

POWER GRID CORPORATION OF INDIA LIMITED
EASTERN REGIONAL LOAD DESPATCH CENTER
ATC of Eastern Region for the month of February, 2010

Export Capability

Corridor	Time Period	Total Transfer Capability	Reliability Margin	Scheduling Limit	Long Term Open Access	Available Transfer Capability for STOA
ER - NR	00:00 – 17:00	1900	300	1600	1042	558
	23:00 – 24:00					
	17:00 – 23:00	2300	300	2000	1061	939
ER - WR	00:00 – 17:00	1800	300	1500	404	1096
	23:00 – 24:00					
	17:00 – 23:00	1600	300	1300	403	897
ER - SR	00:00 – 17:00	1500	100	1400	70	1330
	23:00 – 24:00					
	17:00 – 23:00	1500	100	1400	70	1330
ER - NER	00:00 – 17:00	300	50	250	126	124
	23:00 – 24:00					
	17:00 – 23:00	500	50	450	130	320

Import Capability

Corridor	Time Period	Total Transfer Capability	Reliability Margin	Scheduling Limit	Long Term Open Access	Available Transfer Capability for STOA
NR - ER	00:00 – 17:00	*	-	0	0	0
	23:00 – 24:00					
	17:00 – 23:00	450	200	250	0	250
WR - ER	00:00 – 17:00	850	300	550	0	550
	23:00 – 24:00					
	17:00 – 23:00	1100	300	800	0	800
SR - ER	00:00 – 17:00	250	50	200	-70	270
	23:00 – 24:00					
	17:00 – 23:00	1350	50	1300	-70	1370
NER - ER	00:00 – 17:00	600	200	400	0	400
	23:00 – 24:00					
	17:00 – 23:00	450	200	250	0	250

Assumptions :

- a) **400KV Purnea-Muzaffarpur-Gorakhpur line kept single circuit with FSCs at Purnea and**
- b) **Gorakhpur bypassed**
- 400kV Malda - Purnea one circuit in operation**
- 1 (n-1) contingency of Farakka-Malda line has been considered for arriving at ER-NR and ER-NER TTC in off-peak
- 2 (n-1) contingency of Farakka-Kahalgaon line has been considered for arriving at ER-NR TTC in peak
- 3 (n-1) contingency of Farakka-Malda line has been considered for arriving at ER-NER TTC in peak
- 4 (n-1) contingency of Rourkela-Raigarh line has been considered for arriving at ER-WR TTC.
- 5 There is no constraint within ER for exporting power to SR upto the full margin available in ER-SR link.
- 6 (n-1) contingency of Budhipadar - Tarkera line has been considered for arriving at WR-ER TTC in peak
- 7 (n-1) contingency of Farakka-Malda line has been considered for arriving at WR-ER TTC in off-peak
- 8 (n-1) contingency of Farakka-Malda line has been considered for arriving at SR-ER TTC in off-peak
- 9 (n-1) contingency of Talcher-Rourkela line has been considered for arriving at SR-ER TTC in peak
- 10 (n-1) contingency of Farakka-Kahalgaon line has been considered for arriving at NER-ER TTC in off-peak
- 11 Tripping of the lone circuit of Purnea-Muzaffarpur line has been considered for arriving at NER-ER TTC in peak
- 12 Import TTC mentioned are not simultaneous capacity and depends on the flows on the other links
- * Net import from NR in off-peak is physically not possible even after maximizing export to SR and backing down hydro in Orissa.

NTPC availability considered for Feb-10

FSTPP	1400
KHSTPP-I	600
KHSTPP-II	600
TSTPP-I	935
TSTPP-II	1860

200MW Long-term export from DVC to each of DTL (NR) and MP (WR) has been considered

Variation of hydro generation considered during peak and off-peak

Station	Peak	Off-peak
Teesta	340	0
Rangit	40	0
Chukha	80	0
Tala	170	100
Kurichu	0	0
Burla	100	10
Chiplima	20	0
Balimela	150	40
Rengali	150	0
U. Kolab	220	0
Indravati	450	100
Subarnarekha	40	0
Maithon	20	0
Panchet	0	0
PPSP	675	0
Rammam	0	0
TCF	0	0
Jaldhaka	0	0