

National Load Despatch Centre Total Transfer Capability for Apr 2024										
Issue Date:Apr 04 2024				Issue Time:18:34:19				Revision No :8		
Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment	
ER-NER	01 Apr to 03 Apr	00:00 to 18:00	1300	60	1240	NA		0		
		18:00 to 22:00	600	60	540	NA		0		
		22:00 to 24:00	1300	60	1240	NA		0		
	04 Apr to 04 Apr	00:00 to 08:00	1300	60	1240	NA		0		
		08:00 to 18:00	1050	60	990	NA		0		
		18:00 to 22:00	250	60	190	NA		0		
		22:00 to 24:00	1050	60	990	NA		0		
	05 Apr to 30 Apr	00:00 to 18:00	1300	60	1240	NA		0		
		18:00 to 22:00	600	60	540	NA		0		
		22:00 to 24:00	1300	60	1240	NA		0		
	ER-NR	01 Apr to 01 Apr	00:00 to 07:00	6700	400	6300	NA		0	
			07:00 to 24:00	6300	400	5900	NA		0	
02 Apr to 05 Apr		00:00 to 24:00	6700	400	6300	NA		0		
06 Apr to 06 Apr		00:00 to 07:00	6700	400	6300	NA		0		
		07:00 to 24:00	6450	400	6050	NA		-250	TTC/ATC Revised due to the shutdown of 765KV-SATNA-VINDHYACHAL(PS)-2	
07 Apr to 30 Apr		00:00 to 24:00	6700	400	6300	NA		0		
ER-SR	01 Apr to 30 Apr	00:00 to 06:00	5750	350	5400	NA		0		
		06:00 to 18:00	5750	350	5400	NA		0		
		18:00 to 24:00	5750	350	5400	NA		0		
ER-W3	01 Apr to 30 Apr	00:00 to 24:00	No limit is being specified.							
ER-WR	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0		
NER-ER	01 Apr to 30 Apr	00:00 to 18:00	3200	60	3140	NA		0		
		18:00 to 22:00	3200	60	3140	NA		0		
		22:00 to 24:00	3200	60	3140	NA		0		
NR-ER	01 Apr to 30 Apr	00:00 to 06:00	4000	300	3700	NA		0		
		06:00 to 18:00	4000	300	3700	NA		0		

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment
		18:00 to 24:00	4000	300	3700	NA		0	
NR-WR	01 Apr to 30 Apr	00:00 to 06:00	6000	500	5500	NA		0	
		06:00 to 18:00	6000	500	5500	NA		0	
		18:00 to 24:00	6000	500	5500	NA		0	
SR-ER	01 Apr to 30 Apr	00:00 to 24:00	No limit is being specified.						
SR-WR	01 Apr to 30 Apr	00:00 to 06:00	6000	650	5350	NA		0	
		06:00 to 18:00	7650	650	7000	NA		0	
		18:00 to 24:00	6000	650	5350	NA		0	
W3 Injection	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0	
W3-ER	01 Apr to 30 Apr	00:00 to 24:00	No limit is being specified.						
WR-ER	01 Apr to 30 Apr	00:00 to 06:00	5500	300	5200	NA		0	
		06:00 to 18:00	5500	300	5200	NA		0	
		18:00 to 24:00	5500	300	5200	NA		0	
WR-NR	01 Apr to 01 Apr	00:00 to 06:00	19200	1000	18200	NA		0	
		06:00 to 07:00	19200	1000	18200	NA		0	
		07:00 to 18:00	18500	1000	17500	NA		0	
		18:00 to 24:00	18500	1000	17500	NA		0	
	02 Apr to 05 Apr	00:00 to 06:00	19200	1000	18200	NA		0	
		06:00 to 18:00	19200	1000	18200	NA		0	
		18:00 to 24:00	19200	1000	18200	NA		0	
	06 Apr to 06 Apr	00:00 to 07:00	19200	1000	18200	NA		0	
		07:00 to 24:00	18700	1000	17700	NA		-500	TTC/ATC Revised due to the shutdown of 765KV-SATNA-VINDHYACHAL(PS)-2
	07 Apr to 30 Apr	00:00 to 24:00	19200	1000	18200	NA		0	
WR-SR	01 Apr to 30 Apr	00:00 to 06:00	16100	650	15450	NA		0	
		06:00 to 08:00	16400	650	15750	NA		0	
		08:00 to 15:00	16100	650	15450	NA		0	
		15:00 to 17:00	16400	650	15750	NA		0	
		17:00 to 24:00	16100	650	15450	NA		0	

