

**National Load Despatch Centre
Total Transfer Capability for March 2016**

Issue Date:28/03/2016

Issue Time: 1210 hrs

Revision No. 9

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 Mar 2016 to 31st Mar 2016	00-24	2500	500	2000	706	1294		
WR-NR*	1st Mar 2016 to 06th Mar 2016	00-24	7450	500	6950	6103	847		
	07th Mar 2016 to 08th Mar 2016	00-08	7450	500	6950	6103	847		
		08-24'	6300	500	5800	6103	0		
	09th Mar 2016	00-24	7450	500	6950	6103	847		
	10th Mar 2016	00-08	7450	500	6950	6103	847		
		08-24'	6300		5800	6103	0		
	11th Mar 2016	00-08	7450	500	6950	6103	847		
		08-24'	7450		6950	6103	847		
12th Mar 2016 to 31st Mar 2016	00-24	7450	500	6950	6103	847			
NR-ER*	1st Mar 2016 to 31st Mar 2016	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR*	1st Mar 2016 to 12th Mar 2016	00-24	4800	300	4500	2431	2069		
	13th Mar 2016	00-06	4800	300	4500	2431	2069		
		06-24'	2500		2200		0		
	14th Mar 2016	00-06	4800	300	4500	2431	2069		
		06-13'	2500		2500		0		
		13-24'	4800		4500		2069		
	15th Mar 2016	00-06	4800	300	4500	2431	2069		
		06-24'	4800		4500		2069		
16th Mar 2016 to 31st Mar 2016	00-24	4800	300	4500	2431	2069			
W3-ER ^s	1st Mar 2016 to 31st Mar 2016	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.						
ER-W3	1st Mar 2016 to 31st Mar 2016	00-24	No limit is being Specified.						
WR-SR	1st Mar 2016 to 11th Mar 2016	00-05	4000	750	3250	3250	0		
		05-22'	4000		3250	3250	0		
		22-24	4000		3250	3250	0		
	12th Mar 2016 to 13th Mar 2016	00-05	4000	750	3250	3250	0		
		05-08'	4000		3250	3250	0		
		08-22'	3450		2700	3250	0		
	14th Mar 2016 to 31st Mar 2016	22-24	3450	750	2700	3250	0		
		00-05	4000		3250	3250	0		
		05-22'	4000		3250	3250	0		
		22-24	4000		3250	3250	0		
SR-WR *	1st Mar 2016 to 31st Mar 2016	00-24	No limit is being Specified.						

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ER-SR	1st Mar 2016 to 16th Mar 2016	00-06	2650	0	2650	2585	65			
		18-24				2650	0			
	17th Mar 2016 to 23rd Mar 2016	00-06	2350	0	2350	2585	0			
		18-24				2650	0			
	24th Mar 2016	00-06	2350	0	2350	2585	0			
		06-11'				2650	0			
		11-18'				2650	0			
		18-24				2650	65			
	25th Mar 2016	00-06	2650	0	2650	2585	65			
		18-24				2650	0			
		06-18'				2650	0			
	26th Mar 2016 to 27th Mar 2016	00-06	2650	0	2650	2585	65			
		06-08'				2650	0			
		08-24'				2350	0			
28th Mar 2016 to 31st Mar 2016	00-06	2650	0	2650	2585	65				
	18-24				2650	0				
	06-18'				2650	0				
SR-ER *	1st Mar 2016 to 31st Mar 2016	00-24	No limit is being Specified.							
S1-S2	1st Mar 2016 to 31st Mar 2016	00-24	S1-S2 corridor TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.							
ER-NER	1st Mar 2016 to 28th Mar 2016	00-17	1470	45	1425	210	1215			
		23-24					1420	1165		
	29th Mar 2016	00-08	1470	45	1425	210	1215		Revised due to shutdown of 400/220 kV, 315 MVA ICT-II at Misa	
		08-17'					1050	795		-420
		17-23					1420	1165		
		23-24					1470	1215		
	30th Mar 2016 to 31st Mar 2016	00-17	1470	45	1425	210	1215			
23-24		1420					1165			
NER-ER	1st Mar 2016 to 28th Mar 2016	00-17	1300	45	1255	0	1255			
		23-24					1340	1295		
		17-23					1340	1295		
	29th Mar 2016	00-08	1300	45	1255	0	1255		Revised due to shutdown of 400/220 kV, 315 MVA ICT-II at Misa	
		08-17'					1000	955		-300
		17-23					1340	1295		
		23-24					1300	1255		
	30th Mar 2016 to 31st Mar 2016	00-17	1300	45	1255	0	1255			
23-24		1340					1295			
W3 zone Injection	1st Mar 2016 to 31st Mar 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)							

