National Load Despatch Centre Total Transfer Capability forApril 2016

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 Apr 2016 to 12th Apr 2016	00-24	2500	500	2000	55	1945		
	13th Apr 2016 to 30th Apr 2016	00-24	2500	500	2000	149	1851		
WR-NR*	1st Apr 2016 to 30th Apr 2016	00-24	7450	500	6950	6155	795		
		00-06	2000		1800	293	1507		
NR-ER*	1st Apr 2016 to	06-18'	2000	200	1800	358	1442		
- 1.2.2	30th Apr 2016	18-24	2000		1800	293	1507		
ER-NR*	1st Apr 2016 to 30th Apr 2016	00-24	3800	300	3500	2431	1069		
		1	1			NT 11 11 11			
W3-ER ^{\$}	1st Apr 2016 to 30th Apr 2016	00-24					s being specified. allowed via W3-EI	R-NR	
	1st Apr 2016 to						unowed via w 3-El	C TVIC.	
ER-W3	30th Apr 2016	00-24			No limit is	s being specified.			
WR-SR	1st Apr 2016 to 30th Apr 2016	00-24	4000	750	3250	3250	0		
SR-WR *	1st Apr 2016 to 30th Apr 2016	00-24							
	30th Apr 2010	<u> </u>	l						
	1st Apr 2016 to	00-06				2585	65		
	2nd Apr 2016	18-24	2650	0	2650				
	. r	06-18'				2650	0		
	3rd Apr 2016	00-06	2650		2650	2585	65		
		06-08'	2650	0	2650	2650	0		
	•	08-18'	2350		2350	2650	0		
		18'-24 00-06	2350		2350	2585	0		
ED CD	4th Apr 2016 to 24th Apr 2016	18-24	2650	0	2650	2585	65		
ER-SR		06-18' 00-06				2650	0		
	25th Apr 2016	18-24	2000	0	2000	2585	0		
		06-18' 00-06				2650	0		
	26th Apr 2016	18-24	2000	0	2000	2585	0	-650	Revised in view of frequent tripping
	r	06-18'				2650	0		of HVDC Gazuwaka
	27th Apr 2016 to	00-06							
	27th Apr 2016 to 30th Apr 2016	18-24	2650	0	2650	2585	65		
	_	06-18'				2650	0		
SR-ER *	1st Apr 2016 to 30th Apr 2016	00-24				No limit i	s being Specified.		
		00-17							
	1st Apr 2016 to	23-24	1460	45	1415	210	1205		
	25th Apr 2016	17-23	1400	43	1355	210	1145		
		00-07	1460		1415		1205		
		07-17'	1070		1025		815		
ER-NER	26th Apr 2016	17-23	1400	45	1355	210	1355		
		23-24	1460		1415		1205		
	27th Apr 2016 to	00-17	1460	4.5	1415	210	1205		
	30th Apr 2016	23-24 17-23	1400	45	1355	210	1145		
		17-23	1700		1333		1143		

National Load Despatch Centre Total Transfer Capability for April 2016

Issue Date: 25/04/2016 Issue Time: 1400 hrs Revision No. 7

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
	1st Apr 2016 to 25th Apr 2016	00-17 23-24	1290	45	1245	0	1245		
23th Apr 2010	17-23	1370		1325		1325			
		00-07	1290	45	1245	0	1245		
NER-ER	NER-ER 26th Apr 2016	07-17'	985		940		940		
NEK-EK	20th Apr 2016	17-23	1370		1325		1325		
		23-24	1290		1245		1245		
	27th Apr 2016 to	00-17 23-24	1290	45	1245	0	1245		
	30th Apr 2016	17-23	1370		1325		1325		
W3 zone Injection	1st Apr 2016 to 30th Apr 2016	00-24		0 1	*	_	nal flows or any con revised accordingly		

Note: TTC/ATC of S1-S2 corridor, Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.

