

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

Issue Date: 13/05/2014

Issue Time: 1230 hrs

Revision No. 19

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 2014 to 31st May 2014	00-24	2500	500	2000	297	1703		
WR-NR	1st May 2014 to 3rd May 2014	00-17	4200	500	3700	3992	0		
		17-23	4200		3700		0		
	4th May 2014	00-09	4200	500	3700	3992	0		
		09'-24	3800		3300		0		
	5th May 2014	00-05	4200	500	3700	3992	0		
		05'-24	4200		3700		0		
	6th May 2014	00-05	4200	500	3700	3992	0		
		05'-24	3800		3300		0		
	7th May 2014	00-05	4200	500	3700	3992	0		
		05'-24	3800		3300		0		
	8th May 2014	00-05	4200	500	3700	3992	0		
		05'-24	4200		3700		0		
	9th May 2014	00-05	4200	500	3700	3992	0		
		05'-24	4200		3700		0		
	10th May 2014	00-05	4200	500	3700	3992	0		
		05-24'	3900		3400		0		
	11th May 2014	00-05	4200	500	3700	3992	0		
		05-24'	3900		3400		0		
12th May 2014 to 31st May 2014	00-17	4200	500	3700	3992	0			
	17-23	4200		3700		0			
NR-ER*	1st August 2014 to 31st August 2014	00-06	1000	200	800	293	507		
		06-17'			800	423	377		
		17-18'	1100		900	423	477		
		18-23			900	293	607		
		23-24	1000		800	293	507		
ER-NR^s	1st May 2014	00-17	3800	300	3500	2431	1069		
		17-23					1069		
		23-24					1069		
	2nd May 2014	00-07	3800		3500	2431	1069		
		07'-24	3500		3200	2431	769		
	3rd May 2014 to 31st May 2014	00-17	3800		300	3500	2431		
17-23		1069							
W3-ER	1st May 2014	00-07	1800	300	1500	551	949		
		07'-24	1500	300	1200	551	649		
	2nd May 2014	00-07	1800	300	1500	551	949		
		07'-24	1800	300	1500	551	949		

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W3-ER	3rd May 2014 to 4th May 2014	00-07	1800	300	1500	551	949			
		07'-24	1500	300	1200	551	649			
	5th May 2014 to 7th May 2014	00-24	1800	300	1500	551	949			
	8th May 2014	00-08	1800	300	1500	551	949			
		08-24'	1400		1100		549			
	9th May 2014 to 10th May 2014	00-24	1800	300	1500	551	949			
	11th May 2014	00-08	1800	300	1500	551	949			
08-24'		1400	1100		549					
12th May 2014 to 10th May 2014	00-24	1800	300	1500	551	949				
ER-W3	1st May 2014 to 31st May 2014	00-24	1000	300	700	874	0			
WR-SR	1st May 2014 to 31st May 2014	00-24	1000	0	1000	1000	0			
SR-WR *	1st May 2014 to 31st May 2014	00-24	1000	0	1000	0	1000			
ER-SR	1st May 2014 to 2nd May 2014	00-06	750	0	750	593	157			
		18-24				638	112			
	3rd May 2014	00-06	750	0	750	593	157			
		18-24	450		450	638	0			
		06-17'	750		750	638	112			
	4th May 2014 to 05th May 2014	00-06	750	0	750	593	157			
		18-24	638		112					
	06th May 2014	00-06	750	0	750	593	157			
		06-07'	750		750	638	112			
		07-18'	450		450	638	0			
		18-24	450		450	593	0			
	07th May 2014 to 31st May 2014	00-06	750	0	750	593	157			
18-24		638	112							
SR-ER *	1st May 2014 to 31st May 2014	00-17	1100	0	1100	197	903			
		23-24			1100	903				
ER-NER ²	1st May 2014 to 7th May 2014	00-06	720	50	670	205	465			
		23-24			670	210	460			
		06-17'			720	590	210	380		
		17-18			640	590	205	385		
	8th May 2014 to 9th May 2014	00-06	720	50	670	205	465			
		23-24	720		670	210	460			
		06-10'	570		520	210	310			
		10-17'	640		590	210	380			
17-18	640	590	205	385						
18-23	640	590	205	385						

