Revision No. 9

Issue Time: 1050 hrs

Issue Date: 19th Mar 2019

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 March 2019	00-06				195	1805			
NR-WR*	to 31st March	06-18	2500	500	2000	250	1750			
	2019	18-24				195	1805			
	1st March 2019		13250	500	12750	9383	3367			
	to 7th March 2019	00-24	12300**	500	11800**	8433**	3367**			
	8th March 2019	9 00-24	13250	500	12750	9433	3317			
	our Waten 2017	00-24	12300**	500	11800**	8483**	3317**			
		00-08'	13250	500	12750	9433	3317			
	9th March 2019		12300**		11800**	8483**	3317**			
		08-24'	10750	500	10250	9433	817			
WR-NR*		March	9800**		9300**	8483**	817**			
	10th March 2019 to 18th March 2019	00-24	10750	500	10250	9433	817			
			9800** 10750		9300** 10250	8483** 9433	<u>817**</u> 817			
	19th March 2019	00-24		500						
	20th March		9800** 10750		9300** 10250	8483** 9433	<u>817**</u> 817		Testing of HVDC Champa-	
	20th March 2019	00-24	9800**	500	9300**	8483**	817**	-2500	Kurukshetra Pole-1, 2 and 3 for comissoining of Pole-3.	
	21st March		13250	500	12750	9433	3317			
	2019 to 31st March 2019	00-24	12300**		11800**	8483**	3317**			
	1st March 2019	00-06	2000		1800	193	1607			
NR-ER*	to 31st March	06-18	2000	200	1800	303	1497]		
	2019 1st March 2019 to 7th March	<u>18-24</u> 00-24	2000 5250	300	<u>1800</u> 4950	193 3892	1607 1058			
ER-NR*	2019	00-24	5250	300	4930	3892	1038			
	8th March 2019 to 31st March 2019	00-24	5250	300	4950	3979	971			
W3-ER	1st March 2019 to 31st March 2019	00-24				No limit is	s being specified.			
ER-W3	1st March 2019 to 31st March 2019	00-24	No limit is being specified.							
		00-05	5550		5050		615			
WR-SR	1st March 2019 to 31st March	05-22	5550	500	5050	4435	615			
, , 1 , -0 1 ,	2019	22-24	5550	200	5050		615			
SR-WR *	1st March 2019 to 31st March 2019					No limit is	being Specified.			

19th Mar 201	9	Issu	e Time: 105	50 hrs		Revision No. 9			
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	
	00-06				2762	1938			
to 31st March	06-18	4950	250	4700	2847	1853			
2019	18-24				2762	1938	1		
1st March 2019 to 31st March 2019	00-24				No limit is	s being Specified.			
1 st March 2010	00-17	900		855		630			
to 09th March	17-23	1090	45	1045	225	820			
2019 2 10th March 0	23-24	900	-	855		630			
	00-17	900		855		630			
	17-23	1090	45	1045	225	820			
March 2019									
15th March			45		225				
2019									
R-NER									
			45		225				
March 2019					223				
			45						
					225				
March 2019					223				
26th March			15		225				
March 2019			45						
1st March 2019					0				
2019			45		0				
10th March					0				
March 2019			43		0				
15th March					0				
2019			45		0				
16th March			15		0				
2019 to 18th March 2019			43		0				
19th March			4.5		0				
2019 to 25th March 2019	17-23 23-24	2070 2010	45	2025	0	2025			
	117 114	20110		1065		11165			
	Date Ist March 2019 Ioth March 2019	DateFinite Period (here)1st March 2019 (2019)0.00-04 (0.017)1st March 2019 (2019)0.00-24 (0.017)1st March 2019 (2019)0.00-17 (2019)10th March 2019 (2019)0.00-17 (2019)10th March 2019 (2019)0.00-17 (2014)10th March 2019 (2019)0.00-17 (2014)10th March 2019 (2019)0.00-17 (2014)10th March 2019 (2019)0.00-17 (2014)10th March 2019 (2019)0.01-17 (2014)10th March 2019 (2019)0.01-17 (2014)10th March 2019 (2014)0.01-17 (2014)10th March 20190.01-17 (2014) <td< td=""><td>Initial problemInitial pro</td><td>DateFrindleRange strange 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Issue Date:	19th Mar 201	9	Issue Time: 1050 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	
NER-ER	2019 to 31st	17-23	2380	45	2335	0	2335			
	March 2019	23-24	2270		2225		2225			
		•								
W3 zone Injection	1st March 2019 to 31st March 2019	00-24	No limit is b accordingly)	01	d (In case ofan	y constraints appea	aring in the system	n, W3 zone e	export would be revised	
			, Import of S	3(Kerala), I	mport of Punj	jab and Import of	f DD & DNH is u	iploaded oi	n NLDC website under Intra-	
	ction in Monthl									
* 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).										
**Considerin	ng 400 kV Rihan	d stage-III - V	indhyachal P	S D/C line as	inter-regional	line for the purpos	se of scheduling, n	netering and	accounting and 950 MW ex-bus	

generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala

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 o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

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.

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									
			17650		16850		3575		
		00-06	16700**		15900**		3575**		
			18900		18100		4825		
		06-17	17950**		17150**		4825**		
	1st March 2019		17000		16200	13275	2925		
	to 07th March 2019	17-18	16050**	800	15250**	12325**	2925**		
			17000		16200		2925		
		18-23	16050**		15250**	-	2925**		
		22.24	17000		16200		2925		
		23-24	16050**		15250**		2925**		
			17650	800	16850		3438		
		00-06	16700**		15900**		3438**		
		06-17	18900		18100		4688		
			17950**		17150** 16200 15250**		4688**		
NR		1	17000			13412 12462**	2788		
	8th March 2019	17-18	16050**				2788**		
		10.00	17000		16200		2788		
		18-23	16050**		15250**		2788**		
			17000		16200		2788		
		23-24	16050**		15250**		2788**		
			17650		16850		3438		
		00-06	16700**		15900**		3438**		
			18900		18100		4688		
		06-08	17950**		17150**	13412	4688**		
	9th March 2019		15350	800	14550	12462**	1138		
		08-17	14400**		13600**		1138**		
			13800		13000		0		
		17-24	12850**		12050**		0**		

			14350		13550		138															
		00-06	12400**		12000**		120**															
	10th March		13400** 15350		12600** 14550	13412	138** 1138		-													
	2019 to 18th	06-17	10000	800	11000		1100															
	March 2019		14400**		13600**	12462**	1138**		-													
		17-24	13800		13000		0															
			12850**		12050**		0**															
		00.00	14350		13550		138															
		00-06	13400**		12600**		138**															
	19th March		15350		14550	13412	1138		-													
	2019	06-17	14400**	800	13600**	12462**	1138**															
			13800		13000	12402	0		-													
		17-24																				
NR			12850** 14350		12050** 13550		0** 138															
		00-06	14550		15550		130	-3300														
			13400**		12600**		138**		_													
	20th March	06-17	15350	800	14550	13412	1138	-3500	Testing of HVDC Champa- Kurukshetra Pole-1, 2 and 3 for													
	2019	00-17	14400**	800	13600**	12462**	1138**	-3300	comissoining of Pole-3.													
			13800		13000		0															
		17-24	12850**		12050**		0**	-3200														
			17650		16850		3438															
		00-06	1 (700**		1,500,0 **		2420**															
	21st March		16700** 18900		15900** 18100	13412	3438** 4688		-													
	2019 to 31st	06-17		800																		
	March 2019)19	17950**															17150**	12462**	4688** 2788		-
		17-24	17000		16200		2788															
			16050**		15250**		2788**															
	1st March 2019	00-17	900		855		630															
	to 09th March	17-23	1090	45	1045	225	820															
	2019	23-24	900		855		630															
	10th March	00-17	900		855		630															
	10th March 2019 to 14th	17-23	1090	45	1045	225	820															
NER	March 2019 R 15th March 2019 16th March 2019 to 18th	23-24	900		855		630															
		00-17	1380		1335		1110															
		17-23	1340	45	1295	225	1070															
		23-24	1380		1335		1110															
		00-17	900		855		630															
		17-23	1090	45	1045	225	820															
	March 2019	23-24	900		855		630															

