

National Load Despatch Centre
Total Transfer Capability for January 2016

Issue Date: 28/01/2016

Issue Time: 1330 hrs

Revision No. 24

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 Jan 2016 to 31st Jan 2016	00-24	2500	500	2000	706	1294		
WR-NR*	1st Jan 2016 to 4th Jan 2016	00-24	7700	500	7200	6103	1097		
	5th Jan 2016 to 6th Jan 2016	00-09	7700	500	7200	6103	1097		
		09-24'	7200		6700		597		
	7th Jan 2016 to 14th Jan 2016	00-24	7700	500	7200	6103	1097		
	15th Jan 2016	00-09	6200	500	5700	6103	0		
		09-22'	7700		7200		1097		
		22-24'	6200		5700		0		
	16th Jan 2016 to 17th Jan 2016	00-09	4200	500	3700	6103	0		
		09-22'	4200		3700		0		
		22-24'	4200		3700		0		
	18th Jan 2016 to 21st Jan 2016	00-09	4200	500	3700	6103	0		
		09-22'	4200		3700		0		
		22-24'	4200		3700		0		
	22nd Jan 2016	00-09	4200	500	3700	6103	0		
		09-22'	4200		3700		0		
		22-24'	4200		3700		0		
	23rd Jan 2016	00-09	6200	500	5700	6103	0		
		09-22'	7700		7200		1097		
		22-24'	6200		5700		0		
	24th Jan 2016	00-08	6200	500	5700	6103	0		
		08-09	4200		3700		0		
		09-22'	4200		3700		0		
		22-24'	4200		3700		0		
	25th Jan 2016	00-09	6200	500	5700	6103	0		
		09-22'	6400		5900		-203		
		22-24'	6200		5700		0		
	26th Jan 2016	00-09	6200	500	5700	6103	0		
		09-22'	7700		7200		1097		
		22-24'	6200		5700		0		
	27th Jan 2016 to 28th Jan 2016	00-08	7000	500	6500	6103	397		
08-09'		6500	6000		0				
09-22'		6500	6000		0				
22-24'		7000	6500		397				
29th Jan 2016	00-08	7000	500	6500	6103	397	800	Revised considering shutdown of one circuit of 765 kV Gwalior - Phagi D/C and the present inter regional flow pattern	
	08-09'	6500		6000		0	300		
	09-22'	6500		6000		0	-1200		
	22-24'	7000		6500		397	800		
30th Jan 2016 to 31st Jan 2016	00-09	6200	500	5700	6103	0			
	09-22'	7700		7200		1097			
	22-24'	6200		5700		0			
NR-ER*	1st Jan 2016 to 31st Jan 2016	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR*	1st Jan 2016 to 31st Jan 2016	00-24	3800	300	3500	2431	1069		
W3-ER^s	1st Jan 2016 to 31st Jan 2016	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.						
ER-W3	1st Jan 2016 to 31st Jan 2016	00-24	No limit is being specified.						

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WR-SR	1st Jan 2016 to 2nd Jan 2016	00-24	3500	750	2750	3250	0		
	3rd Jan 2016	00-24	1000	500	500	3250	0		
	4th Jan 2016	00-24	1000	500	500	3250	0		
	5th Jan 2016	00-24	1000	500	500	3250	0		
	6th Jan 2016	00-24	1000	500	500	3250	0		
	7th Jan 2016	00-24	1000	500	500	3250	0		
	8th Jan 2016	00-24	3500	750	2750	3250	0		
	9th Jan 2016	00-01	3500	750	2750	3250	0		
		01-06	4000	750	3250	3250	0		
		06-24	3500	750	2750	3250	0		
10th Jan 2016 to 12th Jan 2016	00-24	4000	750	3250	3250	0			
13th Jan 2016 to 31st Jan 2016	00-24	4000	750	3250	3250	0			
SR-WR *	1st Jan 2016 to 31st Jan 2016	00-24	No limit is being Specified.						

