National Load Despatch Centre Total Transfer Capability for July 2017

Issue Date: 23rd July 2017

Issue Time: 1100 hrs

Revision No. 15

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 July 2017 to 31st July 2017	00-06 06-18	2500	500	2000	55 65	1945 1935		
	1st July 2017 to	18-24	0050	500	0550	55	1945		
	4th July 2017	00-24	9050	500	8550	7951	599		
	5th July 2017	00-530	9050	500	8550	7951	599		-
	and 6th July 2017	530-14 14-24	7750 9050	500 500	7250 8550	7951 7951	0 599		-
		00-0730'	9050	500	8550	7951	599		
	7th July 2017	0730-24	8550	500	8050	7951	99		
	8th July 2017 to 14th July 2017	00-24	8550	500	8050	7951	99		
τη το το τ	15th July 2017 to 18th July 2017	00-24	9050	500	8550	7951	599		
WR-NR*	19th July 2017	00-24	7550	500	7050	7951	0		
	20th July 2017 to 21st July 2017	00-24	7550	500	7050	7951	0		
	22nd July 2017 to 23rd July 2017	00-24	7550	500	7050	7951	0		
	24th July 2017 to 25th July 2017	00-24	7550	500	7050	7951	0	-1500	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1 since 11:18 hrs of 18.07.17
	26th July 2017 to 31st July 2017	00-24	9050	500	8550	7951	599		
	1st July 2017 to	00-06	2000		1800	193	1607		
NR-ER*	31st July 2017 to	06-18'	2000	200	1800	303	1497		
ER-NR*	1st July 2017 to 31st July 2017	18-24 00-24	2000 4500	300	1800 4200	193 2983	1607 1217		
W3-ER	1st July 2017 to 31st July 2017	00-24				No	limit is being spec	ified.	
ER-W3	1st July 2017 to 31st July 2017	00-24				No	limit is being spec	vified.	
		00-05	4350		3850		0		
	1st July 2017	05-22	4350	500	3850	3888	0		-
	15t July 2017	22-24	4350		3850		0		
		00-05	4350		3850		0		
	2nd July 2017	05-0730	4350	500	3850	3888	0		
		0730-22	2950		2450		0		-
		22-24 00-05	2950 4350		2450 3850		0 0		
	3rd July 2017 to	05-22	4350	500	3850	3888	0		
	17th July 2017	22-24	4350		3850		0		
	19th Lalas 2017	00-05	4350		3850		0		-
	18th July 2017 and	05-09 09-14	4350 3550	500	3850 3050	3888	0 0		-
	19th July 2017	14-22	4350	500	3850	5000	0		
		22-24	4350		3850		0		
WD CD		00-05	4350	7 00	3850		0		-
WR-SR	20th July 2017	05-22 22-24	4350 4350	500	3850 3850	3888	0 0		-
		00-05	4350		3850		0		
		05-0830	4350		3850		0		
	21st July 2017	0830-14	3350	500	2850	3888	0		-
		14-22 22-24	4350 4350		3850 3850	4	0 0		-
		00-05	4350		3850		0		
	22nd July 2017	05-22	4350	500	3850	3888	0		
		22-24	4350		3850		0		
		00-05	4350		3850	-	0		4
	23rd July 2017	05-06 06-22	4350 2950	500	3850 2450	3888	0 0		1
		22-24	2950		2430		0		
	244 1-1-2017	00-05	4350		3850		0		
	24fn mil //////								
	24th July 2017 to 31st July 2017	05-22 22-24	4350 4350	500	3850 3850	3888	0 0		-

