

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंटोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 6th January 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016
 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 05.01.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05- जनवरी -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 5th January 2023, is available at the NLDC website.

धन्यवाद.

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for pre	evious day ply Position at All India and Regional level				Dat	e of Reporting:	06-Ja	n-2023
		NR	WR	SR	ER	NER	TOTAL	Ī
Demand Met di	uring Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	56470	58807	43643	20970	2650	182540	
Peak Shortage	(MW)	3847	0	900	510	0	5257	
Energy Met (M		1209	1420	1057	425	48	4158	
Hydro Gen (M		114	39	98	31	9	293	
Wind Gen (MU		37	158	79		-	273	
Solar Gen (MU		103.99	45.56	101.80	1.97	0.82	254	
Energy Shortag		39.84	0.00	2.30	2.72	0.01	44.87	
	and Met During the Day (MW) (From NLDC SCADA)	60545	70642	55448	21368	2764	205676	
Time Of Maxin	num Demand Met (From NLDC SCADA)	11:54	10:41	10:31	17:47	17:16	10:41	
B. Frequency	Profile (%)							_
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05	
All India	0.081	0.44	2.48	10.38	13.30	62.96	23.75	1
C Power Sun	ply Position in States				_			-
C. I OHEI BUP	ny i ostaon in otaces	Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day(MW)	maximum Demand(MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	8412	0	154.6	46.4	-0.6	127	0.00
	Harvana	7785	338	150.5	82.5	-0.9	238	3,02
	Rajasthan	14915	1033	295.1	92.0	0.1	197	31.22
	Delhi	5225	0	85.6	78.3	-0.5	261	0.00
NR	UP	20726	143	374.8	131.8	0.5	589	2.61
	Uttarakhand	2273	0	45.0	32.3	1.4	204	2.17
	HP	1942	39	36.2	28.9	0.4	183	0.17
	J&K(UT) & Ladakh(UT)	2951	0	62.1	59.7	-1.3	115	0.65
	Chandigarh	305	0	5.2	5.1	0.0	37	0.00
	Chhattisgarh	4604	0	100.2	49.8	0.1	251	0.00
	Gujarat MP	19149	0	382.3 317.1	178.4	0.1 0.1	658 457	0.00
WR	MP Maharashtra	16728 27209	0	548.7	178.3 194.3	3.0	643	0.00
WK	Goa	676	0	14.4	13.1	0.8	32	0.00
	DNHDDPDCL	1227	0	28.2	28.1	0.1	69	0.00
	AMNSIL	742	0	16.3	10.1	-0.3	301	0.00
	BALCO	518	0	12.3	12.3	0.0	0	0.00
	Andhra Pradesh	10593	0	197.1	82.0	0.6	1239	0.00
	Telangana	13906	0	232.4	114.1	0.9	748	0.00
SR	Karnataka	12914	0	229.7	73.6	-0.6	895	2.30
	Kerala	3826	0	75.7	54.2	0.0	175	0.00
	Tamil Nadu	15281	0	314.0	158.6	-1.1	530	0.00
	Puducherry	390	0	8.5	8.3	-0.2	67	0.00
	Bihar	5520	172	99.1	88.5	-1.8	158	0.26
	DVC	3579	0	74.7	-42.0	-0.4	343	0.00
ER	Jharkhand Odisha	1632 4693	0	30.3 91.7	22.9 26.1	-1.4 -2.9	144 227	2.46 0.00
EK	West Bengal	7021	0	126.8	-4.1	-2.5	292	0.00
	Sikkim	129	0	2.1	2.1	0.0	31	0.00
	Arunachal Pradesh	150	0	2.6	2.5	-0.1	45	0.00
	Assam	1503	0	26,3	20.7	-0.4	79	0.00
	Manipur	247	0	3.5	3.5	0.0	33	0.01
NER	Meghalaya	383	0	7.3	6.3	-0.2	23	0.00
	Mizoram	143	0	2.0	2.0	-0.3	15	0.00

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	Bhutan	Nepal	Bangladesh
Actual (MU)	0.4	-9.2	-21.1
Day Peak (MW)	-72.4	-336.5	-1100.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.5	-169.9	133.8	-162.1	-0.3	0.0
Actual(MU)	190.8	-167.5	144.3	-172.6	-0.3	-5.3
O/D/U/D(MU)	-7.7	2.4	10.5	-10.5	0.0	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5420	11531	7898	2210	744	27802	45
State Sector	9470	15418	7043	2458	98	34486	55
