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

Issue Time: 1310 hrs

Issue Date: 30/6/2016

Long Term Margin Changes Total Available Time Access (LTA)/ Available for in TTC Transfer Reliability Transfer Corridor **Medium Term** Date Period Short Term w.r.t. Comments Capability Margin Capability (hrs) **Open Access Open Access** Last (TTC) (ATC) (MTOA) # (STOA) Revision 1st July 2016 to STOA Margin revised due to NR-WR \* 00-24 2500 500 2000 55 1945 31st July 2016 completion of MTOA. 1st July 2016 to WR-NR\* 00-24 6700 500 6200 6170 30 31st July 2016 1800 00-06 2000 93 1707 1st July 2016 to STOA Margin revised due to NR-ER\* 200 06-18' 2000 1800 158 1642 31st July 2016 completion of MTOA. 18-24 2000 1800 93 1707 1st July 2016 to STOA margin revised due to grant ER-NR\* 00-24 4400 300 4100 2531 1569 31st July 2016 of MTOA from DVC to Haryana No limit is being specified. 1st July 2016 to W3-ER<sup>\$</sup> 00-24 31st July 2016 No Re-routing is allowed via W3-ER-NR. 1st July 2016 to ER-W3 00-24 No limit is being specified. 31st July 2016 1st July 2016 to WR-SR 00-24 4000 750 3250 3250 0 31st July 2016 1st July 2016 to SR-WR \* 00-24 No limit is being Specified. 31st July 2016 00-06 2650 2650 2585 65 0600-2650 2650 2650 0 1st July 2016 to Revised due to shutdown of 400 kV 0830' 0 2nd July 2016 0830-Kolar AC Filter Bus-3 2450 2650 2450 0 -200 1800' 0 18'-24 2450 2450 2585 ER-SR 00-06 3rd July 2016 to 2585 65 18-24 2650 0 2650 9th July 2016 2650 0 06-18' 00-06 10th July 2016 to 2142 508 2650 0 2650 18-24 31st July 2016 2207 06-18' 443 1st July 2016 to SR-ER \* 00-24 No limit is being Specified. 31st July 2016 00-17 1st July 2016 to 990 945 735 -260 Revised due to change in load-**ER-NER** 45 210 23-24 31st July 2016 generation balance, commissioning 990 -110 17-23 945 735 of Bongaigaon TPP (NTPC) Unit 00-17 1st July 2016 to #1, 400/220 kV 315 MVA ICT-II at 1400 1355 1355 200 NER-ER 45 0 23-24 31st July 2016 Balipara. 17-23 1470 1425 1425 180 No limit is being specified (in case of skewed inter-regional flows or any constraints W3 zone 1st July 2016 to 00-24 31st July 2016 appearing in the system, W3 zone export would be revised accordingly) Injection 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.

Revision No. 3

\* 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 July 2016

Issue Date: 30/6/2016

Issue Time: 1310 hrs

Revision No. 3

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
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\$ 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>2.High Loading of 400kV Singrauli-Anpara S/C.</li> </ol>
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
ER-NER	Low Voltage at Gazuwaka (East) Bus. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading 220 kV Balipara – Sonabil – Samaguri lines (200 MW).
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	9600		8800		99		Revised considering the present Inter-regional flow pattern &
NR <sup>*</sup>	1st July 2016 to	05-08'	9600	800	8800	8701	99	650	STOA margin revised due to grnat of MTOA from DVC to
	31st July 2016	08-19'	9600	000	8800		99		
		19-24	9600		8800		99		Haryana.
NER	1st July 2016 to 31st July 2016	00-17 23-24	990	45	945	210	735	-260	Revised due to change in load- generation balance, commissioning of Bongaigaon
NER		17-23	990		945		735	-110	TPP (NTPC) Unit #1, 400/220 kV 315 MVA ICT-II at Balipara.
WR									
		00-06	6650		5900	5835	65		
	1st July 2016 to	0600- 0830'	6650	750	5900	5900	0		Revised due to shutdown of 400 kV Kolar AC Filter
	2nd July 2016	0830- 1800'	6450	750	5700	5900	0	-200	Bus-3
GD		18-24	6450		5700	5835	0		
SR	3rd July 2016 to	00-06	6650		5900	5835	65		
	9th July 2016	06-18'	6650	750	5900	5900	0		
	Jul July 2010	18-24	6650		5900	5835	65		
	10th July 2016	00-06	6650		5900	5392	508		
	to 31st July 2016	06-18'	6650	750	5900	5457	443		
	10 31st July 2010	18-24	6650		5900	5392	508		