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ER-NER ²	10th May 2014 to 12th May 2014	00-06 23-24	720	50	670	205	465			
		06-17'	720		670	210	460			
		17-18	640		590	210	380			
		18-23	640		590	205	385			
	13th May 2014 to 15th May 2014	00-06 23-24	720	50	670	205	465			
		06-07'	720		670	210	460			
		07-17'	650		600	210	390			
		17-18	640		590	210	380			
	16th May 2014 to 31st May 2014	00-06 23-24	720	50	670	205	465			
		06-17'	720		670	210	460			
		17-18	640		590	210	380			
		18-23	640		590	205	385			
NER-ER	1st May 2014 to 7th May 2014	00-17 23-24	530	100	430	0	430			
		17-23	550		450		450			
		00-10 23-24	530		100		430			0
	10-17'	250	150	150						
	17-23	550	450	450						
	10th May 2014 to 12th May 2014	00-17 23-24	530	100	430	0	430			
		17-23	550		450		450			
	13th May 2014 to 15th May 2014	00-07 23-24	530	100	430	0	430			
		07-17'	440		340		340			
		17-23	550		450		450			
	16th May 2014 to 31st May 2014	00-17 23-24	530	100	430	0	430			
		17-23	550		450		450			
	S1-S2	1st May 2014 to 05th May 2014	00-24	5650	400	5250	5150	100		
		06th May 2014 to 07th May 2014	00-07	5650	400	5250	5150	100		
			07-24'	5100	400	4700	5150	0		
		08th May 2014 to 09th May 2014	00-24	5650	400	5250	5150	100		
10th May 2014		00-0730 19-24	5650	400	5250	5150	100			
		0730-19	5150		4750		0			
11th May 2014		00-06 19-24	5650	400	5250	5150	100			
		06-19'	5100		4700		0			
12th May 2014		00-09 14-24	5650	400	5250	5150	100			
		09-14'	5100		4700		0			
13th May 2014		00-24	5650	400	5250	5150	100			
14th May 2014 to 31st May 2014		00-24	5650	400	5250	5000	250		Margin revised due to Annual maintenance of Ramagundam Unit-5	

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Import of Punjab	1st May 2014 to 10th May 2014	00-24	5600	300	5300	3800	1500		
	11th May 2014 to 31st May 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st May 2014 to 31st May 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st May 2014	00-07	9000	200	8800	6901	1899		
		07-17	8500		8300		1399		
		23-24	9000		8800		1899		
	2nd May 2014	00-17	9000	200	8800	6901	1899		
		23-24	9500		9300		2399		
	3rd May 2014	00-08	9000	200	8800	6901	1899		
		08-17	8600		8400		1499		
		23-24	9100		8900		1999		
	4th May 2014	00-07	9000	200	8800	6901	1899		
		17-23	9000		8800		1899		
		07-17	8500		8300		1399		
	5th May 2014 to 31st May 2014	00-17	9000	200	8800	6901	1899		
		23-24	9500		9300		2399		

* 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 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) KWPL, n) Vandana Vidyut

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 commissioned the LTA/MTOA utilized would be 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.

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2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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 high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda.
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterlite
WR-SR & ER-SR	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO) 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	
ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff (during Off-Peak Hours) (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C (during Peak Hours)
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
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 400 kV Raipur-Wardha-Parli Section

*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 May 2014	00-17 23-24	8000	800	7200	6423	777		
		17-23	8000		7200		777		
	2nd May 2014	00-07'	8000	800	7200	6423	777		
		07'-24	7700		6900		477		
	3rd May 2014	00-17 23-24	8000	800	7200	6423	777		
		17-23	8000		7200		777		
	4th May 2014	00-09	8000	800	7200	6423	777		
		09'-24	7600		6800		377		
	5th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	8000		7200		777		
	6th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	7600		6800		377		
	7th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	7600		6800		377		
	8th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	8000		7200		777		
	09th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	8000		7200		777		
	10th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	7700		6900		477		
	11th May 2014	00-05	8000	800	7200	6423	777		
		05'-24	7700		6900		477		
	12th May 2014 to 31st May 2014	00-17 23-24	8000	800	7200	6423	777		
		17-23	8000		7200		777		
NER²	1st May 2014 to 7th May 2014	00-06 23-24	720	50	670	205	465		
		06-17'	720		670	210	460		
		17-18	640		590	210	380		
		18-23	640		590	205	385		
	8th May 2014 to 9th May 2014	00-06 23-24	720	50	670	205	465		
		06-10'	720		670	210	460		
		10-17'	570		520	210	310		
		17-18	640		590	210	380		
	10th May 2014 to 12th May 2014	00-06 23-24	720	50	670	205	465		
		06-17'	720		670	210	460		
		17-18	640		590	210	380		
		18-23	640		590	205	385		

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
NER ²	13th May 2014 to 15th May 2014	00-06 23-24	720	50	670	205	465		
		06-07'	720		670	210	460		
		07-17'	650		600	210	390		
		17-18	640		590	210	380		
		18-23	640		590	205	385		
	16th May 2014 to 31st May 2014	00-06 23-24	720	50	670	205	465		
		06-17'	720		670	210	460		
		17-18	640		590	210	380		
18-23		640	590		205	385			
WR									
SR	1st May 2014 to 2nd May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-18'	1750		1750	1638	112		
	3rd May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-17'	1450		1450	1638	0		
		17-18	1750		1750	1638	112		
	4th May 2014 to 5th May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-18'	1750		1750	1638	112		
	6th May 2014	00-06 06-07'	1750	0	1750	1593	157		
		06-07'	1750		1750	1638	112		
		07-18'	1450		1450	1638	0		
		18-24'	1450		1450	1593	0		
	7th May 2014 to 31st May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-18'	1750		1750	1638	112		