Total	14890	26949	14941	4668	842	62288	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	764	1380	563	625	15	3347	75
Lignite	31	13	37	0	0	80	2
Hydro	114	41	98	31	9	293	7
Nuclear	22	37	69	0	0	128	3
Gas, Naptha & Diesel	13	5	5	0	30	54	1
RES (Wind, Solar, Biomass & Others)	167	205	206	2	1	581	13
Total	1111	1682	978	657	55	4482	100
Share of RES in total generation (%)	15.03	12.21	21.02	0.31	1.51	12.95	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	27.27	16.83	38.13	4.97	18.14	22.34	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.058

Based on State Max Demands

1,058

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 06-Jan-2023

							Date of Reporting:	06-Jan-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	rt/Export of ER (THO OF CITCUIT	mux import (mm)	Max Export (M 11)	import (site)		1121 (110)
1mpor	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	:	0	297	0.0	7.0 12.5	-7.0
4	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	1	0	855 427	0.0	6.2	-12.5 -6.2
5		GAYA-BALIA	1	0	743	0.0	11.7 3.1	-11.7
7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	51 0	173 209	0.0	3.7	-3.1 -3.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	761	0.0	11.8	-11.8
9 10	400 kV 400 kV	PATNA-BALIA NAUBATPUR-BALIA	2	0	618 657	0.0	11.5 12.0	-11.5 -12.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	373	0.0	5.3	-5.3
12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2	0	532 368	0.0	8.6 5.5	-8.6 -5.5
14		SAHUPURI-KARAMNASA	1	25	134	0.0	1.3	-3.3
15 16		NAGAR UNTARI-RIHAND	1	0 25	0	0.0	0.0	0.0
17		GARWAH-RIHAND KARMANASA-SAHUPURI	1	4	45	0.4	0.0	0.4
18		KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
Impor	rt/Export of ER (With WD)			ER-NR	0.4	100.1	-99.7
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1018	218	6.2	0.0	6.2
			2	421	919	0.0	4.4	-4.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH						
3	765 kV	JHARSUGUDA-DURG	2	0	486	0.0	8.1	-8.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	657	0.0	8.3	-8.3
5	400 kV	RANCHI-SIPAT	2	82	303	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	164	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	121	105	0.0	0.0	0.0
					ER-WR	6.2	25.0	-18.8
	rt/Export of ER ((50	0.0	10.0	100
2		JEYPORE-GAZUWAKA B/B	2	0	658 1985	0.0	10.9 38.7	-10.9 -38.7
3		TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2	0	3232	0.0	55.7	-38.7 -55.7
4		TALCHER-I/C	2	158	887	0.0	6.6	-6.6
5		BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
			-		ER-SR	0.0	105.3	-105.3
	rt/Export of ER (1=-			0.0	
1		BINAGURI-BONGAIGAON	2	175	7	2.2	0.0	2.2
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2	612 53	0	8.7 0.8	0.0	8.7 0.8
3 1	220 K V	ALII URDUAR-SALAKATI		33	ER-NER	11.7	0.0	11.7
Impor	rt/Export of NER	(With NR)				***		****
1		BISWANATH CHARIALI-AGRA	2	472	469	11.7	0.0	11.7
_					NER-NR	11.7	0.0	11.7
	rt/Export of WR (With NR) CHAMPA-KURUKSHETRA		1 0	1500	0.0	261	261
2	HVDC HVDC	VINDHYACHAL B/B	2	0 136	1522 101	0.0 2.9	36.1 0.5	-36.1 2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	22.8	0.0	22.8
4	765 kV	GWALIOR-AGRA	2	0	2194	0.0	27.7	-27.7
5	765 kV	GWALIOR-PHAGI	2	0	1849	0.0	28.1	-28.1
6	765 kV	JABALPUR-ORAI	2	0	1197	0.0	28.4	-28.4
7		GWALIOR-ORAI	1	840	0	15.7	0.0	15.7
9		SATNA-ORAI BANASKANTHA-CHITORGARH	2	0 1253	1224 1086	0.0 9.5	21.1 7.1	-21.1 2.4
10		VINDHYACHAL-VARANASI	2	0	2863	0.0	38.8	-38.8