	19th March	00-17	900		855		630	
	2019 to 25th	17-23	1090	45	1045	225	820	
NER	March 2019	23-24	900		855		630	
NEK	26th March	00-17	1380		1335		1110	
	2019 to 31st	17-23	1340	45	1295	225	1070	
	March 2019	23-24	1380		1335		1110	
WR								
	1st March 2019	00-06	10500		9750	7197	2553	
SR	to 31st March	06-18	10500	750	9750	7282	2468	
	2019	18-24	10500		9750	7197	2553	

* 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).

**Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

* 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

 $\mathbf{ER}\mathbf{-NR} \mathbf{ATC} = \mathbf{C}$

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

Simultaneous Export Capability

Corrido r	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 March 2019		4500		3800	388	3412			
NR*	to 31st March	06-18	4500	700	3800	553	3247			
	2019	18-24	4500		3800	388	3412			
	1st March 2019	00-17	2010		1965		1965			
	to 9th March 2019	17-23	2070	45	2025	0	2025			
		23-24	2010	F	1965		1965			
	10th March	00-17	2010	45	1965		1965			
	2019 to 14th March 2019	17-23	2070		2025	0	2025			
		23-24	2010		1965		1965			
	15th March	00-17	2270	45	2225		2225			
NER	2019	17-23	2380		2335	0	2335			
	2017	23-24	2270		2225		2225			
	16th March	00-17	2010		1965		1965			
	2019 to 18th	17-23	2070	45	2025	0	2025			
	March 2019	23-24	2010		1965		1965			
	19th March	00-17	2010		1965		1965			
	2019 to 25th	17-23	2070	45	2025	0	2025			
	March 2019	23-24	2010		1965		1965			
	26th March	00-17	2270		2225		2225			
	2019 to 31st	17-23	2380	45	2335	0	2335			
	March 2019	23-24	2270		2225		2225			
WR										
SR *	1st March 2019 to 31st March 2019	00-24	y honofit on	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 (Corridor wise)

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 9
	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
WR-NR	RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-2 to 9
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 9
ER-NR	 N-1 contingencies of 400 kv Mejia-Maithon A S/c N-1 contingencies of 400 kv Kahalgaon-Banka S/c N-1 contingencies of 400kV MPL- Maithon S/C 	Rev-0 to 9
WR-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 9
and ER-	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 9
SR	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 9
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misab. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 9
NER-ER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misab. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 9
W3 zone Injection		Rev-0 to 9

Limiting Constraints (Simultaneous)

			Applicable Revisions
		 N-1 contingencies of 400 kv Mejia-Maithon A S/c N-1 contingencies of 400 kv Kahalgaon-Banka S/c N-1 contingencies of 400kV MPL- Maithon S/c 	Rev-0 to 9
	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-2 to 9
NR	Import	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
		RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 9
	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misab. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 9
NER	Export	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 9
		n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 9
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 9
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 9

