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

Issue Date: 31/3/2016 Issue Time: 1030 hrs Revision No. 1

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 June 2016 to 30th June 2016	00-24	2500	500	2000	55	1945		STOA Margin revised considering the completion of ISGS Allocation towards SR.
WR-NR*	1st June 2016 to 30th June 2016	00-24	7400	500	6900	6155	745		STOA Margin revised considering the grnat of of MTOA.
	ı		1						
ND ED#	1st June 2016 to	00-06	2000	200	1800	293	1507		
NR-ER*	30th June 2016	06-18'	2000	200	1800	358	1442		
	1 . 7 . 2016 .	18-24	2000		1800	293	1507		
ER-NR*	1st June 2016 to 30th June 2016	00-24	3800	300	3500	2431	1069		
	1st June 2016 to					No limit i	s being specified.		
W3-ER <sup>\$</sup>	30th June 2016	00-24					allowed via W3-EI	R-NR.	
	1st June 2016 to	00.04			37 11 1.1				
ER-W3	30th June 2016	00-24			No limit is	being specified.			
WR-SR SR-WR *	1st June 2016 to 30th June 2016 1st June 2016 to 30th June 2016	00-24	4000	750	3250	3250 No limit is	0 s being Specified.		
		00.06							<u> </u>
ER-SR	1st June 2016 to	00-06 18-24	2650	0	2650	2585	65		
EK-SK	30th June 2016	06-18'	2030	U	2030	2650	0		
	1st June 2016 to			<u> </u>			, , , , , , , , , , , , , , , , , , ,		
SR-ER *	30th June 2016	00-24				No limit is	s being Specified.		
		00.45	: 					1	I
ER-NER	1st June 2016 to	00-17 23-24	1350	45	1305	210	1095		
EK-NEK	30th June 2016	17-23	1160	43	1115	210	905		
		00-17							
NER-ER	1st June 2016 to	23-24	1250	45	1205	0	1205		
	30th June 2016	17-23	1340		1295		1295		
W3 zone Injection	1st June 2016 to 30th June 2016	00-24	No limit is being specified (in case of skewed inter-regional flows or any constraints appearing in the system, W3 zone export would be 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.									

<sup>\*</sup> 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 June 2016

Issue Date: 31/3/2016 Issue Time: 1030 hrs Revision No. 1

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	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 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
EK-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 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	

### **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									
	1st June 2016 to 05- 30th June 2016 08-	00-05	9900		9100	8586	514		STOA Margin revised considering the grnat of of MTOA.
NR <sup>*</sup>		05-08'	9900	800	9100		514		
NR		08-19'	9900		9100		514		
		19-24	9900		9100		514		
	1st June 2016 to	00-17	1350		1305	210	1095		
NER	30th June 2016	23-24	1330	45	1303		1075		
	30th June 2010	17-23	1160		1115		905		
WR									
****									
	1st June 2016 to	00-06	6650		5900	5835	65		
SR	30th June 2016	06-18'	6650	750	5900	5900	0		
	Jour Julie 2010	18-24	6650		5900	5835	65		

<sup>\*</sup> 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).

Margin in Simultaneous import of NR = A

WR-NR ATC =B

ER-NRATC = C

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

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

<sup>\*</sup> 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:

## **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	
	1.4 I 20164	00-06	4500	700	3800	348	3452		STOA Margin revised considering the completion of ISGS Allocation towards SR.	
NR*	1st June 2016 to 30th June 2016	06-18'			3800	413	3387			
	30th 3the 2010	18-24	4500		3800	348	3452			
NER	1st June 2016 to 30th June 2016	00-17 23-24	1250	45	1205	0	1205			
	30th Julie 2016	17-23	1340		1295		1295			
WR	VR									
****										
SR *	1st June 2016 to 30th June 2016	00-24		No limit is being Specified.						

<sup>\*</sup> 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**

	, constraints						
		(n-1) contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit					
	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					
	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	-	(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	Impout	(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 June 2016

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	31/3/2016	Whole Month	STOA Margin revised considering the grnat of of MTOA.	WR-NR
	31/3/2010	whole Month	STOA Margin revised considering the completion of ISGS Allocation towards SR.	NR-WR

ASSUI	MPTIONS IN BASECASE				
				Month : June '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	8037	9187	2694	2870
2	Haryana	7136	6607	2089	2090
3	Rajasthan	8262	7934	4898	4898
4	Delhi	4980	4853	938	938
5	Uttar Pradesh	12958	12026	6191	6330
6	Uttarakhand	1695	1469	976	843
7	Himachal Pradesh	1201	1299	879	913
8	Jammu & Kashmir	2209	1820	648	642
9	Chandigarh	291	259	0	0
10	ISGS/IPPs	0	0	20961	19557
	Total NR	46769	45453	40274	39080
II	EASTERN REGION				
1	Bihar	3085	2462	210	100
2	Jharkhand	1148	886	470	300
3	Damodar Valley Corporation	2769	2412	4082	3235
4	Orissa	3974	3053	3143	1978
5	West Bengal	7367	5327	5006	3600
6	Sikkim	99	64	0	0
7	Bhutan	215	215	1227	637
8	ISGS/IPPs	628	625	10953	10245
	Total ER	19285	15044	25090	20096
<u></u>	WESTERN RESIGN				
III	WESTERN REGION	10000	100=0	4.700	0017
	Maharashtra	19699	13672	14568	9815
	Gujarat	12968	10139	10079	7008
	Madhya Pradesh	7786	5193	3889	2717
	Chattisgarh	3455	2596	2116	1220
	Daman and Diu	313	247	0	0
	Dadra and Nagar Haveli	740	660	0	0
	Goa-WR	463	247	0	0
8	ISGS/IPPs	1078	1076	27268	23455
	Total WR	46502	33830	57919	44214

IV	SOUTHERN REGION				
1		6568	5901	5570	5024
2	Telangana	6982	6490	1686	1501
3	Karnataka	9040	7448	7353	5628
4	Tamil Nadu	15329	13542	8515	6715
5	Kerala	3503	2195	1590	657
6	Pondy	391	348	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	13047	11948
	Total SR	41902	36013	37761	31472
/	NORTH-EASTERN REGION				
1	Arunachal Pradesh	122	89	0	0
2	Assam	1057	846	308	170
3	Manipur	126	80	0	0
4	Meghalaya	261	181	173	123
5	Mizoram	81	65	8	8
6	Nagaland	103	100	24	21
7	Tripura	256	158	90	90
8	ISGS/IPPs	0	0	1503	1283
	Total NER	2006	1519	2106	1695
	T-1-1 All 1-3P-	450404	404050	100150	400557
	Total All India	156464	131859	163150	136557