National Load Despatch Centre Total Transfer Capability for July 2017

Issue Date:	: 23rd July 2017	7	Issu	e Time: 110	00 hrs			Revision No. 15	
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
SR-WR *	1st July 2017 to 31st July 2017	00-24				No	limit is being Spec	ified.	
	1st July 2017 to 8th July 2017	00-06 06-18' 18-24	3450	250	3200	3061 3146 3061	139 54 139		
CR-SR	004h Luby 2017	00-06	3450	250	3200	3061 3146	139 54		
	09th July 2017	0830-18 18-24	3100 3450	250	2850 3200	3146 3061	0 139		
	10th July 2017 to 13th July 2017	00-06 06-18' 18-24	3450	250	3200	3061 3146 3061	139 54 139		
ER-SR	14th July 2017 to 31st July 2017	00-06 06-18' 18-24	3450	250	3200	2618 2703 2618	582 497 582		
SR-ER *	1st July 2017 to 31st July 2017	00-24				ļ	limit is being Spec	ified.	
	1st July 2017 to 4th July 2017	00-17 17-23 23-24	1035 1010 1035	45	990 965 990	225	765 740 765		
ER-NER	5th July 2017	00-08 08-16 16-17 17-23	1035 1035 790 1035 1010	45	990 745 990 965	225	765 520 765 740		
	6th July 2017 to	23-24 00-17 17-23	1010 1035 1035 1010	45	903 990 990 965	225	740 765 765 740		
	31st July 2017 1st July 2017 to	23-24 00-17 17-23	1010 1035 1180 1050	45	990 1135 1005	0	765 1135 1005		
	4th July 2017	23-24 00-08	1180 1180	10	1135 1135		1135 1135		
NER-ER	5th July 2017	08-16 16-17 17-23 23-24	930 1180 1050 1180	45	885 1135 1005 1135	0	885 1135 1005 1135		
	6th July 2017 to 31st July 2017	00-17 17-23 23-24	1180 1180 1050 1180	45	1135 1135 1005 1135	0	1135 1135 1005 1135		
W3 zone Injection	1st July 2017 to 31st July 2017 ATC of S1-(S2&S								be revised accordingly)

* 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) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala

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) KWPCL, n)Vandana Vidyut o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

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 commissionned 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 will be revised to normal values if the shutdown is not being availed in real time.

Simultaneous Import Capability

Corrido r	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									
		00-05	12900		12100		1166		
	1st July 2017 to	05-08	12900		12100		1166		
	4th July 2017	08-18	12900	800	12100	10934	1166		
		18-23	11600		10800		0		
		23-24	12900		12100		1166		
		00-0530 0530-08	12900 11100		12100 10300		1166 0		
	5th July 2017	0330-08	11100	000	10300		0		
	and 6th July 2017	14-18	12900	800	12100	10934	1166		
	our July 2017	18-23	11600		10800		0		
		23-24	12900		12100		1166		
		00-05	12900		12100		1166		
	7th July 2017	05-0730 0730-18	12900 12200	800	12100 11400	10934	1166 466		
	7 th July 2017	18-23	12200	000	10200	10754	0		
		23-24	12200		11400		466		
		00-05	12200		11400		466		
	8th July 2017 to	05-08	12200		11400		466		
	14th July 2017	08-18	12200	800	11400	10934	466		
	ý	18-23	11000		10200		0		
		23-24 00-05	12200 12900		11400 12100		466 1166		
	15th July 2017	05-08	12900	800	12100	10934	1166		
	to 18th July	08-18	12900		12100		1166		
	2017	18-23	11600		10800		0		
NR		23-24	12900		12100		1166		
		00-05	10800	-	10000		0		
	19th July 2017	05-08	10800	800	10000	10934	0		
	19th July 2017	08-18 18-23	10800 9700		10000 8900	10934	0		
		23-24	10800		10000		0		
		00-05	10800	800	10000		0		
	20th July 2017	05-08	10800		10000	10934	0		
	to 21st July	08-18	10800		10000		0		
	2017	18-23	9700		8900		0		
		23-24 00-05	10800 10800		10000 10000		0		
	22nd July 2017	05-08	10800	800	10000		0		
	to 23rd July	08-18	10800		10000		0		
	2017	18-23	9700		8900		0		
		23-24	10800		10000		0		
	24th July 2017	00-05 05-08	10800 10800		10000 10000		0	-2100 -2100	Revised due to forced
	to 25th July	03-08	10800	800	10000	10934	0	-2100	outage of HVDC Champa-
	2017	18-23	9700		8900	10751	0	-1900	Kurukshetra Pole-1 since
		23-24	10800		10000		0	-2100	11:18 hrs of 18.07.17
		00-05	12900		12100		1166		
	26th July 2017	05-08	12900	000	12100	10024	1166		
	to 31st July	08-18	12900	800	12100	10934	1166		
	2017	18-23 23-24	11600 12900		10800 12100		0 1166		
	1	00-17	12900		990		765		
	1st July 2017 to	17-23	1010	45	965	225	740		
	4th July 2017	23-24	1035		990		765		
		00-08	1035		990		765		
	541 1 1 2017	08-16	790	4.5	745	225	520		
NER	5th July 2017	16-17	1035	45	990 965	225	765		
		17-23 23-24	1010 1035		965 990		740 765		
		00-17	1035		990		765		
	6th July 2017 to	17-23	1010	45	965	225	740		
	31st July 2017	23-24	1035		990		765		

