## National Load Despatch Centre Total Transfer Capability for January 2014

Issue Date: 31/12/2013

Issue Time: 1800 hrs

Revision No. 5

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 January 2014 to 31st January 2014	00-24	2500	500	2000	286	1714		
WR-NR <sup>1</sup>	1st January 2014 to 31st January 2014	00-17 23-24 17-23	3900 3900	500	3400 3400	3181 3181	219 219		
NR-ER *	1st January 2014 to 31st January 2014	00-17 23-24 17-23	1000 1100	200	800 900	200	600 700		
ER-NR *	1st January 2014 to 31st January 2014	00-17 23-24 17-23	3800	300	3500	2118	1382 1382		
W3-ER	1st January 2014 to 31st January 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st January 2014 to 31st January 2014	00-24	1000	300	700	700	0		
WR-SR	1st January 2014 to 31st January 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st January 2014 to 31st January 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st January 2014 to 31st January 2014	00-05 10-19 05-10	750	0	750	657	93		
	1st January 2014 to	03-10 19-24 00-17	1250 1100		1250		593 903		
SR-ER *	31st January 2014	23-24 17-23	1100	0	1100	197	903		
2	1st January 2014	00-24	500	50	450	230	220	220	Revised due Outage of 400kV Purnea-Binaguri Ckt-I &II
ER-NER <sup>2</sup>	2nd January 2014 to 31st January 2014	00-17 23-24 17-23	720 640	50	670 590	230	440 360		
NER-ER	1st January 2014 to 31st January 2014	00-17 23-24 17-23	570 570	100	470 470	0	470 470		
	1	17-23	570		7/0		ч/V		
S1-S2 Import of	1st January 2014 to 31st January 2014 1st January 2014 to	00-24	5600	400	5200	4900	300		
Punjab Import TTC	31st January 2014	00-24	5600	300	5300	3800	1500		
for DD & DNH	1st January 2014 to 31st January 2014	00-24	980	0	980	LTA and MTO. scheo			
W3 zone	1st January 2014 to	00-08 23-24 08-16'	8500 8000	200	8300 7800	7630	670 170		
Injection	31st January 2014	16-17 17-23	9000 9500	200	8800 9300	,	1170 1170 1670		

\* 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) 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

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# 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 les. RLDC/ NLDC would factor this situation while issuing STOA approvals.

# 1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections: • 765 kV Gwalior-Agra one circuit

## • 765 kV Bina-Gwalior one circuit

# 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**

NR-WR(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.WR-NRHigh loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)NR-ER(n-1) contingency of 400 kV Allahabad-PusauliER-NR(n-1) contingency of 400 kV Kahalgaon-BiharshariffW3-ER(n-1) contingency of 400 kV Kahalgaon-BiharshariffW3-ER(n-1) contingency of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400 kV Raigarh-SterliteWR-SRBhadrawati HVDC B/B link capacitySR-WRBhadrawati HVDC B/B link capacityER-SRPeak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-GazuwakaER-SRPeak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-GazuwakaSR-ER(n-1) contingency of 400 kV Kahalgaon-BiharshariffNER-ER(n-1) contingency of 400 kV Kahalgaon-BiharshariffNER-ER(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 1CT at Patiala/MogaW3 zone Injection(n-1) contingency of 400 kV 400 kV Raipur-Wardha	Corridor	Constraint
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 400 kV Kaipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*     (n-1) contingency of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*     (n-1) contingency of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*     (n-1) contingency of 400 kV Raigarh-Sterlite     WR-SR   Bhadrawati HVDC B/B link capacity     SR-WR   Bhadrawati HVDC B/B link capacity     Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR     SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV A00 kV Raipur Wardba	NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
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   Bhadrawati HVDC B/B link capacity     SR-WR   Bhadrawati HVDC B/B link capacity     Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     SR-ER     ER-SR     SR-ER     ER-NER     (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER     (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV A00 kV Raipur Wardba	WR-NR	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
W3-ER   (n-1) contingency of 400kV Sterilte-Rourkela S/C     High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*     (n-1) contingency of 400kV Raigur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*     (n-1) contingency of 400kV Raigarh-Sterlite     WR-SR   Bhadrawati HVDC B/B link capacity     SR-WR   Bhadrawati HVDC B/B link capacity     Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR     SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV K0kV Apaipur, Wardba	NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*     (n-1) contingency of 400 kV Raigarh-Sterlite     WR-SR   Bhadrawati HVDC B/B link capacity     SR-WR   Bhadrawati HVDC B/B link capacity     Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR     SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV Kalaigan-Biharshari	ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
ER-W3   (n-1) contingency of 400kV Raigarh-Sterlite     WR-SR   Bhadrawati HVDC B/B link capacity     SR-WR   Bhadrawati HVDC B/B link capacity     Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR     SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV K0kV Paipur, Wardha	W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
SR-WR   Bhadrawati HVDC B/B link capacity     ER-SR   Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR     SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     NER-ER   (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa     (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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV K0kV Auge kV Auge kV	ER-W3	
ER-SR   Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR     SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV 400 kV Raipur, Wardha	WR-SR	Bhadrawati HVDC B/B link capacity
ER-SR   Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka     ER-SR   SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV 400 kV Againar, Wardha	SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER     ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     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 Patiala/Moga     W3 zone   (n - 1) contingency of 400 kV 400 kV Againar, Wardha	ER-SR	
ER-NER   (n-1) contingency of 400 kV Kahalgaon-Biharshariff     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 Patiala/Moga     W3 zone   (n - 1) contingency of 400 kV 400 kV A00 kV Paipur Wardha	ER-SR	
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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV 400 kV A00 kV Paipur Wardba	SR-ER	
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 Patiala/Moga     W3 zone   (n 1) contingency of 400 kV 400 kV Paipur Wardha	ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
S1-52   and 400kV Somanahalli-Salem S/C line.     Import of Punjab   (n-1) contingency of ICT at Patiala/Moga     W3 zone   (n-1) contingency of 400 kV 400 kV Paipur Wardha	NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
Punjab (n-1) contingency of ICT at Patiala/Moga   W3 zone (n-1) contingency of 400 kV 400 kV Paipur Wardha	<b>S1-S2</b>	
(n 1) contingency of 400 kV 400 kV Painur Wardha	Punjab	(n-1) contingency of ICT at Patiala/Moga
		(n-1) contingency of 400 kV 400 kV Raipur-Wardha

