National Load Despatch Centre Total Transfer Capability for March 2013

Issue Date: 12/03/2013 Issue Time: 1230 hrs Revision No. 12

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)	Comments
	1st March 2013 to 5th March 2013	00-24	1500	200	1300	286	1014	
	6th March 2013	00-07, 19-24	1500	200	1300	286	1014	Revised due to shutdown of 400 kV Zerda-Kankroli on 06.03.13.
		07-19'	1300		1100		814	
	7th March 2013 to 8th March 2013	00-24	1500	200	1300	286	1014	Revised due to Cancellation of 400 kV Zerda-Bhinmal shutdown on 07.03.13.
NR-WR	9th March 2013	00-24'	1500	200	1300	286	1014	Revised due to Cancellation of Agra- Gwalior-Bina shutdown.
	10th March 2013	00-03	1500	200	1300	286	1014	Revised due to upgradation work of Agra-Gwalior-Bina. The
		03-24'	1300		1100		814	upgradation work would be carried
	11th March 2013 to 25th March 2013	00-24	1300	200	1100	286	814	out in different stages from 9th March to 25th March 2013
	26th March 2013 to 31st March 2013	00-24	1500	200	1300	286	1014	
	1st March 2013 to 5th March 2013	00-24	2000	200	1800	1040	760	Review and dynamic studies carried out to reassess transfer capability
	6th March 2013	00-07, 19-24	2000	200	1800	1040	760	Revised due to shutdown of 400 kV Zerda-Kankroli on 06.03.13.
		07-19'	1800		1600		560	Revised due to Cancellation of 400
	7th March 2013 to 8th March 2013	00-24	2000	200	1800	1040	760	kV Zerda-Bhinmal shutdown on 07.03.13.
WR-NR	9th March 2013	00-24'	2000	200	1800	1040	760	Revised due to Cancellation of Agra- Gwalior-Bina
		00-03	2000	200	1800		760	Revised due to upgradation work of
	10h March 2013	03-24'	1500		1300	1040	260	Agra-Gwalior-Bina. The upgradation work would be carried
	11th March 2013 to 25th March 2013	00-24	1500	200	1300	1040	260	out in different stages from 9th March to 25th March 2013
	26th March 2013 to 31st March 2013	00-24	2000	200	1800	1040	760	
	1st March 2013 to	00-17	800		600		600	
NR-ER	31st March 2013	23-24 17-23	900	200	700	0	700	
	1st March 2013 to	00-17		200		1900	300	
	4th March 2013	23-24 17-23	2500	300	2200	1900	300	
	5th March 2013	00-09	2500	300	2200	1900	300	
ER-NR	6th March 2013	09-24' 00-24	2200 2200	300	1900 1900	1900	0	Revised due to shutdown of 400 kV
ERTIN		00-24	2200		1900		0	Kahalgaon-Biharsharif I
	7th March 2013	18-24	2500	300	2200	1900	300	
	8th March 2013 to	00-17 23-24	2500	300	2200	1900	300	
	31st March 2013	17-23				1900	300	
****	1st March 2013 to	00.7		25.5				
W3-ER	31st March 2013	00-24	1400	300	1100	0	1100	
ER-W3	1st March 2013 to 31st March 2013	00-24	1000	300	700	650	50	
WR-SR	1st March 2013 to 31st March 2013	00-24	1000	0	1000	992	8	
SR-WR	1st March 2013 to 31st March 2013	00-24	1000	0	1000	0	1000	

