

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

Issue Date: 26/09/2014

Issue Time: 1430 hrs

Revision No. 21

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			
	6th September 2014 to 12th September 2014	00-17	4100	500	3600	4380	0			
		23-24	4100		3600		0			
	13th September 2014 to 22nd September 2014	00-17	4900	500	4400	4380	20			
		23-24	4900		4400		20			
	23th September 2014	00-09	4900	500	4400	4380	20			
		09-17'	4200		3700		0			
		17-23	4200		3700		0			
		23-24	4200		3700		0			
	24th September 2014 to 30th September 2014	00-17	4900	500	4400	4380	20			
		23-24	4900		4400		20			
NR-ER*	1st September 2014 to 30th September 2014	00-06	1000	200	800	293	507			
		06-17'			800	358	442			
		17-18'	1100		900	358	542			
		18-23			900	293	607			
		23-24	1000		800	293	507			
		ER-NR	1st September 2014 to 2nd September 2014		00-17	4500	300			4200
23-24	1769									
3rd September 2014 to 30th September 2014	00-17		3400	300	3100	2431	669			
	23-24						669			
17-23	669									
W3-ER <sup>§</sup>	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 26th September 2014	00-06	2700	0	2700	2512	188			
		18-24					2577			123
	27th September 2014	00-06	2700	0	2700	2512	188	-350	Revised due to shutdown of 400 kV Anugul-Bolangir	
		18-24					2350			0
		08-18'					2700			2700
	28th 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.							

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ER-NER	1st September 2014 to 3rd September 2014	00-06 23-24	700	50	650	210	440		
		06-17'	700		650	210	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		
		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 8th 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		
	9th September 2014	00-10 23-24	700	300	400	210	190		
		10-11'	690		390	210	180		
		11-17'	700		400	210	190		
		17-18	620		320	210	110		
		18-23	620		320	210	110		
	10th 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			
NER-ER	1st September 2014 to 3rd September 2014	00-17 23-24	690	100	590	0	590		
		17-23	660		560		560		
	4th September 2014	00-07'	690	100	590	0	590		
		07-16'	470		370		370		
		16-17 23-24	690		590		590		
		17-23	660		560		0	560	
	5th September 2014	00-07'	690	100	590	0	590		
		07-16'	470		370		370		
		16-17 17-23 23-24	470		370		370		
	6th September 2014 to 8th September 2014	00-17 23-24	690	100	590	0	590		
		17-23	660		560		560		
	9th September 2014	00-10 11-17 23-24	690	100	590	0	590		
		10-11'	660		560		560		
		17-23	660		560		560		
	10th September 2014 to 24th September 2014	00-17 23-24	690	100	590	0	590		
		17-23	660		560		560		
	25th September 2014 to 30th September 2014	00-17 23-24	810	100	710	0	710		
		17-23	730		630		630		

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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 12th September 2014	00-24				2969	0		
	13th September 2014	0000-1830	3075		2775	2791	0		
		1830-2400	3320		3020	2791	229		
	14th September 2014	00-09	3320		3020	2791	229		
		09-18'	3050		2750		0		
		18-24'	3320		3020		229		
	15th September 2014	00-12	3075		2775	2590	185		
		12-24'	3075		2775	2590	185		
	16th September 2014 to 18th September 2014	00-24	3075		2775	2590	185		
	19th September 2014 to 20th September 2014	00-24	3075		2775	2747	28		
	21st September 2014	000-830	3075		2775	2747	28		
		0830-1600	2825		2525	2747	0		
		1600-1800	3080		2780	2747	33		
		1800-2400	3320		3020	2747	273		
	22nd September 2014 to 23rd September 2014	00-24	3320		3020	2747	273		
	24th September 2014	00-12	3320		3020	2747	273		
		12-24'	3075		2775	2824	0		
	25th September 2014	00-24	3075		2775	2824	0		
26th September 2014	00-24	3075	3075	2875	0				
27th September 2014 to 30th September 2014	00-24	2700	2400	2875	0				