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ER-SR	1st Jan 2016 to 6th Jan 2016	00-06	2650	0	2650	2585	65		
		18-24				2650	0		
		06-18'				2650	0		
	7th Jan 2016	00-06	2650	0	2650	2585	65		
		06-18'	2650		2650	0			
		18-24	2650		2585	65			
	8th Jan 2016	00-05	2650	0	2650	2585	65		
		05-06'	2650		2650	0			
		06-18'	2650		2650	0			
		18-24	2650		2585	65			
	9th Jan 2016	00-05	2650	0	2650	2585	65		
		05-06'	650		650	2650	0		
		06-24'	650		650	2585	0		
	10th Jan 2016 to 13th Jan 2016	00-05	1650	0	1650	2585	0		
		05-06'	650		650	2650	0		
		06-24'	650		650	2585	0		
14th Jan 2016 to 19th Jan 2016	00-06	2650	0	2650	2585	65			
	18-24				2650	0			
	06-18'				2650	0			
20th Jan 2016 to 23rd Jan 2016	00-06	2650	0	2650	2585	0			
	06-07				2650	0			
	07-18				2350	0			
	18-24				2350	2585	0		
24th Jan 2016 to 31st Jan 2016	00-06	2650	0	2650	2585	65			
	18-24				2650	0			
	06-18'				2650	0			
SR-ER *	1st Jan 2016 to 31st Jan 2016	00-24	No limit is being Specified.						
ER-NER	1st Jan 2016 to 4th Jan 2016	00-17	1160	45	1115	210	905		
		23-24	1100		1055		845		
		17-23	1160		1115		905		
	5th Jan 2016	17-19	1160	45	1115	210	905		
		19-23	1340		1295		1085		
		23-24	1400		1355		1145		
		00-17	1400		1355		1145		
	6th Jan 2016 to 31st Jan 2016	23-24	1340	45	1295	210	1085		
		17-23	1340		1295		1085		
NER-ER	1st Jan 2016 to 4th Jan 2016	00-17	1110	45	1065	0	1065		
		23-24	950		905		905		
		17-23	1110		1065		1065		
	5th Jan 2016	17-19	950	45	905	0	905		
		19-23	1340		1295		1295		
		23-24	1330		1285		1285		
		00-17	1330		1285		1285		
	6th Jan 2016 to 31st Jan 2016	23-24	1340	45	1295	0	1295		
		17-23	1340		1295		1295		
W3 zone Injection	1st Jan 2016 to 31st Jan 2016	00-24	No limit is being specified (in case of skewed inter-regional flows or any constraints appearing in the system, W3 zone export would be revised accordingly)						

Note: TTC/ATC of S1-S2 corridor, 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).

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\$ 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) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry

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) KWPCCL, n)Vandana Vidut

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 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 :

- The TTC value will be revised to normal values after restoration of shutdown.
- The TTC value will 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	1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	1. n-1 contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit Low Voltage at Gazuwaka (East) Bus.
ER-NER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa
W3 zone Injection	---