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	1st March 2013 to	00-05 10-19	950	0	950	170	780	Review of TTC due to change in load
	9th March 2013	05-10 19-24	950*	U	950*	170	780*	generation scenario
		00-05 1030-19	950		950		780	
	10th March 2013 to 11th March 2013	05-0830 19-24	950*	0	950*	170	780*	Revised due to shutdown of 400kV Vijayawada-Nellore D/C for chariot
ER-SR#	Trui Macii 2013	0830- 1000	750		250		80	crossing.
		1000- 1030'	250		250		80	
	12th March 2013	00-05 10-19	950	0	950	170	780	
		05-10 19-24	950*		950*		780*	
	13th March 2013 to 31st March 2013	00-05 10-19 05-10	950^	0	950^	170	780^	
		19-24 00-17	950^^		950^^		780^^	
SR-ER	1st March 2013 to 31st March 2013	23-24	700 700	0	700	197	503	
ER-NER	1st March 2013 to 31st March 2013	00-17 23-24	400	35	365	228	137	
NED ED	1st March 2013 to	17-23 00-17	510	100	365 410	228	137 410	
NER-ER	31st March 2013	23-24 17-23	280	100	180	0	180	
S1-S2	1st March 2013 to 31st March 2013	00-24	5800	200	5600	4400	1200	
Import of Punjab	1st March 2013 to 31st March 2013	00-24	5400	300	5100	3243	1857	
Import TTC for DD & DNH	1st March 2013 to 31st March 2013	00-24	980	0	980	LTA and MTO		
		00-17, 23-24	8000	200	7800		1387	6413 MW corresponds to maximum effective LTA from W3. Export
	12th March 2013	17-23	8500	200	8300	6413	1887	Margin from W3 would vary as per the maintenance schedule of generators in the zone.
W3 zone	13th March 2013 to	00-08,	8000		7800		1387	Revised due to shutdown of 400kV Bhilai-Koradi on 13.3.13 & 14.3.13
Injection#	14th March 2013	08-17' 17-18'	7600 8100	200	7400 7900	6413	987 1487	for stringing work of upcoming 765 kV Raipur Pooling Station.
		18-23	8500		8300		1887	3
	15th March 2013 to	00-17, 23-24	8000	200	7800	6413	1387	
	31st March 2013	17-23	8500	200	8300	0+13	1887	

¹⁾ ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC $\mbox{\sc B/B}$ seam

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

³⁾ W3 comprises of the following regional entities and would be operational wef 0000 hrs of 18th September 2012

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

^{*} additional 250 MW can be transferred to SR if injection point is South Odisha

[^] additional 100 MW can be transferred to SR if injection point is South Odisha

^{^^} additional 350 MW can be transferred to SR if injection point is South Odisha

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Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	(n-1) contingency of 400 kV Bina-Satna leading to high loading of 765/400 kV Bina transformer
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1) contingency of 400 kV Sterlite-Rourkela
ER-W3	High loading of 400 kV Raipur-Wardha, Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Rourkela-Raigarh
WR-SR SR-WR	Bhadrawati HVDC B/B link capacity Bhadrawati HVDC B/B link capacity
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area (n-1) contingency of 400 kV Rourkela-Talcher*
SR-ER	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	(n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I
NER-ER	(n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Saruajai I*
S1-S2	(n-1) contingency of 400 kV Hosur-Salem D/C line
Import of Punjab	(n-1) contingency of ICT at Moga
W3 zone export TTC	(n-1) contingency of 400 kV Raipur-Wardha and High loading of 400 kV Bhilai-Koradi

^{*}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)	Comments
ER								
	1st March 2013 to 4th March 2013	00-17 23-24 17-23	4500	500	4000	2940 2940	1060 1060	Review and dynamic studies carried out to reassess transfer capability
	5th March 2013	00-09 09-24'	4500 4200	500	4000 3700	2940	1060 760	1. Revised due to shutdown of 400 kV Kahalgaon-
	6th March 2013	00-07, 19- 24 07-19'	4200 4000	500	3700 3500	2940	760 560	Biharsharif I. 2.Shutdown of 400 kV Zerda- Kankroli on 06.03.13.
	7th March 2013	00-18'	4200	500	3700	2940	760	3.Revised due to Cancellation of 400 kV Zerda-Bhinmal
	8th March 2013	18-24' 00-24	4500 4500		4000		1060	shutdown on 07.03.13.
NR#	9th March 2013	00-24	4500		4500		1560	Revised due to Cancellation of Agra-Gwalior-Bina shutdown.
	10th March 2013	00-03	4500	500	4000	2940	1060	Revised due to upgradation work of Agra-Gwalior-Bina.
	11th March 2013 to 25th March 2013	03-24'	4000		3500 3500		560	The upgradation work would be carried out in different stages from 9th March to 25th March 2013.
	26th March 2013 to 31st March 2013	00-17 23-24 17-23	4500	500	4000	2940 2940	1060	Review and dynamic studies carried out to reassess transfer capability
NER	1st March 2013 to	00-17 23-24	400	35	365	228	137	Capability
	31st March 2013	17-23	400		365	228	137	
WR								
	1st March 2013 to	00-05 10- 19	1950	0	1950	1162	788	
	31st March 2013	05-10 19- 24	1950*	Ů	1950*	1102	788*	Review of TTC due to change in load generation scenario
		00-05 1030-19	1950	•	1950		788	
	10th March 2013 to 11th March 2013	05-0830 19-24 0830-10	1950*	0	1950*	1162	788* 588	Revised due to shutdown of 400kV Vijayawada-Nellore D/C for chariot crossing.
SR#		1000- 1030'	1750 1250		1750 1250		88	for charlot crossing.
	104.15 1 2012	00-05 10- 19	1950	0	1950	11.00	788	
	12th March 2013	05-10 19- 24	1950*	0	1950*	1162	788*	
	13th March 2013 to	00-05 10- 19	1950^	0	1950^	1162	788^	
	31st March 2013	05-10 19- 24	1950^^	U	1950^^	1102	788^^	