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- 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) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units 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.
- Real Time TTC/ATC revisions are uploaded on Grid-India/NLDC "News Update" (Flasher) Section
- HVDC Raigarh-Pugalur has the ability to be overloaded upto 1.1 P.U. Each Bipole can be operated for 2 hours continuously in a span of twelve hours.
- TTC/ATC of WR-SR, ER-SR & SR Import corridor declared based on operation of any one of two Bipole of HVDC Raigarh-Pugalur to 1.1 pu (3300 MW) during morning 6 – 8 hours and other Bipole to 1.1 pu (3300 MW) during during 15 – 17 hours. These assumptions are taken in view of restriction of maximum power order of HVDC Talcher-Kolar upto 1500 MW till **31st May 2024**.

### Simultaneous Import Capability

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment	
ER	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		3088	NA	0		
NER	01 Apr to 03 Apr	00:00 to 18:00	1800	60	1740	446	1294	0		
		18:00 to 22:00	1100	60	1040	446	594	0		
		22:00 to 24:00	1800	60	1740	446	1294	0		
	04 Apr to 04 Apr	00:00 to 08:00	1800	60	1740	446	1294	0		
		08:00 to 18:00	1550	60	1490	446	1044	0		
		18:00 to 22:00	750	60	690	446	244	0		
		22:00 to 24:00	1550	60	1490	446	1044	0		
	05 Apr to 30 Apr	00:00 to 18:00	1800	60	1740	446	1294	0		
		18:00 to 22:00	1100	60	1040	446	594	0		
		22:00 to 24:00	1800	60	1740	446	1294	0		
	NR	01 Apr to 01 Apr	00:00 to 06:00	25900	1400	24500	17344	7156	0	
			06:00 to 07:00	25900	1400	24500	17344	7156	0	
07:00 to 18:00			24800	1400	23400	17344	6056	0		
18:00 to 24:00			24800	1400	23400	17344	6056	0		
02 Apr to 05 Apr		00:00 to 06:00	25900	1400	24500	17344	7156	0		
		06:00 to 18:00	25900	1400	24500	17344	7156	0		
		18:00 to 24:00	25900	1400	24500	17344	7156	0		
06 Apr to 06		00:00 to 07:00	25900	1400	24500	17344	7156	0		

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment
	Apr	07:00 to 24:00	25150	1400	23750	17344	6406	-750	TTC/ATC Revised due to the shutdown of 765KV-SATNA-VINDHYACHAL(PS)-2
	07 Apr to 30 Apr	00:00 to 24:00	25900	1400	24500	17344	7156	0	
SR	01 Apr to 30 Apr	00:00 to 06:00	21850	1000	20850	7101	13749	0	
		06:00 to 08:00	22150	1000	21150	7101	14049	0	
		08:00 to 15:00	21850	1000	20850	7101	13749	0	
		15:00 to 17:00	22150	1000	21150	7101	14049	0	
		17:00 to 24:00	21850	1000	20850	7101	13749	0	
WR	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		7788	NA	0	

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- 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) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units 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.
- Real Time TTC/ATC revisions are uploaded on Grid-India/NLDC "News Update" (Flasher) Section

### Simultaneous Export Capability

Corridor	Date	Time Period(hrs)	Total Transfer Capability(TTC)	Reliability Margin(RM)	Available Transfer Capability(ATC)	Approved GNA(MW)	Margin for T-GNA (MW)	Changes w.r.t. Previous Revision	Comment
ER	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0	
NER	01 Apr to 30 Apr	00:00 to 18:00	3200	60	3140	NA		0	
		18:00 to 22:00	3200	60	3140	NA		0	
		22:00 to 24:00	3200	60	3140	NA		0	
NR	01 Apr to 30 Apr	00:00 to 06:00	6000	500	5500	NA		0	
		06:00 to 18:00	6000	500	5500	NA		0	
		18:00 to 24:00	6000	500	5500	NA		0	
SR	01 Apr to 30 Apr	00:00 to 06:00	5150	650	4500	NA		0	
		06:00 to 18:00	6600	650	5950	NA		0	
		18:00 to 24:00	5150	650	4500	NA		0	
WR	01 Apr to 30 Apr	00:00 to 24:00	NA	NA		NA		0	

