## National Load Despatch Centre Total Transfer Capability for January 2016

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 Jan 2016 to 31st Jan 2016	00-24	2500	500	2000	706	1294			
1st Jan 2016 to 4th Jan 2016	00-24	7700	500	7200	6103	1097			
5th Jan 2016 to	00-09	7700	500	7200	(102	1097		Revised due to emergency shutdown	
6th Jan 2016	09-24'	7200	500	6700	6103	597	-500	of 765/400kV ICT at Agra	
7th Jan 2016 to 31st Jan 2016	00-24	7700	500	7200	6103	1097			
	00.05	2000		1000	202	1507	1		
1st Jan 2016 to			200						
sistian 7016			200				[	-	
1st Jan 2016 to 31st Jan 2016	00-24	3800	300	3500	2431	1069			
1st Jan 2016 to 31st Jan 2016	00-24						R-NR.		
1st Jan 2016 to 31st Jan 2016	00-24			No limit is					
			1						
1st Jan 2016 to 2nd Jan 2016	00-24	3500	750	2750	3250	0			
3rd Jan 2016	00-24	1000	500	500	3250	0			
4th Jan 2016	00-24	1000	500	500	3250	0			
5th Jan 2016	00-24	1000	500	500	3250	0	-2500	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	
6th Jan 2016 to 31st Jan 2016	00-24	4000	750	3250	3250	0			
1st Jan 2016 to 31st Jan 2016	00-24				No limit i	s being Specified.			
	00.05								
1st Jan 2016 to 31st Jan 2016	18-24	2650	0	2650	2585	65		-	
1st Jan 2016 to	06-18'								
	1st Jan 2016 to         31st Jan 2016         4th Jan 2016         5th Jan 2016 to         6th Jan 2016 to         31st Jan 2016 to         2nd Jan 2016 to         3rd Jan 2016         4th Jan 2016         5th Jan 2016 to         3rd Jan 2016         6th Jan 2016 to         31st Jan 2016 to	DatePeriod (hrs)1st Jan 2016 to 31st Jan 2016 to 4th Jan 2016 to 6th Jan 2016 to 31st Jan 201	DateIme Period (hrs)Transfer Capability (TTC)1st Jan 2016 to 31st Jan 201600-2425001st Jan 2016 to 4th Jan 201600-2477005th Jan 2016 to 6th Jan 201600-2477007th Jan 2016 to 31st Jan 2016 to 2nd Jan 201600-2435001st Jan 2016 to 31st Jan 2016 to 31st Jan 201600-2410001st Jan 2016 to 31st Jan 201600-2410006th Jan 2016 to 31st Jan 201600-241000fist Jan 2016 to 31st Jan 201600-2440001st Jan 2016 to 31st Jan 2	DateImme Period (hrs)Transfer Capability (TTC)Reliability Margin1st Jan 2016 to 31st Jan 201600-2425005001st Jan 2016 to 4th Jan 201600-2477005005th Jan 2016 to 6th Jan 201600-2477005007th Jan 2016 to 31st Jan 201600-2477005007th Jan 2016 to 31st Jan 201600-2477005001st Jan 2016 to 31st Jan 201600-24200020001st Jan 2016 to 31st Jan 201600-2438003001st Jan 2016 to 31st Jan 201600-2438003001st Jan 2016 to 31st Jan 201600-2435007501st Jan 2016 to 31st Jan 201600-2410005001st Jan 2016 to 31st Jan 201600-24265001st Jan 2016 to 31st Jan 201618-24 06-18'265001st Jan 2016 to 31st Jan 201600-2426500	Date         Imme Period (hrs)         Transfer apability (TTC)         Reliability Margin         Transfer Capability (ATC)           1st Jan 2016 to 31st Jan 2016 to 4th Jan 2016         00-24         2500         500         2000           1st Jan 2016 to 4th Jan 2016 to 6th Jan 2016         00-24         7700         500         7200           5th Jan 2016 to 6th Jan 2016 to 31st Jan	DateTime Period (hrs)Total Transfer Capability (TTC)Available MarginAccess (LTA)/ Medium Term Open Access (MTOA) #Ist Jan 2016 to 31st Jan 2016 to 4th Jan 2016 0th Jan 2016 to 31st Jan 2016 to 	DateTime Period (hrs)Iotal Transfer 	DateTime Period (hrs)Ioal Transfer Capability (TTC)Available Reliability MarginAvailable ransfer Capability (ATC)Available Medium Term Open Access (MTOA) #Available for the set in TTC Medium Term Open Access (STOA)in TTC writ Last Revision1st Jan 2016 to 31st Jan 2016 to 4th Jan 2016 (bh Jan 2016 (bh Jan 2016 to 00-090.0-24500200070001294109710971st Jan 2016 to 6th Jan 2016 (bh Jan 2016 to 31st Jan 2016 to <b< th=""></b<>	