								1	
		00-05	7800		7050	6949	101		
		05-06	7800		7050	6949	101		
	1st July 2017	06-18	7800	750	7050	7034	16		
		18-22	7800		7050	6949	101		
		22-24	7800		7050	6949	101		
		00-05	7800		7050	6949	101		
				-					
		05-06	7800		7050	6949	101		
	2nd July 2017	06-0730	7800	750	7050	7034	16		
		0730-18	6400		5650	7034	0		
		18-22	6400		5650	6949	0		
		22-24	6400		5650	6949	0		
		00-05	7800		7050	6949	101		
		05.06	7800		7050	6949	101		
	3rd July 2017 to	06-18	7800	750	7050	7034	16		
	8th July 2017			750		6949	101		
		18-22	7800	-	7050				
		22-24	7800		7050	6949	101		
		00-05	7800		7050	6949	101		
		05-06	7800		7050	6949	101		
	00th July 2017	06-0830	7800	750	7050	7034	16		
	09th July 2017	0830-18	7450	750	6700	7034	0		
		18-22	7800		7050	6949	101		
		22-24	7800		7050	6949	101		
		00-05	7800		7050	6949	101		<u>↓</u>
	10th July 2017	05-06	7800			<u> </u>			
				750	7050		101		
	to 13th July	06-18	7800	750	7050	7034	16		
	2017	18-22	7800		7050	6949	101		
		22-24	7800		7050	6949	101		
		00-05	7800		7050	6506	544		
	14th July 2017	05-06	7800		7050	6506	544		
	to 17th July	06-18	7800	750	7050	6591	459		
	2017	18-22	7800		7050	6506	544		
	2017	22-24	7800		7050	6506	544		
SR		00-05	7800		7050	6506	544		
		05-06	7800	-	7050	6506	544		
	18th July 2017	06-09	7800		7050	6591	459		
	and	09-14	7000	750	6250	6591	0		
	19th July 2017	14-18	7800		7050	6591	459		
		18-22	7800		7050	6506	544		
		22-24	7800		7050	6506	544		
		00-05	7800		7050	6506	544		,
		05-06	7800		7050	6506	544		
	20th July 2017		7800	750	7050		459		
	20th July 2017	06-18		/30		6591			
		18-22	7800		7050	6506	544		
		22-24	7800		7050	6506	544		
		00-05	7800		7050	6506	544		
		05-06	7800		7050	6506	544		
		06-0830	7800		7050	6591	459		
	21st July 2017	0830-14	6800	750	6050	6591	0		
		14-18	7800		7050	6591	459		
		18-22	7800	1	7050	6506	544	1	
		22-24	7800	1	7050	6506	544	1	
		00-05	7800		7050	6506	544	I	
		05-06	7800		7050	6506	544		
	22nd July 2017			750	-				
	22nd July 2017	06-18	7800	750	7050	6591	459		
		18-22	7800		7050	6506	544		
		22-24	7800		7050	6506	544		
		00-05	7800		7050	6506	544		
		05-06	7800		7050	6506	544		
	23rd July 2017	06-18	6400	750	5650	6591	0		
		18-22	6400		5650	6506	0		
		22-24	6400	1	5650	6506	0		
		00-05	7800		7050	6506	544		
	24th July 2017	05-06	7800		7050	6506	544		
	5			750	-				
	to	06-18	7800	750	7050	6591	459		
	31st July 2017	18-22	7800		7050	6506	544		
		22-24	7800		7050	6506	544		
							1		