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala

- 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) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units 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.
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## Limiting Constraints

Corridor	Constraints	Revisions
WR-NR	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-8
NR-ER	1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka – Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2	0-8
WR-ER	1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka – Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2	0-8
ER-NR	Inter-regional flow pattern towards NR	0-8
WR-SR	Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT	0-8
ER-SR	1. Low Voltage at Gazuwaka (East) Bus.	0-8
SR-WR	a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– A at Raigarh - PS(Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direction (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa	0-8
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-8
NER-ER	a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon- New Siliguri DC	0-5,6-7-8-8
NR_IMPORT	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	0-8
NR_EXPORT	1. Outage of any one of the two circuits from 400 kV Kankroli to 400 kV Zerda shall overload the other circuit [First direct circuit: 400 kV Kankroli - Zerda S/C and Second circuit: 400 kV Kankroli - Bhinmal - Zerda (bypassed at at Bhinmal-PG)]	0-8
NER_IMPORT	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C	0-8
NER_EXPORT	a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon- New Siliguri DC	0-5,6-7-8-8
SR_IMPORT	1. Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT 2. Low Voltage at Gazuwaka (East) Bus	0-8
SR_EXPORT	a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– A at Raigarh - PS(Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direction (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa	0-8

## Revision Summary

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
1	28 Dec	01 Apr to 30 Apr	Change in T-GNA Margin due to grant of additional 174 MW GNA to Uttar Pradesh from outside Northern Region	NR_IMPORT
		01 Apr to 30 Apr	Change in T-GNA Margin due to grant of additional 45 MW GNA to Mizoram from outside North Eastern Region	NER_IMPORT
2	26 Jan	01 Apr to 30 Apr	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	WR-NR
		01 Apr to 30 Apr	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	ER-NR
		01 Apr to 30 Apr	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	WR-SR

Revision	Date Of Revision	Period Of Revision	Reason for Revision/Comment	Corridor Affected
		01 Apr to 30 Apr	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	ER-SR
		01 Apr to 30 Apr	TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR	NR_IMPORT
		01 Apr to 30 Apr	Change in T-GNA Margin due to grant of additional 45 MW GNA to Mizoram from outside North Eastern Region	NER_IMPORT
		01 Apr to 30 Apr	TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB	SR_IMPORT
3	28 Feb	01 Apr to 30 Apr	Revised T-GNA margin due to approval of 500 MW GNA for Andhra Pradesh from Outside Southern Region	SR_IMPORT
4	28 Mar	01 Apr to 30 Apr	Enhancement in TTC due to Bypassing of 400 kV Kankroli - Bhinmal and 400 kV Bhinmal - Zerda at Bhinmal - PG (Temporary Arrangement) & revival of 400 KV Jodhpur-Kankroli-S/C after reconductoring	NR-WR
		01 Apr to 30 Apr	TTC/ATC revised due to operation of any one of two bipole of HVDC Raigarh Pugalur to its overload capacity (1.1 PU) in forward direction (West to South) for 2 hrs.	WR-SR
		01 Apr to 30 Apr	TTC/ATC curtailed due to restriction on power order of HVDC Talcher Kolar by 500 MW till 31st May 2024	ER-SR
		01 Apr to 30 Apr	Revised T-GNA margin due to approval of 80 MW GNA for Daman Diu & Dadra Nagar Haveli from Outside Western Region	WR_IMPORT
		01 Apr to 30 Apr	TTC/ATC revised due to operation of any one of two bipole of HVDC Raigarh Pugalur to its overload capacity (1.1 PU) in forward direction (West to South) for 2 hrs & restriction on power order of HVDC Talcher Kolar by 500 MW till 31st May 2024	SR_IMPORT
		01 Apr to 30 Apr	Enhancement in TTC due to Bypassing of 400 kV Kankroli - Bhinmal and 400 kV Bhinmal - Zerda at Bhinmal - PG (Temporary Arrangement) & revival of 400 KV Jodhpur-Kankroli-S/C after reconductoring	NR_EXPORT
5	30 Mar	01 Apr to 01 Apr	TTC/ATC curtailed due to s/d of 765KV-VINDHYACHAL(PS)-JABALPUR-2	WR-NR
		01 Apr to 01 Apr	TTC/ATC curtailed due to s/d of 765KV-VINDHYACHAL(PS)-JABALPUR-2	ER-NR
		01 Apr to 01 Apr	TTC/ATC curtailed due to s/d of 765KV-VINDHYACHAL(PS)-JABALPUR-2	NR_IMPORT
6	31 Mar	01 Apr to 30 Apr	TTC/ATC revised due to change in LGB	ER-NER
		01 Apr to 30 Apr	TTC/ATC revised due to change in LGB	NER-ER
		01 Apr to 30 Apr	TTC/ATC revised due to change in LGB	NER_IMPORT
		01 Apr to 30 Apr	TTC/ATC revised due to change in LGB	NER_EXPORT
7	02 Apr	04 Apr to 04 Apr	Due to the shutdown of 400 kV Mirza - Bongaigaon	ER-NER
		04 Apr to 04 Apr	Due to the shutdown of 400 kV Mirza - Bongaigaon	NER_IMPORT
8	04 Apr	06 Apr to 06 Apr	TTC/ATC Revised due to the shutdown of 765KV-SATNA-VINDHYACHAL(PS)-2	WR-NR
		06 Apr to 06 Apr	TTC/ATC Revised due to the shutdown of 765KV-SATNA-VINDHYACHAL(PS)-2	ER-NR
		06 Apr to 06 Apr	TTC/ATC Revised due to the shutdown of 765KV-SATNA-VINDHYACHAL(PS)-2	NR_IMPORT