^{*} additional 250 MW can be transferred to SR if injection point is South Odisha $^{\wedge}$ additional 100 MW can be transferred to SR if injection point is South Odisha $^{\wedge}$ additional 350 MW can be transferred to SR if injection point is South Odisha

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)	Comments
ER-NR + ER-NER	1st March 2013 to 31st March 2013	00-17 23-24	2700	350	2350	2132	218	
EK-MEK		17-23	2700		2350	2132	218	
	1st March 2013 to 31st March 2013	00-17 23-24 17-23	2300	200	2100	286	1814	
		00-07 23-24	2400		2100		1814	Revised due to Shutdown of 400
	6th March 2013	07-17' 17-19	2100 2200	200	1900 2000	286	1614 1714	kV Zerda-Kankroli on 06.03.13 & 400 kV Zerda-Bhinmal on 7.03.13.
	7th March 2013 to 8th March 2013	19-23' 00-17 23-24	2400	200	2200 2100	286	1914 1814	Revised due to Cancellation of 400 kV Zerda-Bhinmal shutdown
	oui Maich 2015	17-23	2400		2200		1914	on 07.03.13.
NR#	9th March 2013	00-17 23-24	2300	200	2100	286	1814	Revised due to Cancellation of
		17-23	2400		2200		1914	Agra-Gwalior-Bina shutdown.
		00-03	2300		2100		1814	Revised due to upgradation
	10th March 2013	03-17 23-24	2100	200	1900	286	1614	work of Agra-Gwalior-Bina. The upgradation work would be
		17-23	2200		2000		1714	carried out in different stages
	11th March 2013 to 25th March 2013	00-17 23-24	2100	200	1900	286	1614	from 9th March to 25th March 2013
	25th Watch 2015	17-23	2200		2000		1714	
	26th March 2013 to 31st March 2013	00-17 23-24	2300	200	2100	286	1814	
	518t Water 2015	17-23	2400		2200		1914	
NER	1st March 2013 to 31st March 2013	00-17 23-24	510	100	410	0	410	
	518t Water 2015	17-23	280		180		180	
WR								
SR	1st March 2013 to 31st March 2013	00-17 23-24	1700	0	1700	197	1503	
	513t Waren 2015	17-23	1700	<u> </u>	1700		1503	

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda*
		(n-1) contingency of 400 kV Bina-Satna leading to high loading of 765/400 kV Bina transformers*
	Export	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
		(n-1) contingency of 400 kV Pusauli-Biharsharif
NER	Import	High Loading of 220 kV BTPS-Agia
		(n-1) contingency of 400 kV Balipara – Bongaigaon-I
		(n-1) contingency of 400 kV Farakka-Malda*
	Export	(n-1) contingency of 220 kV Samaguri – Saruajai I*
		(n-1) contingency of 400 kV Balipara-Bongaigaon-I
SR	Import	(n-1) Coningency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala line
		(n-1) contingency of 400 kV Rourkela-Talcher*
		Bhadrawati HVDC B/B link capacity
		(n-1) contingency of 400 kV Vijaywada-Nellore
	Export	(n-1) contingency of 400 kV Farakka-Malda
		(n-1) contingency of 400 kV Maithon-Kahalgaon
		(n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NR + ER-NER	Export	(n-1) contingency of 400 kV Farakka-Malda*