11		ZERDA-KANKROLI	1	227	172	0.9	0.0	0.9
12		ZERDA -BHINMAL	1	548	293	1.6	0.0	1.6
13		VINDHYACHAL -RIHAND	1 2	967	0	22.0	0.0 3.5	22.0
14 15		RAPP-SHUJALPUR BHANPURA-RANPUR	2	390	678 0	1.8 0.0	0.0	-1.8 0.0
16		BHANPURA-MORAK	i	0	30	0.0	1.6	-1.6
17		MEHGAON-AURAIYA	î	110	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	72	12	1.4	0.0	1.4
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0			
20	132 kV	RAJGHAT-LALITPUR	2	0		0.0	0.0	0.0
Imper	rt/Export of WR (·	0 WD ND	0.0	0.0	0.0
1		(With SR)		·	0 WR-NR			0.0
2		BHADRAWATI B/B	-		WR-NR	0.0 79.2	0.0	0.0 0.0 -113.6
	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	- 2	980	WR-NR 809 4000	0.0 79.2 5.4 0.0	0.0 192.8 6.5 25.4	0.0 0.0 -113.6 -1.2 -25.4
3	HVDC HVDC 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	2	980 0 531	WR-NR 809 4000 2290	0.0 79.2 5.4 0.0 0.6	0.0 192.8 6.5 25.4 16.8	0.0 0.0 -113.6 -1.2 -25.4 -16.2
4	HVDC HVDC 765 kV 765 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	980 0 531 0	809 4000 2290 3853	0.0 79.2 5.4 0.0 0.6 0.0	0.0 192.8 6.5 25.4 16.8 53.2	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2
5	HVDC HVDC 765 kV 765 kV 400 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2	980 0 531 0 1368	809 4000 2290 3853 0	0.0 79.2 5.4 0.0 0.6 0.0 21.6	0.0 192.8 6.5 25.4 16.8 53.2 0.0	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6
4	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2 2 2	980 0 531 0	809 4000 2290 3853	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0	0.0 192.8 6.5 25.4 16.8 53.2	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6 0.0
4 5 6	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2 2 2	980 0 531 0 1368	WR-NR 809 4000 2290 3853 0 0 0 73	0.0 79.2 5.4 0.0 0.6 0.0 21.6	0.0 192.8 6.5 25.4 16.8 53.2 0.0	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 2 2 2	980 0 531 0 1368 0	WR-NR 809 4000 2290 3853 0 0	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6 0.0
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2	980 0 531 0 1368 0 0	WR-NR 809 4000 2290 3853 0 0 0 73	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 0.0	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 0.0	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 2 1 1 1	980 0 531 0 1368 0 0	809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 0.0	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0 -1.6 -72.7 (+ve)/Export(-ve) Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 2 2 2 1 1 TERNATIONAL EX Line 400ky MANGDECHRICALI	980 0 0 5.31 0 1368 0 0 0 CHANGES Name	WR-NR 809 4000 2290 3853 0 0 0 73	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 0.0 1.6 29.2 Min (MW)	0.0 192.8 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW)	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6 0.0 0.0 1.6 -72.7 (+ve)/Export(-ve)
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	2 2 2 2 1 1 1 TERNATIONAL EX' Line 400ky MangdechHiu-All	980 0 0 5.31 0 1368 0 0 0 CHANGES Name	809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 0.0 1.6 29.2	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0 -1.6 -72.7 (+ve)/Export(-ve) Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 2 2 2 1 1 1 TERNATIONAL EX Line 408N MANGDECHHUAL 408N MANGDECHH	980 0 1531 0 1368 0 0 0 CHANGES Name PURDUAR 1,283 LE. mm MANGBECHU HEP 4 (& 400KY MAJEASE:	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW)	