\*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									
ER									
NR <sup>1</sup>	1st January 2014 to 31st January 2014	00-17 23-24	7700	800	6900	5299	1601		
	51st Sundary 2014	17-23	7700		6900		1601		
	1st January 2014	00-24	500	50	450	230	220	220	Revised due Outage of 400kV Purnea-Binaguri Ckt-I &II
NER <sup>2</sup>	2nd January 2014 to 31st January 2014	00-17 23-24	720	50	670	230	440		
	51st January 2014	17-23	640		590		360		
WR									
** 1									
SR	1st January 2014 to	00-05 10-19	1750	0	1750	1657	93		
	31st January 2014	05-10 19-24	2250		2250	1037	593		

1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

• 765 kV Gwalior-Agra one circuit

• 765 kV Bina-Gwalior one circuit

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 January 2014 to 31st January 2014	00-17 23-24	3500	700	2800	286	2514		
	51st January 2014	17-23	3600		2900		2614		
NER	1st January 2014 to	00-17 23-24	570	100	470	0	470		
	31st January 2014	17-23	570		470		470		
WR									
WK									
SR*	1st January 2014 to	00-17 23-24	2100	0	2100	197	1903		
	31st January 2014	17-23	2100		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**

	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NR	•	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra) (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NEK	Export	N-1 contingency of 400/220 kV, 2x315 MVA ICTs at Misa
		Bhadrawati HVDC B/B link capacity
SR	Import	Peak: (n-1) contingency of 400 kV Rourkela-Talcher
ы		Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
	Export	

\*Primary constraints

# National Load Despatch Centre Total Transfer Capability for January 2014

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	04-11-13	Whole Month	Margin on NR-ER Corridor revised considering the LTA/MTOA on NR- ER Path	NR-ER
			Revised due to change in Load Generation in WR/NR	WR-NR
2	27-11-13		Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea.	ER-NR/ER-NER
2	27-11-15	Whoe Month	Change in Load Generation Balance in ER	ER-SR
			Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR.	W3 Zone Injection
3	23-12-13	Whoe Month	Revised due to Commissioning of Kudankulam and NLC II EXP.	S1-S2
4	27-12-13	Whoe Month	Revised due to Load Generation Balance	ER-SR
5	31-12-13	01-01-14	Revised due Outage of 400kV Purnea-Binaguri Ckt-I &II	ER-NER

# ASSUMPTIONS IN BASECASE

Month : January '14

	Month : January 14								
		Loa	ad	Generation					
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)				
I	NORTHERN REGION								
1	Punjab	7000	4924	2546	2351				
2	Haryana	5559	4660	2770	2770				
3	Rajasthan	7051	6539	4002	4002				
4	Delhi	3974	3720	1514	1514				
5	Uttar Pradesh	11000	10322	6008	5756				
6	Jammu & Kashmir	1876	1185	584	429				
7	Uttarakhand	1543	902	713	340				
8	Himachal Pradesh	1327	730	444	523				
9	Chandigarh	224	118	0	0				
10	ISGS/IPPs			16740	11303				
	Total NR	39554	33100	35321	28988				
II	EASTERN REGION								
1	West Bengal	4900	4500	4837	3944				
2	Jharkhand	1110	770	561	561				
3	Orissa	3500	2200	2430	1699				
4	Bihar	1820	1320	0	0				
5	Damodar Valley Corporation	2600	2035	3439	3039				
6	Sikkim	40	40						
7	Bhutan	110	110	648	648				
8	ISGS/IPPs	131	241	6494	6762				
	Total ER	14211	11216	18409	16653				
III	WESTERN REGION								
1	Chattisgarh	3181	2462	1804	1065				
2	Madhya Pradesh	7637	5600	9905	7817				
3	Maharashtra	15506	12500	4366	2928				
4	Gujarat	11119	10121	11221	8374				
5	Goa	432	281	0	0				
6	Daman and Diu	245	208	0	0				
7	Dadra and Nagar Haveli	604	471	0	0				
8	ISGS/IPPs	590	590	16763	15466				
	Total WR	39314	32233	44059	35650				
			01100						

IV	SOUTHERN REGION				
1	Andhra Pradesh	10900	9350	7204	6066
2	Tamil Nadu	11300	8617	6433	4962
3	Karnataka	7800	6499	5213	3549
4	Kerala	3225	2234	1917	760
5	Pondy	320	244	0	0
6	Goa	80	80	0	0
7	ISGS/IPPs			11130	10168
	Total SR	33625	27024	31897	25505
V	NORTH-EASTERN REGION				
1	Manipur	130	91	0	0
2	Meghalaya	280	196	110	95
3	Mizoram	85	60	8	4
4	Nagaland	120	84	20	10
5	Assam	1350	970	220	180
6	Tripura	260	130	100	100
7	Arunachal Pradesh	130	91	0	0
8	ISGS/IPPs			1020	735
	Total NER	2355	1622	1478	1124
	Total All India	129059	105195	131164	107920