

**National Load Despatch Centre
Total Transfer Capability for September 2014**

Issue Date: 03/09/2014

Issue Time: 1330 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 September 2014 to 30th September 2014	00-24	2500	500	2000	651	1349		
WR-NR	1st September 2014 to 5th September 2014	00-17	4100	500	3600	4380	0		
		23-24	4100		3600		0		
	17-23	4100	3600	0					
	6th September 2014 to 30th September 2014	00-17	4900	500	4400	4380	20		
		23-24	4900		4400		20		
		17-23	4900		4400		20		
NR-ER*	1st September 2014 to 30th September 2014	00-06	1000	200	800	293	507		
		06-17'	1000		800	358	442		
		17-18'	1100		900	358	542		
		18-23	1100		900	293	607		
		23-24	1000		800	293	507		
ER-NR	1st September 2014 to 2nd September 2014	00-17	4500	300	4200	2431	1769		
		23-24	4500		4200	2431	1769		
	3rd September 2014 to 30th September 2014	00-17	3400	300	3100	2431	669		
		23-24	3400		3100	2431	669		
17-23	3400	3100	2431	669					
W3-ER ^s	1st September 2014 to 30th September 2014	00-24	1600	300	1300	551	749		
ER-W3	1st September 2014 to 30th September 2014	00-24	1000	300	700	874	0		
WR-SR	1st September 2014 to 30th September 2014	00-24	2100	750	1350	1350	0		
SR-WR *	1st September 2014 to 30th September 2014	00-24	No limit is being Specified.						
ER-SR	1st September 2014 to 30th September 2014	00-06	2700	0	2700	2512	188		
		18-24				2577	123		
06-18'	2577	123							
SR-ER *	1st September 2014 to 30th September 2014	00-24	No limit is being Specified.						
ER-NER	1st September 2014 to 3rd September 2014	00-06	700	50	650	210	440		
		23-24	700		650	210	440		
		06-17'	700		570	210	360		
		17-18	620		570	210	360		
	4th September 2014	00-06	700	300	400	210	190		Import TRM of NER revised considering revised Pallatana module 1.
		23-24	700		400	210	190		
		06-17'	700		320	210	110		
		17-18	620		320	210	110		
	5th September 2014	00-06	700	300	400	210	190		
		23-24	700		400	210	190		
		06-17'	700		320	210	110		
		17-18	620		320	210	110		
6th September 2014 to 30th September 2014	00-06	700	300	400	210	190			
	23-24	700		400	210	190			
	06-17'	700		320	210	110			
	17-18	620		320	210	110			
NER-ER	1st September 2014 to 3rd September 2014	00-17	690	100	590	0	590		
		23-24	690		590	560			
		17-23	660		590	560			
	4th September 2014	00-07'	690	100	590	0	370	-220	TTC revised due to shutdown of 220 kV Misa – Samaguri ckt I
		07-16'	470		370	370			
		16-17	470		370	370			
	5th September 2014	00-07'	690	100	590	0	590		
		23-24	690		590	560			
		07-16'	470		370	370	-220		
	6th September 2014 to 30th September 2014	00-17	690	100	590	0	590		
		23-24	690		590	560			
		17-23	660		590	560			

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S1-S2	1st September 2014 to 5th September 2014	00-24	3075	300	2775	2969	0		
	6th September 2014 to 9th September 2014	00-24				2880	0		
	10th September 2014 to 16th September 2014	00-24				2969	0		
	17th September 2014 to 18th September 2014	00-24				2880	0		
	19th September 2014	00-24				3037	0		
	20th September 2014 to 21st September 2014	00-24				2836	0		
	22nd September 2014 to 30th September 2014	00-24				2887	0		
Import of Punjab	1st September 2014 to 30th September 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st September 2014 to 30th September 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st September 2014 to 30th September 2014	00-17	9000	200	8800	6843	1957		
		17-23	9500		9300		2457		

* 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).

1) S1 comprises of AP and Karnataka; S2 comprises of Tamil Nadu, Kerala and Pondicherry

2) W3 comprises of the following regional entities :

a) Chattisgarh, b) Jindal Power Limited (JPL) , 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) KWPL, n)Vandana Viduyt

The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

S 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.

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak
WR-NR	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinnal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinnal-Zerda). Outage of 400 kV SSP-Kasor leading to thermal loading of 400 kV SSP - Asoj during low generation at Mundra complex in Western Region
NR-ER	(n-1) contingency of one circuit of 400 kV Allahabad-Pusauli
ER-NR	Outage of one circuit of 400kV Farakka-Malda D/C leads to thermal loading of second circuit.
W3-ER	Outage of one circuit of 400kV MPL-Maithon D/C leads to thermal loading of second circuit.
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. Outage of one circuit of 400kV Parli(PG)-Sholapur(PG) D/C leads to thermal loading of second circuit.
	2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.
ER-NER	(n-1) contingency of one circuit of 400 kV Balipara - Bongagaon D/C and High loading of 220kV BTPS-Agra S/C In case of tripping of Pallatana module 1, TRM will be revised to 50 MW.
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C line
Import of DD & DNH	(n-1) contingency of 400/220kV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	(n-1) contingency of one circuit of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (800 MW SPS setting on each circuit of 400kV Raipur-Wardha)