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW)	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6 0.0 0.0 1.6 -72.7 (+ve)/Export(-ve) Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region	2 2 2 2 1 1 1 TERNATIONAL EX: GRAV MANUBICHICANI ALIPHADIOA RECEIPT (6 498N VIALA BINAGURI 1-4 498N V	980 0 1531 0 1368 0 0 0 CHANGES Name PURDUAR 1,283 LE. mm MANGBECHU HEP 4 (& 400KY MAJEASE:	WR-NR 809 4000 2290 3853 0 0 0 WR-SR Max (MW)	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 0.0 1.6 29.2 Min (MW)	0.0 192.8 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW)	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0 -1.6 -72.7 +ve/Export(-ve) Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	2 2 2 2 1 1 1 1 TERNATIONAL EX: SORV MANGDETHING RECEPT (64-180AW) BINAGURA LE BINAGURA L	980 980 0 531 0 1368 0 0 0 0 CHANGES Name PURDIAR 1,283 Le. mMANGDECHU HEP 4 (& 4000 VMALBASE.	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW)	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW)	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 1.6 -72.7 -(+ve)/Export(-ve) Energy Exchange Auth -1.49 -1.49
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	980 980 0 531 0 1368 0 0 0 0 CHANGES Name PURDIAR 1,283 Le. mMANGDECHU HEP 4 (& 4000 VMALBASE.	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 0.0 1.6 29.2 Min (MW)	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW)	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 21.6 0.0 0.0 1.6 -72.7 (+ve)/Export(-ve) Energy Exchange
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	2 2 2 2 1 1 1 1 FERNATIONAL EX: Line 608K MANGBECHHU ALI 4180MW) 409K VTAL-8BNAGURI LE 60410WW) 209K VTAL-8BNAGURI LE 200K CHIKHABBRPAKA BRPAKA) LE BIRPAKA E	980 0 531 0 1368 0 0 1368 0 0 0 CHANGES Name PERRUAR 1,283 Lc. om MANGDECHU HEP 4 (& 400kV MALEASE- ECEPT (from LTIUKHA HEP	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 0	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0	0.0 192.8 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 1.6 -72.7 -(+ve)/Export(-ve) Energy Exchange Auth -1.49 -1.49
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	980 0 531 0 1368 0 0 1368 0 0 0 CHANGES Name PERRUAR 1,283 Lc. om MANGDECHU HEP 4 (& 400kV MALEASE- ECEPT (from LTIUKHA HEP	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW)	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW)	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 1.6 -72.7 -(+ve)/Export(-ve) Energy Exchange Auth -1.49 -1.49
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	980 0 1 5.31 0 1.368 0 0 0 0 CHANGES Name PURBUAR 1,28.3 Le. sm MANGBECHU HEP 46.4 400KV MALBASE ECEPT (from TALA HEP 1R3 (8.250KV MALBASE) ECEPT (from CHUKHA HEP	WR-NR 809 4000 2290 3853 0 0 73 WR-SR Max (MW) 0 241	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0 -17	0.0 192.8 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 -1.6 -72.7
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER	2 2 2 2 1 1 1 1 FERNATIONAL EX: Line 608K MANGBECHHU ALI 4180MW) 409K VTAL-8BNAGURI LE 60410WW) 209K VTAL-8BNAGURI LE 200K CHIKHABBRPAKA BRPAKA) LE BIRPAKA E	980 0 1 5.31 0 1.368 0 0 0 0 CHANGES Name PURBUAR 1,28.3 Le. sm MANGBECHU HEP 46.4 400KV MALBASE ECEPT (from TALA HEP 1R3 (8.250KV MALBASE) ECEPT (from CHUKHA HEP	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 0	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW)	0.0 192.8 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0 1.6 -72.7 (+ve)/Export(-ve) Energy Exchange Annual Control Control -1.49 -1.23
