National Load Despatch Centre
Total Transfer Capability for May 2019

Issue Date: 02nd May 2019 Issue Time: 1325 hrs Revision No. 6

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 May 2019 to 31st May 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	01st May 2019 to 02nd May 2019	00-24	13250 12300**	500	12750 11800**	9842 8892**	2908 2908**		
	3rd May 2019	00-07	13250 12300**	500	12750 11800**	9842 8892**	2908 2908**		
		07-24	10750 9800**	500	10250 9300**	9842 8892**	408 408**		
	4th May 2019 to 10th May 2019	00-24	10750 9800**	500	10250 9300**	9842 8892**	408 408**		
	11th May 2019 to 31st May 2019	00-24	13250 12300**	500	12750 11800**	9842 8892**	2908 2908**		
NR-ER*	1st May 2019 to 31st May 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st May 2019 to 31st May 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st May 2019 to 31st May 2019	00-24	No limit is being specified.						
ER-W3	1st May 2019 to 31st May 2019	00-24	No limit is being specified.						
WR-SR	1st May 2019 to 31st May 2019	00-05	5550	500	5050	4213	837		
		05-22	5550		5050		837		
		22-24	5550		5050		837		
SR-WR *	1st May 2019 to 31st May 2019	00-24	No limit is being Specified.						
ER-SR	1st May 2019 to 02nd May 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
	03rd May 2019	00-06	4950	250	4700	2748	1952		Revised in anticipation of forced outages of major links in ER-SR corridor due to cyclone 'FANI'
		06-10	4950		4700	2833	1867		
		10-18	1950		1700	2833	0	-3000	
		18-24	1950		1700	2748	0	-3000	

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ER-SR	04th May 2019	00-06	1950	250	1700	2748	0	-3000	Revised in anticipation of forced outages of major links in ER-SR corridor due to cyclone 'FANI'
		06-18				2833	0		
		18-24				2748	0		
	05th May 2019 to 31st May 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
SR-ER *	1st May 2019 to 31st May 2019	00-24	No limit is being Specified.						
ER-NER	1st May 2019 to 31st May 2019	00-17	1220	45	1175	267	908		
		17-23	1210		1165		898		
		23-24	1220		1175		908		
NER-ER	1st May 2019 to 31st May 2019	00-17	2350	45	2305	0	2305		
		17-23	2250		2205		2205		
		23-24	2350		2305		2305		
W3 zone Injection	1st May 2019 to 31st May 2019	00-24	No limit is being specified (In case ofany constraints appearing in the system, W3 zone export would be revised accordingly)						
Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.									

* 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.

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 willl 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									
NR	1st May 2019 to 02nd May 2019	00-06	17650 16700**	800	16850 15900**	13821 12871**	3029 3029**		
		06-17	18900 17950**		18100 17150**		4279 4279**		
		17-24	17000 16050**		16200 15250**		2379 2379**		
	3rd May 2019	00-06	17650 16700**	800	16850 15900**	13821 12871**	3029 3029**		
		06-07	18900 17950**		18100 17150**		4279 4279**		
		07-17	15350 14400**		14550 13600**		729 729**		
		17-24	13800 12850**		13000 12050**		0 0**		
	4th May 2019 to 10th May 2019	00-06	14350 13400**	800	13550 12600**	13821 12871**	0 0**		
		06-17	15350 14400**		14550 13600**		729 729**		
		17-24	13800 12850**		13000 12050**		0 0**		
	11th May 2019 to 31st May 2019	00-06	17650 16700**	800	16850 15900**	13821 12871**	3029 3029**		
		06-17	18900 17950**		18100 17150**		4279 4279**		
		17-24	17000 16050**		16200 15250**		2379 2379**		
NER	1st May 2019 to 31st May 2019	00-17	1220	45	1175	267	908		
		17-23	1210		1165		898		
		23-24	1220		1175		908		
WR									
SR	1st May 2019 to 02nd May 2019	00-06	10500	750	9750	6961	2789		
		06-18	10500		9750	7046	2704		
		18-24	10500		9750	6961	2789		

SR	03rd May 2019	00-06	10500	750	9750	6961	2789		Revised in anticipation of forced outages of major links in ER-SR corridor due to cyclone 'FANI'
		06-10	10500		9750	7046	2704		
		10-18	7500		6750	7046	0	-3000	
		18-24	7500		6750	6961	0	-3000	
	04th May 2019	00-06	7500	750	6750	6961	0	-3000	Revised in anticipation of forced outages of major links in ER-SR corridor due to cyclone 'FANI'
		06-18	7500		6750	7046	0	-3000	
		18-24	7500		6750	6961	0	-3000	
	5th May 2019 to 31st May 2019	00-06	10500	750	9750	6961	2789		
		06-18	10500		9750	7046	2704		
		18-24	10500		9750	6961	2789		

* 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
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 May 2019 to 31st May 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st May 2019 to 31st May 2019	00-17	2350	45	2305	0	2305		
		17-23	2250		2205		2205		
		23-24	2350		2305		2305		
WR									
SR *	1st May 2019 to 31st May 2019	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 (Corridor wise)

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 6
WR-NR	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0 to 6
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 6
ER-NR	1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev-0 to 6
WR-SR and ER-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 5
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
	n-1 contingency of 765kV Wardha-Nizamabad will lead to more than 2750MW on other ckt	Rev-6
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 6
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 6
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 6
W3 zone Injection	---	Rev-0 to 6