* 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).

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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) KWPCCL, n)Vandana Vidut

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 commissioned 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) Contingency 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 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 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
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	---

SR	1st Mar 2016 to 11th Mar 2016	00-06	6650	750	5900	5835	65	
		06-18'	6650		5900	5900	0	
		18-24	6650		5900	5835	65	
	12th Mar 2016 to 13th Mar 2016	00-06	6650	750	5900	5835	65	
		06-08'	6650		5900	5900	0	
		08-18'	6100		5350	5900	0	
		18-24	6100		5350	5835	0	
	14th Mar 2016 to 16th Mar 2016	00-06	6650	750	5900	5835	65	
		06-18'	6650		5900	5900	0	
		18-24	6650		5900	5835	65	
	17th Mar 2016 to 23rd Mar 2016	00-06	6350	750	5600	5835	0	
		06-18'	6350		5600	5900	0	
		18-24	6350		5600	5835	0	
	24th Mar 2016	00-06	6350	750	5600	5835	0	
		06-11'	6350		5600	5900	0	
		11-18'	6650		5900	5900	0	
		18-24	6650		5900	5835	65	
	25th Mar 2016	00-06	6650	750	5900	5835	65	
		06-18'	6650		5900	5900	0	
		18-24	6650		5900	5835	65	
	26th Mar 2016 to 27th Mar 2016	00-06	6650	750	5900	5835	65	
		06-08'	6650		5900	5900	0	
		08-18'	6350		5600	5900	0	
		18-24	6350		5600	5835	0	
28th Mar 2016 to 31st Mar 2016	00-06	6650	750	5900	5835	65		
	06-18'	6650		5900	5900	0		
	18-24	6650		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 = $A * C / (B + C)$

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 Mar 2016 to 31st Mar 2016	00-06	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
		18-24	4500		3800	999	2801		
NER	1st Mar 2016 to 28th Mar 2016	00-17	1300	45	1255	0	1255		Revised due to shutdown of 400/220 kV, 315 MVA ICT-II at Misa
		23-24	1340	45	1295		1295		
		17-23	1300	45	1255	0	1255		
	00-08	1000	955		955		-300		
	08-17'	1340	1295		1295				
	17-23	1300	1255		1255				
	30th Mar 2016 to 31st Mar 2016	00-17	1300	45	1255	0	1255		
23-24		1340	45	1295	1295				
WR									
SR *	1st Mar 2016 to 31st Mar 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

NR	Import	(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C 1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(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
	Export	
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur leads to 2500 MW loading on the other circuit
		Low Voltage at Gazuwaka (East) Bus.