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER	2 2 2 2 1 1 1 TERNATIONAL EX: Line 300kV MANGDECHINGHILL ALBURDUAR RECEBT (6-4180AW) BINAGURI LE-BINAGURI LE-BINA	980 980 0 531 0 1368 0 0 0 CHANGES Name PURDUAR 1,283 Le. mMANGDECHU HEP 4 (& 400K) MALBASE - ECERT (from TALA HEP) 13 (& 250K) MALBASE - CEPT (from CHUKHA HEP)	WR-NR 809 4000 2290 3853 0 0 73 WR-SR Max (MW) 0 241	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0 -17	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 -1.6 -72.7
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER	2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	980 980 0 531 0 1368 0 0 0 CHANGES Name PURDUAR 1,283 Le. mMANGDECHU HEP 4 (& 400K) MALBASE - ECERT (from TALA HEP) 13 (& 250K) MALBASE - CEPT (from CHUKHA HEP)	WR-NR 809 4000 2290 3853 0 0 73 WR-SR Max (MW) 0 241	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0 -17	0.0 192.8 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 -1.6 -72.7
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER NER	2 2 2 2 1 1 1 1 IERNATIONAL EX Line 6008 MANOEDECHICARI ALIPURDUAR RECEIPT (In 4180MW) 6008 V TALA-BINAGURI LE 604170MW) 1008 V TALA-BINAGURI LE 604170MW) 1220W CHURA-BIRPARA 1122W GELEPHU-SALAKAT 1122W MAHENDRANGAR 1124W MAHENDRANGAR 1124W MAHENDRANGAR 1124W MAHENDRANGAR	980 0 0 531 0 1368 0 0 0 1368 0 0 0 CHANGES Name 0 0 CHANGES 14 (6 4004 MALEASE 16 (6 4004 MALEASE 16 (2 2004 MALEASE 17 (17 (17 (17 (17 (17 (17 (17 (17 (17 (WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 241 0 22 13 -76	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0	0.0 192.8 6.5 6.5 25.4 16.8 53.2 0.0 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113 0 17	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -16.2 -53.2 -21.6 0.0 0.0 -72.7
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER NER	2 2 2 2 1 1 1 TERNATIONAL EX: Line 300kV MANGDECHINGHILL ALBURDUAR RECEBT (6-4180AW) BINAGURI LE-BINAGURI LE-BINA	980 0 0 531 0 1368 0 0 0 1368 0 0 0 CHANGES Name 0 0 CHANGES 14 (6 4004 MALEASE 16 (6 4004 MALEASE 16 (2 2004 MALEASE 17 (17 (17 (17 (17 (17 (17 (17 (17 (17 (WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 0 241 0 22	0.0 79.2 5.4 0.0 0.5 0.0 21.6 0.0 0.0 1.6 29.2 Min (MW) 0 -17 -17	0.0 192.8 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 -1.6 -72.7 -+ve)/Export(-ve) Energy Exchange (Mth) -1.49 -2.72 -1.23 -4.00 -0.01
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER NER NER	2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400KV MANGDECHHU-ALI ALIPURDUAR RECEPT (n 400KV TALA-BINAGURI L2 400KV TALA-BINAGURI L3 40KV TALA-BINAGURI L3	980 0 1368 0 1368 0 0 0 CHANGES Name PERBUAR 1,283 Le. mm MANGBECHU HEP 4 (& 400KV MALEASE ECEPT (from TALA HEP 182 (& 220KV MALEASE TOTALIANAEPURINHPC) HAR)	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW)	0.0 192.8 192.8 6.5 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 113 0 -62 -80	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 1.6 -72.7 (+ve)/Export(-ve) Energy Exchange Annual Control Control -1.49 -1.23 -1.23 -1.49 -1.49 -1.49 -1.49 -1.93