## ASSUMPTIONS IN BASECASE

Month : April'24

S.No.	Name of State/Area	Demand		Generation	
		Non-Solar Peak(MW)	Solar Peak (MW)	Non-Solar Peak(MW)	Solar Peak (MW)
1	NORTHERN REGION				
1	Punjab	7031	7510	4881	4940
2	Haryana	7418	7386	3037	3499
3	Rajasthan	13248	16311	8225	10042
4	Delhi	4405	5136	564	545
5	Uttar Pradesh	22062	18685	10734	11973

6	Uttarakhand	2375	2108	694	463
7	Himachal Pradesh	1985	1936	474	302
8	Jammu & Kashmir	3311	2984	264	206
9	Chandigarh	266	258	0	0
10	ISGS/IPPs	105	105	18638	22308
	Total NR	62206	62419	47511	54278
II	EASTERN REGION				
1	Bihar	5063	4065	464	458
2	Jharkhand	1407	1559	410	365
3	Damodar Valley Corporation	3416	3284	5273	5244
4	Orissa	5269	4919	3608	3496
5	West Bengal	7175	6925	6049	5781
6	Sikkim	116	109	0	0
7	Bhutan	32	50	107	228
8	ISGS/IPPs	928	917	18890	15263
	Total ER	23406	21828	34802	30835
III	WESTERN REGION				
1	Maharashtra	24878	25141	15943	16380
2	Gujarat	18292	17984	6324	6349
3	Madhya Pradesh	15567	16371	6053	6073
4	Chattisgarh	4447	4465	1823	1592
5	DD & DNH	984	867	0	0
6	Goa-WR	660	554	0	0
7	ISGS/IPPs	2463	1937	53004	49159
	Total WR	67290	67320	83147	79553
IV	SOUTHERN REGION				
1	Andhra Pradesh	8005	10681	6952	8203
2	Telangana	10834	14680	5212	6980
3	Karnataka	12118	15214	6579	9390
4	Tamil Nadu	16381	16743	6524	9609
5	Kerala	4221	3432	1510	340
6	Pondy	493	494	0	0
7	Goa-SR	109	109	0	0
8	ISGS/IPPs	0	0	19847	21748
	Total SR	52162	61353	46623	56270
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	166	101	0	0
2	Assam	1441	1146	275	428
3	Manipur	262	139	0	0
4	Meghalaya	471	350	144	12
5	Mizoram	171	141	33	8
6	Nagaland	158	120	15	7
7	Tripura	369	318	190	187
8	ISGS/IPPs	0	0	3308	2557
	Total NER	3038	2314	3964	3200
	Total All India	208065	215177	215925	223878