Issue Date: 21/10/2014

Issue Time: 1630 hrs

Revision No. 16

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 October 2014 to 31st October 2014	00-24	2500	500	2000	651	1349			
WR-NR	1st October 2014 to 31st October 2014	00-17 23-24	4900	500	4400	4380	20			
		17-23	4900		4400		20			
		00-06 06-17'	1800		1600 800	293 358	1307 442			
NR-ER*	1st October 2014 to 31st October 2014	17-18'	1800	200	1600	358	1242			
	31st October 2014	18-23			900	293	607			
		23-24 00-17	1800		1600	293	1307			
ER-NR	1st October 2014 to 31st October 2014	23-24	2800	300	2500	2431	69			
	5131 October 2014	17-23					69			
	1 (0 (1 - 2014									
W3-ER ^{\$}	1st October 2014 to 31st October 2014	00-24	1600	300	1300	697	603			
ER-W3	1st October 2014 to 31st October 2014	00-24	1000	300	700	874	0			
WR-SR	1st October 2014 to	00-24	2100	750	1350	1350	0			
	31st October 2014 1st October 2014 to									
SR-WR *	31st October 2014	00-24				No	limit is being speified			
		00-06								
	1st October 2014 18	1st October 2014 18-24	2650	0	2650	2585	65			
		06-08' 08-18'	2650 2450		2650 2450	2650 2650	0			
		00-06	2430		2430		-			
	2nd October 2014 to 13th October 2014	18-24	2650	0	2650	2370	280			
		06-18'	2650	0	2650	2435	215			
ER-SR		00-06	2650		2650	2585	65			
	14th October 2014	1130'	2650	0	2650	2650	0			
		113	1130- 1800'	2000	0	2000	2650	0		
		18-24'	2000	0	2000	2585	0			
	15th October 2014 to	00-06 18-24	2000	0	2000	2585	0			
	31st October 2014	06-18'			2000	2650	0			
SR-ER *	1st October 2014 to 31st October 2014	00-24				No	limit is being specified			
		00-06	700		660	210	450			
	1st October 2014 to	23-24		40						
	10th October 2014	06-17' 17-18	700 600	40	660 560	210 210	450 350			
		18-23	600		560	210	350			
		00-08 23-24	700		660	210	450			
ER-NER	11th October 2014	08-17'	350	40	310	210	100			
		17-18'	350		310 560	210	100			
	12th October 2014 to 31st October 2014	18-23 00-06	600			210	350			
		23-24	700		660	210	450			
		06-17' 17-18	700 600	40	660 560	210 210	450 350			
		17-18	600		560	210	350			
	1st October 2014 to	00-17	690	100	590		590			
NER-ER	31st October 2014	23-24 17-23	530	100	430	0	430			
		17-23	550		430		430			

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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 October 2014	00-24	3785	300	3485	2946	539		
	2nd October 2014	00-16	3050	300	2750	2837	0		
	2114 0010001 2011	16-24	3325	300	3025	2837	188		
		0000- 1030	3325	300	3025	2837	188		
	3rd October 2014	1030- 1200'	3620	300	3320	2731	589		
		12-24'	3620	300	3320	2731	589		
		00-09'	3620	300	3320	2731	589		
		09-12'	3325	300	3025	2622	403		
	4th October 2014	12-23'	3050	300	2750	2622	128		
		23-24'	3325	300	3025	2622	403		
		00-17	3325	300	3025	2622	403		
	5th October 2014	17-2315	3050	300	2750	2622	128		
		2315- 2400	3325	300	3025	2622	403		
		00-04	3325	300	3025	2658	367		
	6th October 2014	0400'- 1245	3050	300	2750	2658	92		
		1245'- 2400	3330	300	3030	2767	263		
	7th October 2014	00-17	3330	300	3030	2767	263		
	7111 October 2014	17'-24	3620	300	3320	2767	553		
	8th October 2014	00-24	3325	300	3025	2658	367		
S1-S2	9th October 2014	0000- 0845	3325	300	3025	2658	367		
~~ ~-	941 October 2014	0845- 2400	3050	300	2750	2658	92		
	10th October 2014	00-24	3050	300	2750	2658	92		
		00-11	3050	300	2750	2658	92		
	11th October 2014	11-15'	3620	300	3320	2767	553		
		15-24'	3330	300	3030	2767	263		
	12th October 2014	00-10	3330	300	3030	2767	263		
		10-24'	3050	300	2750	2658	92		
	13th October 2014	00-24	3050	300	2750	2658	92		
	14th October 2014	00-24	3050	300	2750	2873	0		
	15th October 2014	00-08 08'-19	3050 2700	300 300	2750 2400	2837 2837	0		1
	1501 0000001 2014	19-24'	3050	300	2400	2837	0		
	16th October 2014 to 18th October 2014	00-24	3050	300	2750	2837	0		
		00-1230	3050		2750	2837	0		
	19th October 2014	1230-24	3330	300	3030	2946	84		
	20th October 2014	00-24	3510	300	3210	2946	264		
	21st October 2014	00-24	3250	300	2950	2837	113		
	22nd October 2014	00-24	3250	300	2950	3037	0	-285	Revised due to the extension of outage of Vallur Unit-2 and synchronization of Ramagundam unit-6
	23rd October 2014 to 28th October 2014	00-24	2965	300	2665	2928	0		
	29th October 2014 to 30th October 2014	00-24	2965	300	2665	2851	0		Revised due to the synchronization of Ramagundam unit - 6
	31st October 2014	00-24	2965	300	2665	2887	0		