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 September 2014 to 2nd September 2014	00-17 23-24	8600	800	7800	6811	989				
		17-23	8600		7800		989				
	3rd September 2014 to 5th September 2014	00-17 23-24	7500	800	6700	6811	0				
		17-23	7500		6700		0				
	6th September 2014 to 30th September 2014	00-17 23-24	8300	800	7500	6811	689				
		17-23	8300		7500		689				
NER	1st September 2014 to 3rd September 2014	00-06 23-24	700	50	650	210	440				
		06-17	700		650		440				
		17-18	620		570		210			360	
		18-23	620		570		210			360	
	4th September 2014	00-06 23-24	700	300	400	210	190		Import TRM of NER revised considering revived Pallatana module I.		
		06-17	700		400		210			190	
		17-18	620		320		210			110	
		18-23	620		320		210			110	
	5th September 2014	00-06 23-24	700	300	400	210	190				
		06-17	700		400		210			190	
		17-18	620		320		210			110	
		18-23	620		320		210			110	
	6th September 2014 to 30th September 2014	00-06 23-24	700	300	400	210	190				
		06-17	700		400		210			190	
		17-18	620		320		210			110	
		18-23	620		320		210			110	
	WR										
	SR	1st September 2014 to 30th September 2014	00-06 18-24	4800	750	4050	3862	188			
06-18			4800			4050		3927			123

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 September 2014 to 30th September 2014	00-06	3500	700	2800	944	1856			
		06-17			2800	1009	1791			
		17-18			3600	2900	1009			1891
		18-23				2900	944			1956
		23-24				3500	2800			944
NER	1st September 2014 to 3rd September 2014	00-17 23-24	690	100	590	0	590			
		17-23			660		560			560
		00-07			690		590			590
	4th September 2014	07-16	470	100	370	0	370	-220	TTC revised due to shutdown of 220 kV Misa – Samaguri ckt I	
		16-17			470		370			370
		17-23 23-24			470		370			370
	5th September 2014	00-07	470	100	370	0	370	-220	TTC revised due to shutdown of 220 kV Misa – Samaguri ckt II	
		07-16			470		370			370
		16-17 17-23 23-24			470		370			370
	6th September 2014 to 30th September 2014	00-17 23-24	690	100	590	0	590			
		17-23			660		560			560
	WR									
SR *	1st September 2014 to 30th September 2014	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 one circuit of 400kV Farakka-Malda D/C High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusaali
NER	Import	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
	Export	(n-1) contingency of 400/220 kV 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
SR	Import	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) D/C
		2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.

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Total Transfer Capability for September 2014**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	07-08-2014	Whole Month	STOA Margin revised due change in LTA/ MTOA/ Allocation.	NR-WR
			Revised due to contingency arrangement of one 500 MW Vindhyachal (Unit-12) with 400kV Vindhyachal-Rihand line.	WR-NR
			STOA Margin revised due correction in LTA figure.	NR-ER
			Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations, the meetings on TTC/ATC taken by CTU on 24th and 30th Jul 2014. Any margins on account of less LTA/MTOA would be offered on day ahead basis.	WR-SR/ER-SR
			Revised due to commissioning of 400/220KV 2X315MVA ICT at Kala S/S along with 220kV Kala-Sayali and 220KV Kala-Khadoli lines	Import TTC for DD & DNH
2	28-08-2014	Whole Month	Revised due to change in the Load -Generation balance consideration and addition of new network elements	ER -NER/NER-ER
			Revised due to commissioning of 400kV Tiruvalam-Kalivendapattu DC line, 400kV Kalivendapattu-Pugalur-1 & Tiruvalam 230kV line and Vallur unit-1 planned outage	S1-S2
3	31-08-2014	01-09-2014 to 04-09-2014	Import TRM of NER revised considering the shutdown of Pallatana module 1.	ER-NER
4	31-08-2014	01-09-2014 to 05-09-2014	Revised considering large reduction in generation at APL Mundra and constraints/line loadings in Gujarat Network.	WR-NR
5	02-09-2014	03-09-2014 to 30-09-204	Revised considering the present inter-regional flow pattern and transit flows from ER to NR via WR	ER - NR
6	03-09-2014	04-09-2014	TTC revised due to shutdown of 220 kV Misa – Samaguri ckt I	NER-ER
		05-09-2014	TTC revised due to shutdown of 220 kV Misa – Samaguri ckt II	
		04-09-2014	Import TRM of NER revised considering revived Pallatana module 1.	ER-NER

ASSUMPTIONS IN BASECASE

Month : Sep '14

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				
2	Haryana				
3	Rajasthan				
4	Delhi				
5	Uttar Pradesh				
6	Jammu & Kashmir				
7	Uttarakhand				
8	Himachal Pradesh				
9	Chandigarh				
10	ISGS/PPs				
	Total NR	0	0	0	0
II	EASTERN REGION				
1	West Bengal				
2	Jharkhand				
3	Orissa				
4	Bihar				
5	Damodar Valley Corporation				
6	Sikkim				
7	Bhutan				
8	ISGS/PPs				
	Total ER	0	0	0	0
III	WESTERN REGION				
1	Chattisgarh				
2	Madhya Pradesh				
3	Maharashtra				
4	Gujarat				
5	Goa				
6	Daman and Diu				
7	Dadra and Nagar Haveli				
8	ISGS/PPs				
	Total WR	0	0	0	0

ASSUMPTIONS IN BASECASE

Month : Sep '14

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				
2	Tamil Nadu				
3	Karnataka				
4	Kerala				
5	Pondy				
6	Goa				
7	ISGS/IPPs				
	Total SR	0	0	0	0
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh				
2	Assam				
3	Manipur				
4	Meghalaya				
5	Mizoram				
6	Nagaland				
7	Tripura				
8	ISGS/IPPs				
	Total NER	0	0	0	0
	Total All India	0	0	0	0