Issue Date: 04/01/2016

Issue Time: 1330 hrs

Revision No. 5

## National Load Despatch Centre Total Transfer Capability for January 2016

sue Date: 0	Date	Time Period (hrs)	Total Transfer Capability (TTC)	e Time: 133 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-NER	1st Jan 2016 to	00-17 23-24	1160	45	1115	210	905		
LICIUM	31st Jan 2016	17-23	1100		1055	210	845		
NER-ER	1st Jan 2016 to 31st Jan 2016	00-17 23-24	1110	45	1065	0	1065		
		17-23	950		905	][	905		
W3 zone Injection	1st Jan 2016 to 31st Jan 2016	00-24							

\* 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).

### National Load Despatch Centre Total Transfer Capability for January 2016

Issue Date: 04/01/2016

Issue Time: 1330 hrs

Revision No. 5

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
----------	------	-------------------------	--	-----------------------	--	--	--	---	----------

\$ 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	<ol> <li>(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.</li> <li>High Loading of 400kV Singrauli-Anpara S/C.</li> </ol>
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	1. n-1 contingency of one cicuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other cicuit
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
ER-5K	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 cntingency 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	

#### 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	11000		10200		1666		
	1st Jan 2016 to	05-08'	11100	800	10300	8534	1766		
	4th Jan 2016	08-19'	11000		10200		1666		
		19-24	10250		9450		916		
		00-05	11000		10200		1666		-
		05-08'	11100		10300		1766		Revised due to emergency
NR	5th Jan 2016	08-09'	11000	800	10200	8534	1666		shutdown of 765/400kV
		09-19'	10300		9500		966	-700	ICT at Agra.
		19-24	9600		8800		266	-650	
		00-05	11000		10200	8534	1666		
	7th Jan 2016 to 31st Jan 2016	05-08'	11100	800	10300		1766		
		08-19'	11000		10200		1666		
		19-24	10250		9450		916		
NER	1st Jan 2016 to 31st Jan 2016	00-17 23-24	1160	45	1115	210	905		
	518t Jali 2010	17-23	1100		1055		845		
WR									
WK									
	1st Jan 2016 to	00-06	6150		5400	5835	0		
	2nd Jan 2016 to	06-18'	6150	750	5400	5900	0		
	2110 Jan 2010	18-24	6150		5400	5835	0		
		00-06	3650		3150	5835	0		
	3rd Jan 2016	06-18'	3650	500	3150	5900	0		
		18-24	3650	I	3150	5835	0		
		00-06	3650		3150	5835	0		
SR	4th Jan 2016	06-18'	3650	500	3150	5900	0		
		18-24	3650	Ī	3150	5835	0	I	
ļ		00-06	3650		3150	5835	0		Revised due to outage of
	5th Jan 2016	06-18'	3650	500	3150	5900	0	-2500	765kv Raichur-Sholapur
		18-24	3650	l	3150	5835	0		Ckt-2
	(d. L. 2016)	00-06	6650		5900	5835	65		
	6th Jan 2016 to	06-18'	6650	750	5900	5900	0	1	
	31st Jan 2016	18-24	6650	İ	5900	5835	65	1	

\* 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)

### 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 Jan 2016 to 31st Jan 2016	00-06 06-18' 18-24	4500	700	3800 3800 3800	999 1064 999	2801 2736 2801			
NER	1st Jan 2016 to 31st Jan 2016	00-17 23-24	1110	45	1065	0	1065			
WR		17-23	950		905		905			
SR *	1st Jan 2016 to 31st Jan 2016	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**

C								
	Import	(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C						
NR	Import	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.						
INK	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						
	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA						
NER		ICT at Misa. n-1 cntingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar						
NEK	Export	(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.						
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit						
эк	Import	Low Voltage at Gazuwaka (East) Bus.						