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Revision No. 16

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
Import of Punjab	1st October 2014 to 31st October 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st October 2014 to 31st October 2014	00-24	1200	0	1200	LTA and MT	LTA and MTOA as per ex-pp schedule		
	1st October 2014 to 6th October 2014	00-17 23-24	9400	200	9200	6843	2357		
	our October 2014	17-23	9900		9700		2857		
W3 zone Injection	7th October 2014 to	00-17 23-24	9400		9200		2146		
	31st October 2014	17-23	9900	200	9700	7054	2646		

* 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).

\$ 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) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam

2) S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry

3) 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) KWPCL n) Vandana Vidyut

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 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.

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 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).
NR-ER	(n-1) contingency of 400 kV Sarnath-Pusauli
ER-NR	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor.
W3-ER	(n-1) contingency of one circuit of 400kV MPL-Maithon D/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR &	1. (n-1) contingency of 400kV Parli(PG)-Sholapur(PG) D/C
ER-SR	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.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	(n-1) contingency of one circuit of 400kV Talcher-Rourkela D/C
ER-NER	Palatana unit tripping leading to the thermal overloading of 220 kV BTPS - Salakati D/C
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 Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1-1) contingency of one circuit of 400 kV Raipur-Bhadrawati D/C section
	*Primary constraints

*Primary constraints

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 October 2014 to	00-17 23-24	7700	800	6900	6811	89		
	31st October 2014	17-23	7700	000	6900	0011	89		
	1st October 2014 to	00-06 23-24	700		660	210	450		
	10th October 2014	06-17'	700	40	660	210	450		
	Total October 2011	17-18	600	-	560	210	350		
		18-23	600		560	210	350		
		00-08 23-24	700	40	660	210	450		
NER	11th October 2014	08-17'	350		310	210	100		
		17-18'	350		310	210	100		
		18-23 00-06	600	40	560	210	350		
	12th October 2014 to	23-24	700		660	210	450		
	31st October 2014	06-17'	700		660 560	210	450		
		17-18 18-23	600 600		560	210 210	350 350		
WR		18-25	800		500	210	530		
WK									
	1 - 0 - 1 - 2014	00-06 18-24	4750	750	4000	3935	65		
	1st October 2014	06-08'	4750	750	4000	4000	0		
		08-18'	4550		3800	4000	0		
	2nd October 2014 to 13th October 2014	00-06 18-24	4750	750	4000	3720	280		
	1541 000000 2014	06-18'	4750		4000	3785	215		
SR		00-06	4750		4000	3935	65		
	14th October 2014	0600- 1130'	4750	750	4000	4000	0		
	2.1.1.0000001.2014	1130- 1800	4100		3350	4000	0		
		18-24'	4100		3350	3935	0		
	15th October 2014 to 31st October 2014	00-06 18-24	4100	750	3350	3935	0		
	515t October 2014	06-18'	4100		3350	4000	0		