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
			Revised STOA margins due to: (i) Additional 20 MW LTA to Delhi from Ostro Kutch Wind Power Ltd (OKWPL) (ii) Operationalization of 108 MW MTOA from SKS Power Gen Ltd to Noida Power Company	WR-NR/Import of NR
1 4th Jan 2019		Whole Month	Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs	ER-SR/WR- SR/Import of SR
			Revised TTC due to normalization of Champa Kurukshetra bipole	WR-NR/Import of NR
2	28th Jan 2019	Whole Month	Change in pattern of inter-regional flow towards NR	Import of NR
			Revised STOA margin due to termination of 100 MW MTOA from LANCO Anpara power limited to TANGEDCO	WR-SR/Import of SR
3	27th Feb 2019	01st Mar 2019 to 09th Mar 2019	Shutdown of 400/220 KV ICT-I at Misa for augmentation of existing ICT	ER-NER/NER-ER (Import/Export of NER)
c	2701 FED 2019	10th Mar 2019 to 31st Mar 2019	Change in load - generation balance in NER	ER-NER (Import of NER)
4	07th Mar 2019	08th Mar 2019 to 31st Mar	Operationalization of 87 MW LTA from Teesta - III HEP to Rajasthan	ER-NR/Import of NR
+		2019	Operationalization of 50 MW LTA from Orange Sirong Wind Power Limited (OSWPPL) to Haryana	WR-NR/Import of NR
5	08th Mar 2019	09th Mar 2019 to 18th Mar 2019	Simultaneous shutdown of HVDC Champa-Kurukshetra Pole- 1 and 2	WR-NR/Import of NR
6	09th Mar 2019	10th Mar 2019 to 14th Mar 2019	Revised due to Extended shutdown of 400/220kV ICT-1 at Misa	ER-NER/NER-ER (Import/Export of NER)
7	15th Mar 2019	16th Mar 2019 to 18th Mar 2019	Revised due to Extended shutdown of 400/220kV ICT-1 at Misa	ER-NER/NER-ER (Import/Export of NER)
8	18th Mar 2019	19th Mar 2019 to 24th Mar 2019	Revised due to Extended shutdown of 400/220kV ICT-1 at Misa	ER-NER/NER-ER (Import/Export of NER)
0	TOULINIAL 2019	19th Mar 2019	Testing of HVDC Champa-Kurukshetra Pole-1 , 2 and 3 for comissoining of Pole-3.	WR-NR/Import of NR
9	19th Mar 2019	20th Mar 2019	Testing of HVDC Champa-Kurukshetra Pole-1 , 2 and 3 for comissoining of Pole-3.	WR-NR/Import of NR

ASSUN	IPTIONS IN BASECASE				
				Month : March'19	
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	7631	5304	3251	3411
2	Haryana	7632	6427	2416	2583
3	Rajasthan	10162	10300	5870	5563
4	Delhi	4284	2991	541	541
5	Uttar Pradesh	13764	11993	6360	6181
6	Uttarakhand	1805	1129	722	273
7	Himachal Pradesh	1447	1176	204	87
8	Jammu & Kashmir	2034	1487	292	258
9	Chandigarh	241	124	0	0
10	ISGS/IPPs	30	29	18516	11014
	Total NR	49030	40961	38172	29911
П	EASTERN REGION				
1	Bihar	3735	2424	351	207
2	Jharkhand	970	764	360	223
3	Damodar Valley Corporation	2950	2716	5233	4381
4	Orissa	3969	3052	2364	1707
5	West Bengal	6784	4769	5378	4065
6	Sikkim	104	103	0	0
7	Bhutan	207	205	643	336
8	ISGS/IPPs	1120	622	12272	9067
	Total ER	19839	14656	26600	19986
	WESTERN REGION				
1	Maharashtra	17960	14784	12516	11172
2	Gujarat	13475	11383	8764	8663
3	Madhya Pradesh	10868	7296	5106	4320
4	Chattisgarh	3606	2974	2248	2297
5	Daman and Diu	324	247	0	0
6	Dadra and Nagar Haveli	793	626	0	0
7	Goa-WR	522	334	0	0
8	ISGS/IPPs	4337	3788	37969	27558
	Total WR	51885	41432	66603	54011

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	8132	7075	6103	4712
2	Telangana	9743	7879	4823	4423
3	Karnataka	10431	6863	7633	5219
4	Tamil Nadu	14513	10701	6958	5513
5	Kerala	3871	2392	1678	402
6	Pondy	329	337	0	0
7	Goa-SR	74	76	0	0
8	ISGS/IPPs	0	0	14302	12280
	Total SR	47093	35324	41497	32550
V	NORTH-EASTERN REGION	400	70		0
1	Arunachal Pradesh	133	72	0	0
2	Assam	1233	1035	185	142
3	Manipur	162	92	0	0
4	Meghalaya	301	216	197	105
5	Mizoram	90	67	8	14
6	Nagaland	115	76	12	6
7	Tripura	198	142	72	75
8	ISGS/IPPs	116	76	1902	1404
	Total NER	2348	1776	2376	1746
	Total All India	170195	134586	175247	138576