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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 2014 to 31st May 2014	00-06	3500	700	2800	590	2210					
		06-17'	3500		2800	720	2080					
		17-18	3600		2900	720	2180					
		18-23	3600		2900	590	2310					
		23-24	3500		2800	590	2210					
NER	1st May 2014 to 7th May 2014	00-17	530	100	430	0	430					
		23-24								17-23	450	450
		550									450	
	8th May 2014 to 9th May 2014	00-10	530	100	430	0	430					
		23-24								10-17'	150	150
		250									450	
	17-23	550	450	450								
	10th May 2014 to 12th May 2014	00-17	530	100	430	0	430					
		23-24								17-23	450	450
		550									450	
	13th May 2014 to 15th May 2014	00-07	530	100	430	0	430					
		23-24								07-17'	340	340
		440									450	
	17-23	550	450	450								
	16th May 2014 to 31st May 2014	00-17	530	100	430	0	430					
23-24		17-23								450	450	
550										450		
WR												
SR*	1st May 2014 to 31st May 2014	00-17	2100	0	2100	197	1903					
		23-24								17-23	2100	1903
		2100									1903	

* 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 400 kV Kahalgaon-Biharshariff High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows 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-Pusauli
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff (during Off-Peak hours) and (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C (during Peak Hours)
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	Import	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO). 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
	Export	

*Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	19-02-2014	Whole Month	Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2	ER-NR/ WR-NR
			Revised considering operational experience and margins on HVDC	ER-SR/ WR SR
			Review of flow pattern due to network topology change and Load Generation Balance.	W3 Zone Injection
2	05-03-2014	Whole Month	Re-Routing of transactions on West-East-North Corridor discontinued on account of Inter-Regional Loop flows leading to physical congestion on WR-NR.	WR-NR/ ER-NR
3	13-03-2014	Whole Month	Margin revised due to withdrawal/cancellation of 150MW MTOA from Corporate Power Limited	ER-SR
4	25-03-2014	Whole Month	Margin revised due to correction in LTA/MTOA figure.	NR-WR
5	29-03-2014	Whole Month	Margin revised due to grant of 150 MW LTA towards SR from NEW grid	ER-SR
6	29-04-2014	Whole Month	Margin revised due to Non-Commissioning of Kudankulam U-1,Vallur U-3 unit and NLC-2 EXP units and Allocation of 150 MW to TANGEDCO.	S1-S2
			Margin revised due to incorporation of existing Solar Power Allocation to SR, ER, NER constituents between 6 hrs -18 hrs in LTA figures and allocation data available on RPCs RTA/REA.	NR-ER/ ER- SR
			Margin revised due to Commissioning of Sasan Unit-4.	WR-NR
			Margin revised considering the LTA/MTOA allocation available in RPCs RTA/REA and due to incorporation of existing Solar Power Allocation to Assam.	ER-NER
			Margin revised considering the LTA/MTOA allocation available in RPCs RTA/REA.	NR-WR/ ER-NR
			Margin revised considering the LTA/MTOA allocation available on RPCs RTA/REA and Re-routing of existing MTOA granted by CTU.	W3-ER
7	30-04-2014	01-05-2014	Revised due to shutdown of 400kV Raipur-Wardha Circuit-2.	W3 Zone Injection
		01/05/2014- 02/05/2014	Revised due to shutdown of 400 kV Rourkela-Sundergarh-Raigarh Ckt-II	W3-ER
8	01-05-2014	02-05-2014	Revised due to shutdown of 400 kV Biharshariff-Banka Ckt-II	ER-NR
			Revised due to 400 kV Rourkela-Sundergarh-Raigarh Ckt-II shutdown not being availed	W3-ER
9	02-05-2014	03-05-2014	Revised due to shutdown of 400 kV Raipur-Bhadrawati-II	W3 injection
			Revised due to shutdown of 400 kV JITPL-Anugul-Meramundli	ER-SR
		03/05/2014 to 04/05/2014	Revised due to shutdown of 400 kV Rourkela-Sundergarh-Raigarh Ckt-II	W3-ER