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 Jan 2016 to 4th Jan 2016	00-05	11000	800	10200	8534	1666		
		05-08	11100		10300		1766		
		08-19	11000		10200		1666		
		19-24	10250		9450		916		
	5th Jan 2016	00-05	11000	800	10200	8534	1666		
		05-08	11100		10300		1766		
		08-09	11000		10200		1666		
		09-19	10300		9500		966		
	7th Jan 2016 to 14th Jan 2016	19-24	9600	800	8800	8534	266		
		00-05	11000		10200		1666		
		05-08	11100		10300		1766		
		08-19	11000		10200		1666		
	15th Jan 2016	19-24	10250	800	9450	8534	916		
		00-09	8850		8050		0		
		09-19	11000		10200		1666		
		19-22	10250		9450		916		
	16th Jan 2016 to 17th Jan 2016	22-24	8300	800	7500	8534	0		
		00-09	6000		5200		0		
		09-19	6000		5200		0		
		19-22	5600		4800		0		
	18th Jan 2016 to 21st Jan 2016	22-24	5600	800	4800	8534	0		
		00-09	6000		5200		0		
		09-19	6000		5200		0		
		19-22	5600		4800		0		
	22nd Jan 2016	22-24	5600	800	4800	8534	0		
		00-09	6000		5200		0		
		09-19	6000		5200		0		
		19-22	5600		4800		0		
	23rd Jan 2016	22-24	5600	800	4800	8534	0		
		00-09	8850		8050		0		
		09-19	11000		10200		1666		
		19-22	10250		9450		916		
	24th Jan 2016	22-24	8300	800	7500	8534	0		
		00-08	8850		8050		0		
		08-09	6000		5200		0		
		09-19	6000		5200		0		
	25th Jan 2016	19-22	5600	800	4800	8534	0		
		22-24	5600		4800		0		
		00-09	8850		8050		0		
		09-19	9150		8350		0		
	26th Jan 2016	19-22	8500	800	7700	8534	0		
		22-24	8300		7500		0		
		00-09	8850		8050		0		
		09-19	11000		10200		1666		
	27th Jan 2016 to 28th Jan 2016	19-22	10250	800	9450	8534	916		
		22-24	8300		7500		0		
		00-08	8250		7450		0		
		08-09	7650		6850		0		
	29th Jan 2016	09-19	7650	800	6850	8534	0		Revised considering shutdown of one circuit of 765 kV Gwalior - Phagi D/C and the present inter regional flow pattern
		19-22	7650		6850		0		
		22-24	8250		7450		0		
		00-08	8250		7450		0		
30th Jan 2016 to 31st Jan 2016	08-09	7650	800	6850	8534	0	-600		
	09-19	7650		6850		0	-1200		
	19-22	7650		6850		0	-3350		
	22-24	8250		7450		0	-2600		
30th Jan 2016 to 31st Jan 2016	00-09	8850	800	8050	8534	0	-50		
	09-19	11000		10200		1666			
	19-22	10250		9450		916			
	22-24	8300		7500		0			

NER	1st Jan 2016 to 4th Jan 2016	00-17	1160	45	1115	210	905			
		23-24								
		17-23	1100		1055		845			
	5th Jan 2016	00-17	1160	45	1115	210	905			
		17-19	1160		1115		905			
		19-23	1340		1295		1085			
		23-24	1400		1355		1145			
	6th Jan 2016 to 31st Jan 2016	00-17	1400	45	1355	210	1145			
		23-24								
		17-23	1340		1295		1085			
	WR									
	SR	1st Jan 2016 to 2nd Jan 2016	00-06	6150	750	5400	5835	0		
06-18'			6150	5400		5900	0			
18-24			6150	5400		5835	0			
3rd Jan 2016		00-06	3650	500	3150	5835	0			
		06-18'	3650		3150	5900	0			
		18-24	3650		3150	5835	0			
4th Jan 2016		00-06	3650	500	3150	5835	0			
		06-18'	3650		3150	5900	0			
		18-24	3650		3150	5835	0			
5th Jan 2016		00-06	3650	500	3150	5835	0			
		06-18'	3650		3150	5900	0			
		18-24	3650		3150	5835	0			
6th Jan 2016		00-06	3650	500	3150	5835	0			
		06-18'	3650		3150	5900	0			
		18-24	3650		3150	5835	0			
7th Jan 2016		00-06	3650	500	3150	5835	0			
		06-18'	3650		3150	5900	0			
		18-24	3650		3150	5835	0			
8th Jan 2016		00-05	6150	750	5400	5835	0			
		05-06'	6150		5400	5835	0			
		06-18'	6150		5400	5900	0			
		18-24	6150		5400	5835	0			
9th Jan 2016		00-01	6150	750	5400	5835	0			
		01-05	6650		5900	5835	65			
		05-06	4650		3900	5835	0			
		06-18	4150		3400	5900	0			
		18-24	4150		3400	5835	0			
10th Jan 2016 to 13th Jan 2016		00-05	5650	750	4900	5835	0			
		05-06'	4650		3900	5835	0			
		06-18'	4650		3900	5900	0			
		18-24	4650		3900	5835	0			
14th Jan 2016 to 19th Jan 2016		00-06	6650	750	5900	5835	65			
		06-18'	6650		5900	5900	0			
		18-24	6650		5900	5835	65			
20th Jan 2016 to 23rd Jan 2016		00-06	6650	750	5900	5835	0			
		06-07'	6650		5900	5900	0			
		07-18'	6350		5600	5900	0			
		18-24	6350		5600	5835	0			
24th Jan 2016 to 31st Jan 2016		00-06	6650	750	5900	5835	65			
		06-18'	6650		5900	5900	0			
		18-24	6650		5900	5835	65			

* 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).