* 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

Corrido r	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 July 2017 to	00-06	4500		3800	248	3552			
NR*	31st July 2017	06-18'		700	3800	368	3432			
		18-24	4500		3800	248	3552			
	1st July 2017 to 4th July 2017	00-17	1180	45 45	1135		1135			
		17-23	1050		1005	0	1005			
		23-24	1180		1135		1135			
		00-08	1180		1135	0	1135			
		08-16	930		885		885			
NER	5th July 2017	16-17	1180		1135		1135			
		17-23	1050		1005		1005			
		23-24	1180		1135		1135			
	6th July 2017 to	00-17	1180		1135		1135			
	31st July 2017 to	17-23	1050	45	1005	0	1005			
	51st July 2017	23-24	1180		1135		1135			
WD										
WR										
SR *	1st July 2017 to 31st July 2017	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 (Corridor wise)

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	All
	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. High Loading of 400kV Singrauli-Anpara S/C.	All
WR-NR	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. High Loading of 400kV Singrauli-Anpara S/C and restriction on power flow of HVDC Vindhyachal from WR to NR.	Rev 8 - 15
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	All
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c and high availability of Hydro power	All
	(n-1) contingency of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 0
	(n-1) contingency of 400 kV Dichipalli-Ramagundam or (n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 1-4, Rev 6-8, 10, 13
WR-SR & ER- SR	(n-1) contingency of other ckt of 765kV Raichur-Sholapur will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 5,14-15
	(n-1) contingency of One pole will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri-i is under annual maintenance)	Rev 9
	(n-1) contingency of ICT # 2 at Nizamabad will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri-i is under annual maintenance)	Rev 11-12
	Low Voltage at Gazuwaka (East) Bus.	All
ER-NER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
NER-ER	(n-1) contingency of 400 kV Byrnihat - Bongaigaon line High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
W3 zone Injection		

Limiting Constraints (Simultaneous)

			Applicable Revisions
		(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/C and high availability of Hydro power	All
NR	Import	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. High Loading of 400kV Singrauli-Anpara S/C.	All
		(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. High Loading of 400kV Singrauli-Anpara S/C and restriction on power flow of HVDC V'chal from WR to NR.	Rev 8-15
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod- Modak.	All
		(n-1) contingency of 400 kV Saranath-Pusauli	All
NED	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
NER	Export	(n-1) contingency of 400 kV Byrnihat - Bongaigaon line High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
		(n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 0
		(n-1) contingency of 400 kV Dichipalli-Ramagundam or (n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 1-4, Rev 6-8, 10, 13
SR	Import	(n-1) contingency of other ckt of 765kV Raichur-Sholapur will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna	Rev 5,14-15
		(n-1) contingency of One pole will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri- i is under annual maintenance	Rev 9
		(n-1) contingency of ICT # 2 at Nizamabad will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri-i is under annual maintenance)	Rev 11-12
		Low Voltage at Gazuwaka (East) Bus	All

