 400 kV Kolar-Hosur D/C line, 400 kV Balipara – Bongaigaon D/C NER-ER (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 (n - 1) contingency of 400 kV 400 kV Raipar	WR-NR	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
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 & 1. Commissioning of 765kV Raichur-Sholapur S/C 2. 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) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of 400 kV Kahalgaon-Biharshariff M-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa (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 (n = 1) contingency of 400 kV 400 kV Roipart Wardba	NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni (n-1) contingency of 400 kV Raigarh-Sterlite 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur Iine flow, observation of Low Frequency Oscillations(LFO) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (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	ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
ER-W3 (n-1) contingency of 400kV Raigarh-Sterlite (n-1) contingency of 400kV Raigarh-Sterlite 1. Commissioning of 765kV Raichur-Sholapur S/C 2. 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) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. Bhadrawati HVDC B/B link capacity SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C NER-ER (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa (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 (n = 1) contingency of 400 kV 400 kV Paipur Wardba	W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
WR-SR & 2. 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) 3. Considering transfer capability asessment by CTU on NEW-SR corridor. SR-WR Bhadrawati HVDC B/B link capacity SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa NER-ER (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 (n = 1) contingency of 400 kV 400 kV Rolar-Hosur Wardba	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
SR-ER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C NER-ER (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa 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 (n-1) contingency of 400 kV 400 kV Roisur Wardba		2. 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)
ER-NER (n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C NER-ER (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa 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 (n-1) contingency of 400 kV 400 kV Paipur Wardba	SR-WR	Bhadrawati HVDC B/B link capacity
ER-NER (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C NER-ER (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa 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 (n - 1) contingency of 400 kV 400 kV Poinur Wordba	SR-ER	
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 (n - 1) contingency of 400 kV 400 kV Paipur Wardba	ER-NER	
S1-52 and 400kV Somanahalli-Salem S/C line. Import of Punjab (n-1) contingency of ICT at Patiala/Moga W3 zone (n-1) contingency of 400 kV 400 kV Paiaur Wardba	NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
Punjab (n-1) contingency of ICT at Patiala/Moga W3 zone (n-1) contingency of 400 kV 400 kV Paipur Wardba	S1-S2	
(n 1) contingency of 400 kV 400 kV Painur Wardha	Punjab	(n-1) contingency of ICT at Patiala/Moga
	W3 zone Injection	(n-1) contingency of 400 kV 400 kV Raipur-Wardha

*Primary constraints

Issue Date: 28/01/2014

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 ¹	1st May 2014 to 31st May 2014	00-17 23-24	7700	800	6900	5970	930		
	51st May 2014	17-23	7700		6900		930		
NER ²	1st May 2014 to 31st May 2014	00-17 23-24	720	50	670	230	440		
	51st May 2014	17-23	640		590		360		
WR									
SR	1st May 2014 to	00-05 10-19	1550	0	1550	1550	0		
3K	31st May 2014	05-10 19-24	1550	0	1550	1550	0		

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 May 2014 to 31st May 2014	00-17 23-24	3500	700	2800	486	2314		
	51st May 2014	17-23	3600		2900		2414		
NER	1st May 2014 to	00-17 23-24	530	100	430	0	430		
	31st May 2014	17-23	550		450		450		
WR									
WK									
SR*	1st May 2014 to	00-17 23-24	2100	0	2100	197	1903		
	31st May 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

	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NR	mport	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	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 and (n-1) contingency of one circuit of 400 kV Balipara - Bongaigaon D/C
NEK	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
	Import	1. Commissioning of 765kV Raichur-Sholapur S/C
		2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent
SR		variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO).
		3. Considering transfer capability assessment by CTU on NEW-SR corridor.
	Export	

*Primary constraints

National Load Despatch Centre Total Transfer Capability for April 2014

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