* 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 Jan 2016 to 31st Jan 2016	00-06	4500	700	3800	999	2801		
		06-18			3800	1064	2736		
		18-24	4500		3800	999	2801		
NER	1st Jan 2016 to 4th Jan 2016	00-17	1110	45	1065	0	1065		
		17-23	950		905		905		
		23-24							
	5th Jan 2016	00-17	1110	45	1065	0	1065		
		17-19	950		905		905		
		19-23	1340		1295		1295		
		23-24	1330		1285		1285		
	6th Jan 2016 to 31st Jan 2016	00-17	1330	45	1285	0	1285		
		17-23	1340		1295		1295		
WR									
SR *	1st Jan 2016 to 31st Jan 2016	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 400 kV Biharshariff- Lakhisarai S/C 1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa.
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit Low Voltage at Gazuwaka (East) Bus.

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	22/12/2015	Whole month of January 2016	STOA margin revised due to change in LTA/MTOA towards NR	WR-NR / import of NR
			Revised due to commissioning of 765 kV Aurangabad - Sholapur D/C, 400 kV Kolhapur - Kudgi D/C and 765 kV Raichur - Kurnool ckt 1	WR-SR
			Revised due commissioning of new transmission elements	ER-NR
			Revised due commissioning of 765 kV Aurangabad-Sholapur D/C, 765 kV Dharamjaigarh - Jabalpur D/C and considering the present inter regional power flow pattern	W3 Zone injection
2	31/12/2105	1/12/2015 to 5/12/2015	Revised due to shutdown of HVDC Bhadrawati pole 1	WR-SR/Import of SR
		Whole month of January 2016	Revised considering new new lines commissioned and outage of 220 kV Balipara - Samaguri	ER-NER/NER-ER
3	2/1/2016	3/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR-SR/Import of SR
4	3/1/2016	4/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR-SR/Import of SR
5	4/1/2016	5/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR-SR/Import of SR
		5/1/2016 to 6/1/2016	Revised due to emergency shutdown of 765/400kV ICT at Agra.	WR-NR / import of NR
6	5/1/2016	6/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR-SR/Import of SR
7	5/1/2016	5/1/2016 to 31/1/2016	Revised due to restoration of 220 kV Balipara - Samaguri	ER-NER/NER-ER
8	6/1/2016	5/1/2016 to 31/1/2016	Revised due to shutdown of HVDC Talcher-Kolar Pole-1 & Pole-2.	ER-SR/ Import of SR
9	7/1/2016	7/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2 and outage of one pole of HVDC Bhadrawati and due to rescheduling of shutdown of HVDC Talcher-Kolar Pole-1 & Pole-2.	WR-SR/ER-SR/Import of SR
		8/1/2016 to 11/1/2016	Revised due to rescheduling of shutdown of HVDC Talcher-Kolar Pole-1 & Pole-2.	ER-SR/Import of SR
		12/1/2016	Revised due to shutdown of HVDC Talcher-Kolar Pole-1 & Pole-2.	ER-SR/Import of SR
10	8/1/2016	8/1/2016 to 12/1/2016	Revised due to deferrment of shutdown of HVDC Talcher-Kolar Pole-1 & Pole-2 and Outage of one pole of HVDC Bhadrawati.	WR-SR/ER-SR/Import of SR
11	8/1/2016	9/1/2016 to 13/1/2016	Revised due to shutdown of HVDC Talcher-Kolar Pole-1 & Pole-2 and Outage of one pole of HVDC Bhadrawati.	ER-SR /Import of SR

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Total Transfer Capability for January 2016