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<b>Import of Punjab</b>	1st September 2014 to 30th September 2014	00-24	5700	300	5400	3790	1610		
<b>Import TTC for DD &amp; DNH</b>	1st September 2014 to 30th September 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection</b>	1st September 2014 to 17th September 2014	00-17	9000	200	8800	6843	1957		
		23-24			9300		2457		
	18th September 2014 to 19th September 2014	00-06	9000	200	8800	6843	1957		
		06-17'	8600		8400		1557		
		17-18'	9100		8900		2057		
		18-23'	9500		9300		2457		
		23-24	9000		8800		1957		
	20th September 2014 to 21st September 2014	00-17	9000	200	8800	6843	1957		
		23-24			9300		2457		
	22nd September 2014	00-07	9000	200	8800	6843	1957		
		07-17	8600		8400		1557		
		23-24			8900		2057		
	23rd September 2014	00-07	9000	200	8800	6843	1957		
		07-17	8600		8400		1557		
		23-24			8900		2057		
	24th September 2014 to 26th September 2014	00-17	9000	200	8800	6843	1957		
		23-24			9300		2457		
	27th September 2014	00-08	9000	200	8800	6843	1957		
		08-17'	8000		7800		957	-1000	Revised due to shutdown of 400 kV Raipur-Wardha ckt 1
		17-23	8500		8300		1457		
		23-24	8000		7800		957		
	28th September 2014 to 30th September 2014	00-17	9000	200	8800	6843	1957		
		23-24			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).

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- 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) KWPCCL, 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 be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

\$ 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 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). 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 – Bongaigaon D/C and High loading of 220kV BTPS-Agia 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-1-1) contingency of one circuit of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (850 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	
<b>ER</b>										
<b>NR</b>	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 12th September 2014	00-17 23-24	7500	800	6700	6811	0			
		17-23	7500		6700		0			
	13th September 2014 to 22nd September 2014	00-17 23-24	8300	800	7500	6811	689			
		17-23	8300		7500		689			
	23th September 2014	00-09	8300	800	7500	6811	689			
		09-17	7600		6800		0			
		17-23	7600		6800		0			
		23-24	7600		6800		0			
	24th September 2014 to 30th September 2014	00-17 23-24	8300	800	7500	6811	689			
		17-23	8300		7500		689			
<b>NER</b>	1st September 2014 to 3rd September 2014	00-06 23-24	700	50	650	210	440			
		06-17'	700		650		210			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			
		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 8th 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
	9th September 2014	00-10 23-24	700	300	400	210	190			
		10-11'	690		390		210			180
		11-17'	700		400		210			190
		17-18	620		320		210			110
	10th 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 26th September 2014	00-06 18-24	4800	750	4050	3862	188		Revised due to shutdown of 400 kV Anugul-Bolangir
		06-18'	4800		4050	3927	123		
	27th September 2014	00-06 18-24	4800	750	4050	3862	188		
		08-18'	4450		3700	3927	0	-350	
		06-08'	4800		4050	3927	123		
	28th 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	1856		
NER	1st September 2014 to 3rd September 2014	00-17 23-24	690	100	590	0	590		
		17-23	660		560		560		
	4th September 2014	00-07'	690	100	590	0	590		
		07-16'	470		370		370		
		16-17 23-24	690		590		590		
		17-23	660		560		560		
	5th September 2014	00-07'	690	100	590	0	590		
		07-16'	470		370		370		
		16-17 17-23 23-24	470		370		370		
		23-24	470		370		370		
	6th September 2014 to 8th September 2014	00-17 23-24	690	100	590	0	590		
		17-23	660		560		560		
	9th September 2014	00-10 11-17 23-24	690	100	590	0	590		
		10-11'	660		560		560		
		17-23	660		560		560		
	10th September 2014 to 24th September 2014	00-17 23-24	690	100	590	0	590		
		17-23	660		560		560		
	25th September 2014 to 30th September 2014	00-17 23-24	810	100	710	0	710		
17-23		730	630		630				
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

<b>NR</b>	<b>Import</b>	(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).
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
<b>NER</b>	<b>Import</b>	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
<b>SR</b>	<b>Import</b>	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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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 30-09-2014	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
7	04-09-2014	04-09-2014	TTC revised on non availment of shutdown plan of 220 kV Misa – Samaguri ckt I	NER-ER
8	05-09-2014	06-09-2014 to 30-09-2014	Revised considering large reduction in generation at APL Mundra and constraints/line loadings in Gujarat Network.	WR-NR
9	08-09-2014	09-09-2014	Revised due to shutdown of 400/220 kV, 315 MVA ICT at Balipara	ER-NER/ NER-ER
10	12-09-2014	13-09-2014 to 30-09-2014	Revised considering increase in generation at APL Mundra and relieved constraints/line loadings in Gujarat Network	WR-NR
11	13-09-2014	14-09-2014	Revised due to shutdown of 400kV Pugalur-Kalivendapattu-1 line	S1-S2
		15/09/14 - 30/09/14	STOA Margin revised due to approved unit outage changes.	