- \$ 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	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	n-1 contingency of one cicuit of 400 kV Biharshariff- Lakhisarai S/C
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit
EK-SK	Low Voltage at Gazuwaka (East) Bus.
ER-NER	(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. (n-1) contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
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
W3 zone	
Injection	

^{*} 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).

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									
		00-05	9300		8500		0		
	1.4 A 2016 4	05-08'	9300		8500		0		
NR [*]	1st Apr 2016 to 30th Apr 2016	08-19'		800		8586			
			9300	 	8500		0		
		19-24	9300		8500		0		
	1st Apr 2016 to	00-17 23-24	1460	45	1415	210	1205		
	25th Apr 2016	17-23	1400	†	1355		1145		
	26th Apr 2016	00-07	1460		1415		1205		
NER		07-17'	1070	45	1025	210	815		
NEK		17-23	1400		1355		1355		
		23-24	1460		1415		1205		
	27th Apr 2016 to 30th Apr 2016	00-17 23-24	1460	45	1415	210	1205		
		17-23	1400		1355		1145		
WR									

	1st Apr 2016 to	00-06	6650		5900	5835	65		
	2nd Apr 2016	06-18'	6650	750	5900	5900	0		
	2nd 11p1 2010	18-24	6650		5900	5835	65		
		00-06	6650		5900	5835	65		
	3rd Apr 2016	06-08'	6650	750	5900	5900	0		1
	•	08-18'	6350	<u> </u>	5600	5900	0		
		18-24 00-06	6350 6650		5600	5835	0		
	4th Apr 2016 to	06-18'	6650	750	5900 5900	5835 5900	65		
SR	24th Apr 2016	18-24	6650	730	5900	5835	65		
SK		00-06	6000		5250	5835	0		
	25th Apr 2016	06-18'	6000	750	5250	5900	0		
	25th 7tpi 2010	18-24	6000	750	5250	5835	0		
		00-06	6000		5250	5835	0		Revised in view of
	26th Apr 2016	06-18'	6000	750	5250	5900	0	-650	frequent tripping of HVDC
		18-24	6000	1	5250	5835	0		Gazuwaka
		00-06	6650		5900	5835	65		
	26th Apr 2016 to	06-18'	6650	750	5900	5900	0		
	30th Apr 2016	18-24	6650	Ī	5900	5835	65		

^{*} 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).

* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio:

Margin in Simultaneous import of NR = A

WR-NR ATC =B ER-NR ATC = C

Margin for WR-NR applicants = A * B/(B+C)Margin for ER-NR Applicants = A * C/(B+C)

Example: Margin for WR-NR applicants from 00-05 hours = 1666 * 7200/(7200+3500) = 1121

Margin for ER-NR applicants from 00-05 hours = 1666 * 3500/(7200+3500) = 544

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
	1st Apr 2016 to	00-06	4500		3800	348	3452		
	12th Apr 2016	06-18'		700	3800	413	3387		
NR*	12th Apr 2010	18-24	4500		3800	348	3452		
1111	13th Apr 2016 to	00-06	4500	700	3800	442	3358		
30th Apr 2016		06-18'			3800	507	3293		
	18-24	4500		3800	442	3358			
	1st Apr 2016 to 23	00-17 23-24	1290	45	1245	0	1245		
	25th Apr 2016	17-23	1370		1325		1325		
		00-07	1290		1245		1245		
		07-17'	985		940	0	940		
NER	26th Apr 2016	17-23	1370	45	1325		1325		
		23-24	1290		1245		1245		
	27th Apr 2016 to 00	00-17 23-24	1290	45	1245	0	1245		
30th Apr 2	30th Apr 2016	17-23	1370		1325		1325		
XX/D									
WR									
SR *	1st Apr 2016 to 30th Apr 2016	00-24				No limit is be	eing 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

211111111111	, Comstraints	
		(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
	Import	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.
NR		2.High Loading of 400kV Singrauli-Anpara S/C.
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
	T	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
NER	Import	ICT at Misa. (n-1) contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
NEK	.	(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.
CD	T	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit
SR	Import	Low Voltage at Gazuwaka (East) Bus.