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
12	9/1/2016	9/1/2016 to 13/1/2016	Revised due to restoration of pole-I of HVDC Bhadrawati.	WR-SR /Import of SR
13	9/1/2016	9/1/2016	Revised due to outage of pole-I of HVDC Bhadrawati.	WR-SR /Import of SR
14	14/1/2016	15/1/2016 to 31/1/2016	Revised due to Reduced Voltage Operation (RVO) Mode of Mundra-Mohinderghar HVDC and Rihand-Dadri HVDC.	WR-NR /Import of NR
15	15/1/2016	16/1/2016 to 17/1/2016	Revised due to Outage of 400kV Phagi-Bassi D/C and Outage of one ckt of 765kV Gwalior-Agra.	WR-NR /Import of NR
16	17/1/2016	18/1/2016 to 21/1/2016	Revised due to outage of one circuit of 400kV Phagi-Bassi and outage of one ckt of 765kV Gwalior-Agra.	WR-NR /Import of NR
17	1/19/2016	20/01/16 to 23/01/16	Revised due to the shutdown of 400 kV Jeypore-Indravati.	ER-SR/Import of SR
18	21/1/2016	22/1/2016 to 23/1/2016	Revised due to shutdown of 765kV Gwalior-Agra Ckt-2.	WR-NR /Import of NR
19	22/1/2016	23/1/2016	Revised due to deferrment of shutdown of 765kV Gwalior-Agra Ckt-2.	WR-NR /Import of NR
20	23/1/2016	24/1/2016	Revised due to shutdown of 765kV Gwalior-Agra Ckt-2.	WR-NR /Import of NR
21	23/1/2016	24/1/2016	Revised due to restoration of HVDC Rihand-Dari and the shutdown of 765 kV Gwalior-Agra-1	WR-NR /Import of NR
22	24/1/2016	25/1/2016	Revised due to shutdown of one pole of HVDC Rihand - Dadri	WR-NR /Import of NR
23	26/1/2016	27/1/2016 to 28/1/2016	Revised considering shutdown of one circuit of 765 kV Gwalior - Phagi D/C and the present inter regional flow pattern	WR-NR /Import of NR
24	28/1/2016	29/1/2017	Revised considering shutdown of one circuit of 765 kV Gwalior - Phagi D/C and the present inter regional flow pattern	WR-NR /Import of NR

ASSUMPTIONS IN BASECASE					
				Month : January '16	
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	5199	3202	2642	2259
2	Haryana	5948	3423	3088	3088
3	Rajasthan	9489	8509	5784	5708
4	Delhi	3966	2030	905	905
5	Uttar Pradesh	12457	12419	5395	5351
6	Uttarakhand	1665	1402	614	350
7	Himachal Pradesh	1392	1023	219	76
8	Jammu & Kashmir	2184	2517	379	155
9	Chandigarh	234	116	0	0
10	ISGS/IPPs	0	0	18010	10990
	Total NR	42534	34642	37036	28882
II	EASTERN REGION				
1	Bihar	2642	1775	180	100
2	Jharkhand	1121	739	455	215
3	Damodar Valley Corporation	2466	1899	3485	2815
4	Orissa	3449	2379	2390	1576
5	West Bengal	6671	4388	4796	3378
6	Sikkim	98	64	0	0
7	Bhutan	245	245	352	0
8	ISGS/IPPs	602	599	10700	9171
	Total ER	17293	12089	22359	17255
III	WESTERN REGION				
1	Maharashtra	20219	10937	14007	7706
2	Gujarat	12105	8961	8303	5316
3	Madhya Pradesh	9578	3649	5550	1333
4	Chattisgarh	3568	2205	2661	1570
5	Daman and Diu	283	203	0	0
6	Dadra and Nagar Haveli	798	562	0	0
7	Goa-WR	469	302	0	0
8	ISGS/IPPs	835	837	26803	19253
	Total WR	47856	27657	57324	35178

IV	SOUTHERN REGION				
1	Andhra Pradesh	6017	5521	5699	5264
2	Telangana	7012	5973	2713	2190
3	Karnataka	8161	7225	6446	5250
4	Tamil Nadu	13147	11563	7036	4865
5	Kerala	3409	2427	1687	701
6	Pondy	383	383	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	12143	12143
	Total SR	38218	33181	35724	30413
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	95	43	0	0
2	Assam	877	636	192	122
3	Manipur	98	58	0	0
4	Meghalaya	292	181	147	86
5	Mizoram	68	43	4	4
6	Nagaland	80	65	8	6
7	Tripura	190	88	85	85
8	ISGS/IPPs	0	0	1272	867
	Total NER	1700	1114	1708	1170
	Total All India	147602	108682	154151	112899