Limiting Constraints (Simultaneous)

			Applicable Revisions
NR	**Import**	1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev-0 to 6
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0 to 6
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 6
		(n-1) contingency of 400 kV Saranath-Pusauli	
NER	**Import**	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 6
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 6
SR	**Import**	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 5
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 6
		n-1 contingency of 765kV Wardha-Nizamabad will lead to more than 2750MW on other ckt	Rev-6

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	07th Mar 2019	Whole Month	Operationalization of 87 MW LTA from Teesta - III HEP to Rajasthan	ER-NR/Import of NR
			Operationalization of 50 MW LTA from Orange Sirong Wind Power Limited (OSWPPL) to Haryana	WR-NR/Import of NR
2	28th Mar 2019	Whole Month	Operationalization of the following LTAs:- a) Tuticorin - Mytrah Power to UPPCL, Uttar Pradesh - 51.84 MW	WR-NR/Import of NR
			Allocation of 40 MW power from Mouda Stg-II to Assam	ER-NER/Import of NER
3	05th April 2019	Whole Month	a) Operationalization of 25.74 MW LTA from Tuticorin Mytrah Power to Assam. b) Operationalization of 5 MW LTA from Rajasthan (Solar Power) to Assam. c) Completion of the period of allocation of 40 MW power from Mouda Stg-II to Assam.	ER-NER/Import of NER
4	28th April 2019	Whole Month	a) Operationalization of 73.75 MW LTA to DMRC from Rewa UMSP - ACME Power (29.5 MW), Arinsun Power (29.5 MW) and Mahindra Power (14.75 MW) b) Change in LTA from KSK Mahanadi to UP from 750 MW to 950 MW c) Change in LTA from Tuticorin - Mytrah Power to UP from 51.84 MWto 74.82 MW d) Change in LTA from Tuticorin - Orange Power to Haryana from 50 MW to 100 MW e) Change in LTA from Ostro Kutch Wind Private Limited to UP from 90.2 MW to 100 MW	WR-NR/Import of NR
			Change in LTA from Tutitorin Mytrah Power to Assam from 25.74 MW to 37.4 MW	ER-NER/Import of NER
			a) Change in MTOA from KSK Mahanadi to AP from 400 MW to 150 MW b) Operationalization of 13.65 MW MTOA NSPCL to SAIL, Salem (TN)	WR-SR/Import of SR
5	01st May 2019	03rd May 2019 to 10th May 2019	Revised due to shutdown of HVDC Champa-Kurukshetra Bi pole & testing works for Pole-3 commissioning works.	WR-NR/ Import of NR
6	02nd May 2019	03rd May 2019 to 04th May 2019	Revised in anticipation of forced outages of major links in ER-SR corridor due to cyclone 'FANI'	ER-SR/ Import of SR

ASSUMPTIONS IN BASECASE					
				Month : May'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	8184	7955	3655	3772
2	Haryana	7742	6060	1804	1804
3	Rajasthan	10821	11351	6619	6619
4	Delhi	5736	5654	584	584
5	Uttar Pradesh	13815	11240	5896	6027
6	Uttarakhand	1968	1197	903	629
7	Himachal Pradesh	1513	965	376	345
8	Jammu & Kashmir	2964	2350	1148	1147
9	Chandigarh	323	221	0	0
10	ISGS/IPPs	29	29	21130	14994
	Total NR	53095	47021	42115	35921
II	EASTERN REGION				
1	Bihar	4571	3152	4571	171
2	Jharkhand	1181	849	1181	283
3	Damodar Valley Corporation	2967	2755	2967	3803
4	Orissa	4321	3222	4321	2009
5	West Bengal	7680	5576	7680	4153
6	Sikkim	105	90	105	0
7	Bhutan	197	194	197	604
8	ISGS/IPPs	628	630	628	8637
	Total ER	21650	16467	21650	19659
III	WESTERN REGION				
1	Maharashtra	18707	17047	13072	12944
2	Gujarat	15115	13873	9051	8967
3	Madhya Pradesh	8232	8092	4716	5286
4	Chattisgarh	3573	3193	2615	2096
5	Daman and Diu	330	301	0	0
6	Dadra and Nagar Haveli	802	726	0	0
7	Goa-WR	497	418	0	0
8	ISGS/IPPs	4757	4430	40073	33911
	Total WR	52014	48079	69527	63203

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	8462	7402	6235	4712
2	Telangana	7706	6264	4132	3567
3	Karnataka	9349	5394	7772	4852
4	Tamil Nadu	15245	13279	8114	6938
5	Kerala	4131	2670	1698	427
6	Pondy	359	358	0	0
7	Goa-SR	72	70	0	0
8	ISGS/IPPs	0	0	12349	12028
	Total SR	45325	35436	40300	32525
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	138	64	0	0
2	Assam	1516	1225	225	182
3	Manipur	178	84	0	0
4	Meghalaya	273	203	229	154
5	Mizoram	99	68	64	8
6	Nagaland	119	81	21	8
7	Tripura	245	147	75	75
8	ISGS/IPPs	152	78	2093	1617
	Total NER	2721	1950	2707	2044
	Total All India	175296	149380	181738	153992