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
			STOA margin revised due to change in LTA/MTOA towards NR	WR-NR / import of NR
1	22/12/2015	Whole month of January	Revised due to commissioning of 765 kV Aurangabad - Sholapur D/C, 400 kV Kolhapur - Kudgi D/C and 765 kV Raichur - Kurnool ckt 1	WR-SR
Ţ	22/12/2015	2016	Revised due comissioning of new transmission elements	ER-NR
			Revised due commissioning of 765 kV Aurangabad-Sholapur D/C, 765 kV Dharamjaigarh - Jabalpur D/C and considering the present inter regional power flow pattern	W3 Zone injection
2		1/12/2015 to 5/12/2015	Revised due to shutdown of HVDC Bhadrawati pole 1	WR- SR/Import of SR
2	31/12/2105	Whole month of January 2016	Revised considering new new lines commissioned and outage of 220 kV Balipara - Samaguri	ER-NER/NER- ER
3	2/1/2016	3/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR- SR/Import of SR

Revised due to Outage of 765kV Raichur-Sholapur ckt-2.

Revised due to Outage of 765kV Raichur-Sholapur ckt-2.

Revised due to emergency shutdown of 765/400kV ICT at

4

5

3/1/2016

4/1/2016

4/1/2016

5/1/2016

5/1/2016 to

6/1/2016

Agra.

WR-

SR/Import of SR WR-

SR/Import of SR

WR-NR /

import of NR

# National Load Despatch Centre Total Transfer Capability for January 2016

ASSL	JMPTIONS IN BASECASE				
				Month : January '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	5199	3202	2642	2259
2	Haryana	5948	3423	3088	3088
3	Rajasthan	9489	8509	5784	5708
4	Delhi	3966	2030	905	905
5	Uttar Pradesh	12457	12419	5395	5351
6	Uttarakhand	1665	1402	614	350
7	Himachal Pradesh	1392	1023	219	76
8	Jammu & Kashmir	2184	2517	379	155
9	Chandigarh	234	116	0	0
	ISGS/IPPs	0	0	18010	10990
	Total NR	42534	34642	37036	28882
11	EASTERN REGION				
1	Bihar	2642	1775	180	100
2	Jharkhand	1121	739	455	215
3	Damodar Valley Corporation	2466	1899	3485	2815
4	Orissa	3449	2379	2390	1576
5	West Bengal	6671	4388	4796	3378
6	Sikkim	98	64	0	0
7	Bhutan	245	245	352	0
8	ISGS/IPPs	602	599	10700	9171
	Total ER	17293	12089	22359	17255
	WESTERN REGION				
1	Maharashtra	20219	10937	14007	7706
2	Gujarat	12105	8961	8303	5316
3	Madhya Pradesh	9578	3649	5550	1333
4	Chattisgarh	3568	2205	2661	1570
5	Daman and Diu	283	203	0	0
	Dadra and Nagar Haveli	798	562		0
7	Goa-WR	469	302	0	0
8	ISGS/IPPs	835	837	26803	19253
	Total WR	47856	27657	57324	35178

IV	SOUTHERN REGION				
1	Andhra Pradesh	6017	5521	5699	5264
2	Telangana	7012	5973	2713	2190
3	Karnataka	8161	7225	6446	5250
4	Tamil Nadu	13147	11563	7036	4865
5	Kerala	3409	2427	1687	701
6	Pondy	383	383	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	12143	12143
	Total SR	38218	33181	35724	30413
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	95	43	0	0
2	Assam	877	636	192	122
3	Manipur	98	58	0	0
4	Meghalaya	292	181	147	86
5	Mizoram	68	43	4	4
6	Nagaland	80	65	8	6
7	Tripura	190	88	85	85
8	ISGS/IPPs	0	0	1272	867
	Total NER	1700	1114	1708	1170
	Total All India	147602	108682	154151	112899