Simultaneous Export Capability

Corridor	Date	Time	Total	Reliability	Available	Long Term	Margin	Changes	Comments	
		00-06	3500		2800	944	1856			
	1st October 2014 to	06-17'	3500	, l	2800	1009	1791			
NR*	31st October 2014 to 31st October 2014	17-18'	3600	700	2900	1009	1891			
	31st October 2014	18-23	3000		2900	944	1956			
		23-24	3500		2800	944	1856			
	00-17 1st October 2014 to 23-24		00-17	690		590		590		
NER		090	100	390	0	370				
ILIN	31st October 2014	ctober 2014 17-23 53	530	100	430	0	430			
		17-23	550		430		450			
WR										
W K										
SR *	1st October 2014 to	00-24				No limit is be	ing specified			
5R	31st October 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

	Import	(n-1) contingencies of one circuit of 400KV Farakka-Malda D/C & (n-1) contingency of one circuit of 400KV
	import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop
NR		(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	
		(n-1) contingency of 400 kV Sarnath-Pusauli
NER	Import	Palatana unit tripping leading to the thermal overloading of 220 kV BTPS - Salakati D/C
ILIK	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and Hihg loading of 220kV Misa-Samaguri D/C
		1. (n-1) contingency of 400kV Parli(PG)-Sholapur(PG) D/C
SR	Import	 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.

Revision	Date of	Period of	Reason for Revision	Corridor
No	Revision	Revision		Affected
			STOA Margin revised due correction in LTA/ MTOA/ Allocation.	NR-WR/ NR- ER/ W3-ER
			Revised due to commissioning of contingency arrangement of one 500 MW Vindhyachal (Unit-12) with 400kV Vindhyachal-Rihand line.	WR-NR
1	08-08-2014	Whole Month	Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations and 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	26.00.2014	Whole	LTA/MTOA revised by CTU. MTOA from MP to Bescom (KPTCL) = 111 MW, MTOA from KSEB to Chattishgarh = 100 MW. TNEB got 365 MW LTA from WR (Jindal-150MW(earlier), KSK Mahanadi =179 MW, BALCO = 36 MW)	ER-SR
2	2 26-09-2014 mo		Revised due to commissioning of 400kV Tiruvalam- Kalivendapattu DC line, 400kV Kalivendapattu- Pugalur-1 & Tiruvalam 230kV line and LGBR Changes.	S1-S2
	01-10		Revised due to the outage of Vallur Unit-2 and NCTPS St-2 Unit-1	S1-S2
3	30-09-2014	01-10-2014	Revised due to shutdown of 220kV Jeypore-Jayanagar ckt 1 and ckt 2 one at a time	ER-SR
5	50 05 2014	Whole Month	Revised after the reassessment of TTC due to the commissioning of the new elements in NER	ER-NER
		Whole Month	Revised considering the present inter-regional flow pattern and transit flows from ER to NR via WR	ER-NR
4	02-10-2014	02-10-2014 to 31-10-2014	LTA revised till further orders from CERC	ER-SR
5	02-10-2014	02-10-2014 to 03-10-2014	Revised due to the extension of outage of NCTPS Stage 2 Unit -1	S1-S2
		03-10-2014		-
6	03-10-2014	04-10-2014 05-10-2014 to 13-10- 2014	Revised due to outage of both NCTPS Stage 2 Unit -1 and Vallur Unit -3. LTA granted by CTU revised as per orders from CERC LTA granted by CTU revised as per orders from CERC	S1-S2
7	04-10-2014	04-10-2014 to 05-10-2014	Revised due to extended outage of NCTPS Unit-1.	S1-S2
		06-10-2014 to 15-10-2014	Revised due to the extended outage of Vallur Unit -1	