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12	13-09-2014	13-09-2014 to 15-09-2014	Revised due to outage NCTPS unit-1	S1-S2
13	14-09-2014	15-09-2014	Revised due to synchronization of NCTPS Unit-1	S1-S2
14	17-09-2014	18-09-2014 to 19-09-2014	Revised due to shutdown of 400 kV Bhilai-Koradi	W3 Zone injection
15	19-09-2014	21-09-2014	Revised due to shutdown of 400 kV Kolar - Somnahally S/C	S1-S2
16	21-09-2014	22-09-2014	Revised due to shutdown of 400 kV Raipur-Bhadrawati Ckt-2	W3 Zone injection
17	21-09-2014	21/09/2014 - 24/09/2014	Revised due to tripping of NCTPS STG 2 UNIT-2	S1-S2
18	22-09-2014	23-09-2014	Revised due to shutdown of 400 kV Raipur-Bhadrawati Ckt-3	W3 Zone injection
			Revised due to shutdown of 765 kV Gwalior Bus 2	WR -NR
19	24-09-2014	25/09/2014 - 30/09/2014	Revised due to increase of generation in NER.	NER-ER
20	26-09-2014	27/09/2014 - 30/09/2014	Revised due to low wind generation in Tamilnadu. 500MW wind generation is considered for assessment of TTC.	S1-S2
21	26-09-2014	27-09-2014	Revised due to shutdown of 400 kV Anugul-Bolangir	ER-SR
			Revised due to shutdown of 400 kV Raipur-Wardha ckt 1	W3 Zone injection

## 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)
<b>I</b>	<b>NORTHERN REGION</b>				
1	Punjab	7945	6618	3054	2374
2	Haryana	7252	6583	2595	2595
3	Rajasthan	6964	7023	5205	5204
4	Delhi	4535	4116	1093	1093
5	Uttar Pradesh	11515	10652	5912	5863
6	Jammu & Kashmir	1978	1795	570	564
7	Uttarakhand	1610	1462	809	657
8	Himachal Pradesh	1391	1111	831	729
9	Chandigarh	269	172	0	0
10	ISGS/PPs			18701	15259
	<b>Total NR</b>	<b>43459</b>	<b>39532</b>	<b>38770</b>	<b>34338</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6748	5078	4887	3888
2	Jharkhand	1075	853	450	370
3	Orissa	3682	2911	2948	2811
4	Bihar	2289	1807	100	100
5	Damodar Valley Corporation	2389	2108	3727	3273
6	Sikkim	85	85	0	0
7	Bhutan	109	109	1360	1360
8	ISGS/PPs	108	108	7095	6224
	<b>Total ER</b>	<b>16485</b>	<b>13059</b>	<b>20567</b>	<b>18026</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	3185	2612	2009	1332
2	Madhya Pradesh	9396	5107	4992	3649
3	Maharashtra	18657	13878	13591	8629
4	Gujarat	10298	7678	9494	5436
5	Goa	409	340	0	0
6	Daman and Diu	256	231	0	0
7	Dadra and Nagar Haveli	596	617	0	0
8	ISGS/PPs	1239	1214	19974	17682
	<b>Total WR</b>	<b>44036</b>	<b>31677</b>	<b>50060</b>	<b>36728</b>

## 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)
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	11507	10914	7764	7454
2	Tamil Nadu	10446	8855	6125	4525
3	Karnataka	7445	5393	4657	2762
4	Kerala	2992	1863	1658	700
5	Pondy	314	259	0	0
6	Goa	68	68	0	0
7	ISGS/IPPs	0	0	12261	11302
	<b>Total SR</b>	<b>32772</b>	<b>27352</b>	<b>32465</b>	<b>26743</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Arunachal Pradesh	90	63	0	0
2	Assam	889	782	240	230
3	Manipur	110	78	0	0
4	Meghalaya	259	183	150	90
5	Mizoram	75	53	8	4
6	Nagaland	94	77	16	12
7	Tripura	249	126	110	110
8	ISGS/IPPs	3	3	1340	992
	<b>Total NER</b>	<b>1769</b>	<b>1365</b>	<b>1864</b>	<b>1438</b>
	<b>Total All India</b>	<b>138521</b>	<b>112985</b>	<b>143726</b>	<b>117273</b>