National Load Despatch Centre Total Transfer Capability for July 2017

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
-			STOA Margins revised due to change in LTA / MTOA approved by CTU	ER - NR / Import of NR
1	27th April 2017	Whole month	Revised considering commissioning of one pole of HVDC Champa - Kurukshetra, the present load generation balance and change in LTA/MTOA approved by CTU	WR - NR / Import of NR
			Revised considering the commissioning of 765 kV Durg - Wardha D/C, second ICT at Vemagiri, 765 kV Wardha - Nizamabad D/C, two ICTs at Nizamabad, and 400 kV Nizamabad-Dichipally D/C.	WR - SR / ER - SR / Import of SR
2	5th May 2017	Whole month	Revised considering the latest LTA/MTOA granted by CTU	WR - SR / ER - SR / Import of SR
3	9th May 2017	Whole month	Revised considering the latest LTA/MTOA granted by CTU	WR - SR / Import of SR
4	23rd May 2017	Whole month	Revised considering present Inter-regional flow pattern	Import of NR
5	01st July 2017	02nd July 2017	Revised due to shutdown of 765kV Raichur-Sholapur-1	WR - SR / Import of SR
6	03rd July 2017	05th July 2017	Revised due to day-time shutdown of 400/220 kV ICT-II at Misa Substation	ER - NER /NER- ER
7	04th July 2017	05th & 06th July 2017	Due to Shutdown of Champa-Kurukshetra pole-1 for testing of Pole-2	WR-NR/ NR Import
8	06th July 2017	07th to 14 July 2017	Revised due to shutdown of HVDC Rihand Dadri Pole-1	WR-NR/ NR Import
9	7th July 2017	9th July 2017	Revised due to shutdown of 400kV Rengali-Indravati S/C	ER-SR/SR Import
10	13th July 2017	14th July to 31st July 2017	Revised STOA margins due to planned shutdown of Unit#4 of Talcher Stg-II for 45 days	ER-SR/SR Import
11	17th July 2017	18th and 19th July 2017	Revised Due to Shutdown of one ICT at Nizamabad SS	WR-SR/SR Import
12	18th July 2017	19th July 2017	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1	WR-NR/ NR Import
13	19th July 2017	20th July 2017 and 21st July 2017	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1	WR-NR/ NR Import
		21st July 2017	Revised due to Black start Mock Drill exercise at HVDC Bhadravati and Ramagundam	WR-SR/SR Import
14	21st July 2017	22nd July 2017 to 23rd July 2017	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1	WR-NR/ NR Import
		23rd July 2017	Revised due to shutdown of 765kV Sholapur-Raichur-1 and 2(One at a time)	WR-SR/SR Import
15	23rd July 2017	24th July 2017 to 25th July 2017	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1 since 11:18 hrs of 18.07.17	WR-NR/ NR Import

	MPTIONS IN BASECASE			Month : July'17	
S.No.	Name of State/Area	Load		Generation	
5.110.		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
	NORTHERN REGION	Feak LOau (IVIVV)	OII FEAK LUAU (IVIV)	reak (IVIVV)	
1	Punjab	10671	0400	4005	4200
	Haryana		9480	4285	4302
	Rajasthan	8203	8052	1533	1533
	Delhi	8264	9534	4458	4458
	Uttar Pradesh	5767	6332	940	940
	Uttarakhand	14322	14317	10032	10036 962
	Himachal Pradesh	1869	1634	985	
	Jammu & Kashmir	1184	1068	921	863
		2359	1498	<u>920</u> 0	930
9	Chandigarh ISGS/IPPs	327	300	-	0
10	Total NR	27	27	19979	18386
	TOTALINK	52992	52241	44053	42410
	EASTERN REGION				
	Bihar	3920	2608	238	238
	Jharkhand	1193	836	397	337
	Damodar Valley Corporation	2961	2554	4468	3768
		4173	3199	3342	2325
	West Bengal	8359	5800	5216	4148
	Sikkim	88	89	0	0
	Bhutan	245	245	982	982
8	ISGS/IPPs	560	567	11255	8518
	Total ER	21469	15868	25869	20286
	WESTERN REGION				
	Maharashtra	14940	11898	9694	7279
	Gujarat	12432	10131	9835	7466
	Madhya Pradesh	7044	5925	3569	3099
	Chattisgarh	3353	3104	1915	2461
	Daman and Diu	286	279	0	0
6	Dadra and Nagar Haveli	740	717	0	0
7		399	296	0	0
8	ISGS/IPPs	2701	2844	32655	29850
	Total WR	41896	35194	57668	50154
V	SOUTHERN REGION				
1	Andhra Pradesh	7900	7330	6080	5500
2	Telangana	7305	5815	4523	3329
	Karnataka	8717	7530	5689	4314
	Tamil Nadu	14750	12574	8145	6750
5	Kerala	3450	1780	1499	283
	Pondy	395	395	0	0
	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	11044	9692
	Total SR	42606	35513	36980	29868
/	NORTH-EASTERN REGION				
1	Arunachal Pradesh	143	89	0	0
2	Assam	1227	1069	240	200
3	Manipur	150	76	0	0
	Meghalaya	268	200	214	164
	Mizoram	95	69	8	8
	Nagaland	122	83	22	16
	Tripura	254	157	75	75
	ISGS/IPPs	100	60	2030	1888
	Total NER	2359	1803	2589	2351
		2000	1000	2000	2001
	Total All India	161566	140864	168142	146052