National Load Despatch Centre Total Transfer Capability for April 2016

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	1/3/2016	Whole Month	STOA Margin revised considering the completion of ISGS Allocation towards SR.	NR-WR/ Export of NR
		Whole	Revised considering outage of HVDC Vindhyachal Pole 1 and grant of MTOA	WR-NR
2	2 31/3/2016 Whom		Revised considering the outage of HVDC Vindhyachal Pole 1 and the present ER-NR and WR-NR flow pattern and grant of MTOA	Simultaneous import of NR
3	2/4/2016	3/4/2016	Revised due to shutdown of 400 kV Rengali - Indravati	ER-SR / Import of SR
4	12/4/2016	13/4/2016 to 31/4/2016	STOA Margin revised due to allocation of power from NR ISGS to SR Constituents.	NR-WR/ Export of NR
5	24/4/2016	25/4/2016	Revised in view of frequent tripping of HVDC Gazuwaka	ER-SR / Import of SR
6	25/4/2016	26/4/2016	Revised due to shutdown of 400/220 kV 315 MVA ICT-I at Misa.	ER-NER/ NER- ER
7	25/4/2016	26/4/2016	Revised in view of frequent tripping of HVDC Gazuwaka	ER-SR / Import of SR

ASSU	MPTIONS IN BASECASE				
				Month : April '16	
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	6017	4110	2325	2205
2	Haryana	5959	3730	1533	1533
3	Rajasthan	7793	7529	5769	5715
4	Delhi	4227	2843	865	865
5	Uttar Pradesh	12854	13291	6189	5894
6	Uttarakhand	1473	1314	448	382
7	Himachal Pradesh	1124	1050	606	455
8	Jammu & Kashmir	1642	1191	690	692
9	Chandigarh	204	116	0	0
10	ISGS/IPPs	0	0	17783	12283
	Total NR	41292	35175	36208	30025
II	EASTERN REGION				
1	Bihar	2864	1843	210	100
2	Jharkhand	1115	811	380	215
3	Damodar Valley Corporation	2401	2045	3200	2750
4	Orissa	3968	2855	3026	2016
5	West Bengal	6915	4975	4850	3500
6	Sikkim	95	62	0	0
7	Bhutan	245	245	622	372
8	ISGS/IPPs	624	624	10258	9372
	Total ER	18226	13460	22547	18325
III	WESTERN REGION				
	Maharashtra	20119	13839	14572	8722
	Gujarat	12531	11565	10392	9501
	Madhya Pradesh	7748	4820	5272	2443
4	Chattisgarh	3601	2949	1750	1378
	Daman and Diu	292	243	0	0
	Dadra and Nagar Haveli	759	637	0	0
7	Goa-WR	473	273	0	0
ρ Ω	ISGS/IPPs	1064	1059	26153	22592
- 0	Total WR	46586	35386	58139	44636
	TOTAL WIN	40300	33300	30138	44030

	I				
V	SOUTHERN REGION				
1	Andhra Pradesh	6654	5529	5899	5426
2	Telangana	7503	6395	2703	2163
3	Karnataka	8439	7411	6458	5105
4	Tamil Nadu	13886	12855	6738	5788
5	Kerala	3763	2965	1732	656
6	Pondy	391	328	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	20	20	13130	12002
	Total SR	40745	35592	36660	31140
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	89	39	0	0
2	Assam	903	648	308	170
3	Manipur	88	52	0	0
4	Meghalaya	227	125	112	39
5	Mizoram	60	40	4	4
6	Nagaland	69	61	8	6
7	Tripura	240	149	85	84
	ISGS/IPPs	0	0	1100	800
	Total NER	1676	1114	1617	1103
	Total All India	148525	120726	155171	125228