\* 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
	1st July 2016 to	00-06	4500	700	3800	148	3652		STOA Margin revised due to completion of MTOA
NR*	31st July 2016	06-18' 18-24	4500		3800 3800	213 148	3587 3652		
NED	1st July 2016 to 31st July 2016	00-17 23-24	1400	1.5	1355		1355	200	Revised due to change in load- generation balance,
NER		17-23	1470	45	1425	0	1425	180	commissioning of Bongaigaon TPP (NTPC) Unit #1, 400/220 kV 315 MVA ICT-II at Balipara.
WR									
·· K									
SR *	1st July 2016 to 31st July 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**

		(n-1) contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit
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	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.
		(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 220 kV Balipara – Sonabil –
NER		Samaguri lines (200 MW).
INER	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
SI	Import	Low Voltage at Gazuwaka (East) Bus.

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected	
1	4/5/2016	Whole month	Revised considering the present high generation trend in Rajasthan state	WR-NR/ Import of NR	
Ţ	4/5/2016	whole month	STOA margin revised due to change in LTA/MTOA allocation	NR-WR / Export of NR	
2	17/6/2016	10/7/2016 to 30/7/2016	STOA margin revised due to anticipated outage of Talcher Stage-2 Unit -6 approved in 120th OCC of SRPC held on 10- 06-2016.	ER-SR/ Import of SR	
	20/5/2015	Whole month	Revised considering the present Inter-Regional flow pattern.	Import of NR	
			STOA Margin revised due to completion of MTOA.	NR-WR, NR- ER	
3			STOA margin revised due to grant of MTOA from DVC to Haryana.	ER-NR	
5	28/0/2010		Revised due to change in load- generation balance, commissioning of Bongaigaon TPP (NTPC) Unit #1, 400/220 kV 315 MVA ICT-II at Balipara.	ER-NER/ NER-ER	
		1	1/7/2016 to 2/7/2016	Revised due to shutdown of 400 kV Kolar AC Filter Bus-3	ER-SR/ Import of SR

# National Load Despatch Centre Total Transfer Capability for July 2016

ASSU	MPTIONS IN BASECASE				
				Month : July '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	9417	9264	4060	4183
2	Haryana	7660	7356	2137	2137
3	Rajasthan	8189	8166	4373	4373
4	Delhi	5287	5321	920	920
5	Uttar Pradesh	12769	13458	5813	5944
6	Uttarakhand	1612	1357	754	981
7	Himachal Pradesh	1181	991	1070	1035
8	Jammu & Kashmir	2271	1484	732	727
9	Chandigarh	302	242	0	0
10	ISGS/IPPs	0	0	22339	21201
	Total NR	48688	47639	42198	41501
II	EASTERN REGION				
1	Bihar	2941	2113	200	131
2	Jharkhand	1089	865	400	380
3	Damodar Valley Corporation	2723	2359	3400	3101
4	Orissa	4005	2948	3109	2039
5	West Bengal	7030	5995	4768	3422
6	Sikkim	79	50	0	0
7	Bhutan	215	215	1514	1195
8	ISGS/IPPs	620	920	9770	9508
	Total ER	18701	15465	23161	19776
	WESTERN REGION				
1	Maharashtra	19604	13832	14300	9615
2	Gujarat	14023	9261	10629	6492
3	Madhya Pradesh	7485	5137	3789	2723
4	Chattisgarh	3467	2632	2116	1346
5	Daman and Diu	307	253	0	0
6	Dadra and Nagar Haveli	741	643	0	0
7	Goa-WR	406	236	0	0
8	ISGS/IPPs	1078	1075	27818	23042
-	Total WR	47111	33069	58651	43218

IV	SOUTHERN REGION				
1	Andhra Pradesh	6506	5552	5427	5181
2	Telangana	7319	6912	2324	1982
3	Karnataka	8101	6015	6437	5128
4	Tamil Nadu	15406	13893	8405	5905
5	Kerala	3782	2485	1596	659
6	Pondy	391	335	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	20	20	13317	11829
	Total SR	41614	35301	37506	30684
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	122	95	0	0
2	Assam	1052	964	261	240
3	Manipur	145	81	0	0
4	Meghalaya	250	175	208	189
5	Mizoram	86	63	8	0
6	Nagaland	111	104	22	16
7	Tripura	250	152	89	88
8	ISGS/IPPs	100	60	1529	1418
	Total NER	2115	1694	2117	1952
	Total All India	158474	133414	165162	138341