	I		1		
8	06-10-2014	05-10-2014 to	Revised due to the extension of outage of NCTPS Unit -1	S1-S2	
		07-10-2014	Revised due to the outage of Vallur Unit -2		
9	07-10-2014	07-10-2014 to 10-10-2014	Revised due to the outage of NCTPS Stage 2 Unit -1	S1-S2	
9	07-10-2014	07-10-2014	MTOA revised by CTU. MTOA from MP to Bescom (KPTCL) = 111 MW, MTOA from KSEB to Chattishgarh = 100 MW.	W3 zone injection	
10	09-10-2014	09-10-2014 to 10-10-2014	Revised due to the Synchronisation of NCTPS Stage 2 Unit -1	S1-S2	
		11-10-2014	Revised due to S/D of 400 kV Binaguri-Bongaigaon Ckt 1	ER-NER	
11	11-10-2014	11-10-2014 Revised due to outage of Vallur Unit-2 and NCTPS Unit-1		S1-S2	
		12-10-2014	Revised due to outage of Vallur Unit-2		
12	14-10-20 to 14-10-2014 31-10-20		Revised due to breakdown of 400 kV Jeypore -Gazuwaka D/C during Hudhud cyclone	ER-SR	
		15-10-2014	Revised due to shutdown of 400 kV Kalivendapattu - Pugalur ckt 1	S1-S2	
13	15-10-2014	16-10-2014 to 20-10-2014	Revised due to the extended outage of Vallur unit 1	\$1-\$2	
		19-10-2014	Revised due to Vallur Unit-2 Outage on BTL.		
14	19-10-2014	20-10-2014	Revised due to commissioning of 400kV Kalivendapattu- Pugalur-2 & Vallur Unit-2 Outage on BTL	S1-S2	
	21-10-2014 to 31-10-2014		Revised due to commissioning of 400kV Kalivendapattu- Pugalur-2		
15	20-10-2014	21-10-2014	Revised due to the synchronisation of Vallur Unit-2	S1-S2	
		22-10-2014	Revised due to the extension of outage of Vallur Unit-2 and synchronization of Ramagundam unit-6		
16	21-10-2014	23-10-2014 to 31-10- 2014	Revised due to the synchronization of Ramagundam unit - 6	S1-S2	

ASSUMPTIONS IN BASECASE

Month : Oct '14

		Loa	ad	Gener	ation
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
Ι	NORTHERN REGION				
1	Punjab	6873	6618	2298	2471
2	Haryana	6347	4800	1950	1950
3	Rajasthan	8049	7201	4652	4690
4	Delhi	4270	3469	985	985
5	Uttar Pradesh	9996	9406	5793	5830
6	Jammu & Kashmir	1997	1359	564	567
7	Uttarakhand	1496	1497	566	538
8	Himachal Pradesh	1508	1145	625	340
9	Chandigarh	240	167	0	0
10	ISGS/IPPs	0	0	18031	12458
	Total NR	40776	35662	35464	29829
II	EASTERN REGION				
1	West Bengal	6471	4940	4771	3800
2	Jharkhand	937	800	600	340
3	Orissa	3564	3000	3100	2857
4	Bihar	2345	1800	110	110
5	Damodar Valley Corporation	2626	2200	3740	3122
6	Sikkim	84	60	0	0
7	Bhutan	109	108.56	1001	1351
8	ISGS/IPPs	548	440	8060	6815
	Total ER	16684	13348.56	21382	1839
	WESTERN REGION				
1	Chattisgarh	3023	2275	1779	1076
2	Madhya Pradesh	9513	5428	4849	3597
3	Maharashtra	20147	13460	15061	8252
4	Gujarat	11178	7880	10164	6606
5	Goa	440	307	0	0
6	Daman and Diu	276	233	0	0
7	Dadra and Nagar Haveli	624	623	0	0
8	ISGS/IPPs	1278	1214	21701	18099
0	Total WR	46479	31420	53554	37630
			01420	00004	01000

ASSUMPTIONS IN BASECASE

Month : Oct '14

		Loa	ad	Gener	ation
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	5527	5017	3532	3032
2	Telangana	5568	5054	3434	1920
3	Tamil Nadu	10826	9182	6586	5424
4	Karnataka	7571	5677	6003	4075
5	Kerala	2943	1826	1581	601
6	Pondy	287	199	0	0
7	Goa	68	68	0	0
8	ISGS/IPPs	74	74	10977	10836
	Total SR	32864	27097	32113	25888
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	117	47	0	0
2	Assam	929	752	254	227
3	Manipur	117	84	0	0
4	Meghalaya	335	201	154	87
5	Mizoram	77	46	0	3
6	Nagaland	104	84	24	21
7	Tripura	278	202	109	108
8	ISGS/IPPs	3	3	1301	918
	Total NER	1960	1418.99	1842	1364
	Total All India	420702	400047	444255	442400
	TULAI AII IIIUIA	138763	108947	144355	113106