ASSUMPTIONS IN BASECASE

		Loa	ad	Generation		
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
I	NORTHERN REGION					
1	Punjab	5678	4250	2437	231	
2	Haryana	5592	4591	3623	362	
3	Rajasthan	7243	6793	4084	408	
4	Delhi	4090	3299	1206	120	
5	Uttar Pradesh	10774	9516	6020	583	
6	Jammu & Kashmir	1800	1359	333	33	
7	Uttarakhand	1365	1100	523	30	
8	Himachal Pradesh	1043	959	218	13	
9	Chandigarh	188	86	0		
10	ISGS			16384	1106	
	Total NR	37773	31952	34828	2891	
II	EASTERN REGION					
1	West Bengal	6457	5456	4744	408	
2	Jharkhand	964	650	354	35	
3	Orissa	3009	2300	1710	161	
5	Bihar Damodar Valley Corporation	1805	1450	101	1(
6	Sikkim	2303	2000	2954	295	
7	Bhutan	44	44	0	2/	
8	ISGS	112	112	245 6505	24	
	Total ER	14694	12012	16613	599 153 4	
	Total Lit	14054	12012	10013	100-	
Ш	WESTERN REGION					
1	Chattisgarh	3153	2242	2518	202	
2	Madhya Pradesh	7200	5146	3443	280	
3	Maharashtra	15717	13582	13113	945	
4	Gujarat	10497	8800	9933	756	
5	Goa	420	280			
6	Daman and Diu	252	190			
7	Dadra and Nagar Haveli	602	504	44000	447	
8	Total WR	37841	20744	11920 40927	1179 336 4	
	TOTAL VVK	3/041	30744	40927	3304	
IV	SOUTHERN REGION					
1	Andhra Pradesh	10835	9993	8217	68′	
2	Tamil Nadu	10456	8310	5148	46	
3	Karnataka	8521	7469	5482	439	
4	Kerala	3314	2209	2248	6-	
5	Pondy	320	231			
6	Goa	84	84			
	1000			10955	1077	
7	ISGS					
7	Total SR	33530	28296	32050	272	
	Total SR	33530	28296	32050	2725	
V	Total SR NORTH-EASTERN REGION				2725	
V 1	Total SR NORTH-EASTERN REGION Manipur	100	70	0		
V 1 2	Total SR NORTH-EASTERN REGION Manipur Meghalaya	100	70 196	0 99	2725	
V 1 2 3	Total SR NORTH-EASTERN REGION Manipur Meghalaya Mizoram	100 280 70	70 196 49	0 99 4	7	
V 1 2 3 4	Total SR NORTH-EASTERN REGION Manipur Meghalaya Mizoram Nagaland	100 280 70 110	70 196 49 77	0 99 4 11	;	
V 1 2 3 4 5	Total SR NORTH-EASTERN REGION Manipur Meghalaya Mizoram Nagaland Assam	100 280 70 110 1230	70 196 49 77 840	0 99 4 11 222	20	
V 1 2 3 4 5 6	Total SR NORTH-EASTERN REGION Manipur Meghalaya Mizoram Nagaland Assam Tripura	100 280 70 110 1230 221	70 196 49 77 840 155	0 99 4 11 222 94	20	
V 1 2 3 4 5 6 7	Total SR NORTH-EASTERN REGION Manipur Meghalaya Mizoram Nagaland Assam Tripura Arunachal Pradesh	100 280 70 110 1230 221	70 196 49 77 840 155	0 99 4 11 222 94	21	
V 1 2 3 4 5 6	Total SR NORTH-EASTERN REGION Manipur Meghalaya Mizoram Nagaland Assam Tripura	100 280 70 110 1230 221	70 196 49 77 840 155	0 99 4 11 222 94		