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10	03-05-2014	04-05-2014	Revised due to shutdown of 400 kV Raipur-Wardha-I	W3 injection
			Revised due to shutdown of 765 kV Bus-I of 765/400 kV Agra Substation	WR-NR
11	04-05-2014	05-05-2014	Revised due to shutdown of 400 kV Bhiwani (PG) - Mohindergarh ckt-1	WR-NR
		06-05-2014	Revised due to shutdown of 400 kV Bhiwani (PG) - Mohindergarh ckt-2	
		07-05-2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh ckt-1	
		08-05-2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh ckt-2	
12	05-05-2014	05/05/2014 to 09/05/2014	Revised due to rescheduling of 400 kV Bhiwani (PG) - Mohindergarh ckt-1, ckt-2 and 400 kV Dhanonda - Mohindergarh ckt-1 and ckt-2 shutdown	WR-NR
		06/05/2014 to 07/05/2014	Revised due to shutdown of 400 kV Hosur-Salem Ckt 2	S1-S2
13	05-05-2014	06-05-2014	Revised due to emergency shutdown of 400 kV JITPL-Anugul and 400 kV JITPL-Bolangir	ER-SR
14	07-05-2014	08-05-2014	Revised due to re-scheduling of 400 kV Dhanonda - Mohindergarh-I shutdown	WR-NR
		09-05-2014	Revised due to re-scheduling of 400 kV Dhanonda - Mohindergarh-II shutdown	WR-NR
		08/05/2014 - 09/05/2014	Revised due to shut down of 220 kV Sarusajai- Samaguri Ckt- I & II	ER-NER/ NER-ER
		08-05-2014	Revised due to shutdown of 400kV Rourkela-SEL-I & 400kV Rourkela-Jharsuguda-I	W3-ER
15	09-05-2014	10-05-2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh-I.	WR-NR
		11-05-2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh-I.	WR-NR
		10-05-2014	Revised due to shutdown of 400 kV SVCHATHRAM-PONDY S/C.	S1-S2
16	10-05-2014	11-05-2014	Revised due to shutdown of 400kV Hosur-Salem-1	S1-S2
		12-05-2014	Revised due to shutdown of 400kV Hosur-Salem-2	S1-S2
		11/05/2014 - 31/05/2014	Revised due to augmentation/modifications in Punjab control area network	Import of Punjab
17	10-05-2014	11-05-2014	Revised due to shutdown of 400 kV Rourkela-Sterlite Ckt 2 and 400 kV Rourkela-Jharsuguda Ckt 2	W3-ER
18	12-05-2014	13/05/2014 - 15/05/2014	Revised due to Shut down of 220 kV BTPS- Agia S/C.	ER-NER/ NER-ER
19	13-05-2014	14/05/2014 - 31/05/2015	Margin revised due to Annual maintenance of Ramagundam Unit-5	S1-S2

ASSUMPTIONS IN BASECASE

Month : May '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	5971	5191	2258	2229
2	Haryana	5885	5116	3178	3178
3	Rajasthan	7955	6916	5132	5116
4	Delhi	4102	3566	1296	1296
5	Uttar Pradesh	11500	10090	6358	6354
6	Jammu & Kashmir	2133	1854	387	420
7	Uttarakhand	1628	1415	461	416
8	Himachal Pradesh	1413	1228	469	385
9	Chandigarh	238	192	0	0
10	ISGS/IPPs			18314	13943
	Total NR	40825	35568	37853	33337
II	EASTERN REGION				
1	West Bengal	4920	4680	4920	3644
2	Jharkhand	1070	850	580	420
3	Orissa	3745	2780	3180	2160
4	Bihar	1770	1500	0	0
5	Damodar Valley Corporation	2670	2350	3752	3336
6	Sikkim	96	32	0	0
7	Bhutan	108	110	494	484
8	ISGS/IPPs	245	250	7253	7344
	Total ER	14624	12552	20179	17388
III	WESTERN REGION				
1	Chattisgarh	3400	2700	1629	1629
2	Madhya Pradesh	7728	5521	3632	3013
3	Maharashtra	16790	15516	13037	11828
4	Gujarat	12301	11245	11178	9102
5	Goa	367	257		
6	Daman and Diu	264	245		
7	Dadra and Nagar Haveli	590	585		
8	ISGS/IPPs	1258	1240	17391	16068
	Total WR	42698	37309	46867	41640

IV	SOUTHERN REGION				
1	Andhra Pradesh	11603	10209	7716	6690
2	Tamil Nadu	11969	10938	7142	6612
3	Karnataka	8415	6979	6440	4970
4	Kerala	3314	2552	1724	893
5	Pondy	329	276		
6	Goa	84	83		
7	ISGS/IPPs			10873	10054
	Total SR	35714	31037	33895	29219
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	120	84	0	0
2	Assam	1350	980	240	200
3	Manipur	120	84	0	0
4	Meghalaya	310	217	60	55
5	Mizoram	75	52.5	4	4
6	Nagaland	120	84	12	12
7	Tripura	250	130	110	110
8	ISGS/IPPs			1188	938
	Total NER	2345	1631.5	1614	1319
	Total All India	136206	118098	140408	122903