**National Load Despatch Centre
Total Transfer Capability for March 2016**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	29/02/2016	Whole Month	Revised considering the present Inter-Regional Power flow pattern and STOA Margin revised due to grant of LTA/MTOA	WR-NR/ Import of NR
			Revised due to commissioning of new transmission elements on WR-SR corridor.	WR-SR/ Import of SR
2	6/3/2016	07-03-16 to 08-03-16	Revised due to the shutdown of 765 kV Gwalior-Jaipur- Ckt 2	WR-NR/ Import of NR
3	9/3/2016	10/3/2016 to 11/3/2016	Revised due to the shutdown of 765 kV Gwalior-Phagi ckt 1	WR-NR/ Import of NR
		12/3/2016 to 13/3/2016	Revised due to shutdown of one ckt at a time of 765 kV Aurangabad - Solapur	WR-SR/ Import of SR
4	10/3/2016	11/3/2016	Revised due to deferment of shutdown of 765 kV Gwalior-Phagi ckt 1	WR-NR/ Import of NR
5	12/3/2016	13/3/2016 to 15/3/2016	Revised due to shutdown of 400kV Kahalgaon-Barh-2 and 400kV Barh-Patna-1	ER-NR
6	14/3/2016	14/3/2016 to 15/3/2017	Revised due to deferment of shutdown of 400kV Kahalgaon-Barh-2 and 400kV Barh-Patna-2	ER-NR
7	16/3/2016	17/3/2016 to 31/3/2016	Revised due to 400kV Indravati-Jeypore line Tower Collapse.	ER-SR/ Import of SR
8	25/3/2016	24/3/2016 to 25/3/2016	Revised due to restoration of 400kV Indravati-Jeypore line from Tower Collapse	ER-SR/ Import of SR
		26/3/2016 to 27/3/2016	Revised due to restoration of 400kV Indravati-Jeypore line from Tower Collapse and due to emergency shutdown of 400 kV Rengali - Indravati	
		28/3/2016 to 31/3/2016	Revised due to restoration of 400kV Indravati-Jeypore line from Tower Collapse	
9	28/3/2016	29/3/2016	Revised due to shutdown of 400/220 kV, 315 MVA ICT-II at Misa	ER-NER/ NER-ER

ASSUMPTIONS IN BASECASE					
				Month : March '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	5782	4347	2184	2166
2	Haryana	5635	3030	2334	2334
3	Rajasthan	9713	8644	5806	5806
4	Delhi	3399	1819	738	738
5	Uttar Pradesh	13196	13591	5398	5327
6	Uttarakhand	1831	1619	428	388
7	Himachal Pradesh	1465	1239	364	267
8	Jammu & Kashmir	2352	2006	391	321
9	Chandigarh	188	88	0	0
10	ISGS/IPPs	0	0	20070	13525
	Total NR	43560	36383	37713	30872
II	EASTERN REGION				
1	Bihar	3054	2141	210	100
2	Jharkhand	1167	925	430	215
3	Damodar Valley Corporation	2440	2044	3305	2685
4	Orissa	3588	2613	2792	1436
5	West Bengal	7206	5126	5276	4150
6	Sikkim	99	64	0	0
7	Bhutan	245	245	222	52
8	ISGS/IPPs	605	624	10472	9149
	Total ER	18405	13781	22707	17787
III	WESTERN REGION				
1	Maharashtra	19478	13189	14472	8950
2	Gujarat	12927	10173	11306	7938
3	Madhya Pradesh	7999	4958	4745	2377
4	Chattisgarh	3711	2343	1750	1368
5	Daman and Diu	300	246	0	0
6	Dadra and Nagar Haveli	783	317	0	0
7	Goa-WR	488	213	0	0
8	ISGS/IPPs	1075	1070	26242	21619
	Total WR	46762	32510	58515	42252

IV	SOUTHERN REGION				
1	Andhra Pradesh	6158	5510	6058	5620
2	Telangana	7461	6374	2730	2204
3	Karnataka	8469	7332	6468	4869
4	Tamil Nadu	13780	12143	6536	5241
5	Kerala	3692	2714	1749	722
6	Pondy	391	297	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	13250	11981
	Total SR	40059	34459	36791	30637
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	75	40	0	0
2	Assam	794	625	215	135
3	Manipur	89	53	0	0
4	Meghalaya	226	150	118	63
5	Mizoram	57	41	4	4
6	Nagaland	67	62	8	6
7	Tripura	225	145	90	86
8	ISGS/IPPs	0	0	1057	820
	Total NER	1533	1116	1492	1114
	Total All India	150288	118219	157219	122662