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER NER	2 2 2 2 1 1 1 1 IERNATIONAL EX Line 6008 MANOEDECHICARI ALIPURDUAR RECEIPT (In 4180MW) 6008 V TALA-BINAGURI LE 604170MW) 1008 V TALA-BINAGURI LE 604170MW) 1220W CHURA-BIRPARA 1122W GELEPHU-SALAKAT 1122W MAHENDRANGAR 1124W MAHENDRANGAR 1124W MAHENDRANGAR 1124W MAHENDRANGAR	980 0 1368 0 1368 0 0 0 CHANGES Name PERBUAR 1,283 Le. mm MANGBECHU HEP 4 (& 400KV MALEASE ECEPT (from TALA HEP 182 (& 220KV MALEASE TOTALIANAEPURINHPC) HAR)	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 241 0 22 13 -76	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0	0.0 192.8 6.5 6.5 25.4 16.8 53.2 0.0 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113 0 17	0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -16.2 -53.2 -21.6 0.0 0.0 -72.7
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER NER NER	2 2 2 2 1 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 1 1 1 TERNATIONAL EX 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	980 0 1368 0 1368 0 0 1368 0 0 0 CHANGES Name PURBUAR 1,283 Le. m MANGDECHU HEP 41 & 4000 NALBASE. EECEPT (from TALA HEP 18.3 (& 2200 NALBASE. EEPT (from CHUKHA HEP	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW)	0.0 192.8 6.5 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113 17 0 -62 -80	0.0 0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0 1.6 -72.7 (+ve)/Export(-ve) Energy Exchange -1.49 -1.23 -1.23 -1.23 -1.49 -1.49 -1.93
4 5 6 7	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER ER NER NER NER	2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400KV MANGDECHHU-ALI ALIPURDUAR RECEPT (n 400KV TALA-BINAGURI L2 400KV TALA-BINAGURI L3 40KV TALA-BINAGURI L3	980 0 1368 0 1368 0 0 1368 0 0 0 CHANGES Name PURBUAR 1,283 Le. m MANGDECHU HEP 41 & 4000 NALBASE. EECEPT (from TALA HEP 18.3 (& 2200 NALBASE. EEPT (from CHUKHA HEP	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW)	0.0 192.8 192.8 6.5 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 113 0 -62 -80	0.0 0.0 0.0 -113.6 -1.2 -25.4 -16.2 -53.2 -21.6 0.0 0.0 1.6 -72.7 (+ve)/Export(-ve) Energy Exchange -1.49 -1.23 -1.23 -1.23 -1.49 -1.49 -1.93
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 206 kV 220 kV 220 kV 220 kV State	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER NER NER NER	2 2 2 2 1 1 1 1 IERNATIONAL EX Line 6008 MANODECHIU-ALI ALIPURDUAR RECEIPT (In 4008V MANODECHIU-ALI ALIPURDUAR RECEIPT (In 4008V MALA-BINAGURI 12-450MW) 1008V MALA-BINAGURI 16-450MW) 1028V GELEPHU-SALAKAI 1328V MOTANGA-RANGIA 1328V MAHENDRANGA-RANGIA 13400 MAHENDRANGA-RA	980 0 531 0 1368 0 0 1368 0 0 0 CHANGES Name 10 10 CHANGES Name 11 12 14 & 4000 MALBASE 15 16 17 18 18 18 18 18 18 18 18 18	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 0 241 0 22 13 -76 104	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0 -17 -17 0 -59	0.0 192.8 6.5 25.4 16.8 5.3.2 0.0 0.0 101.9 Import Avg (MW) 0 113 0 -62 -80 -243	0.0 0.0 113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 -1.6 -72.7 -+ve)/Export(-ve) Energy Exchange (MID) -1.49 -1.23 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.583
4 5 6 7 8	HVDC HVDC 765 kV 765 kV 400 kV 220 kV 220 kV 220 kV	BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER NER NER NER NER	2 2 2 2 1 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 1 TERNATIONAL EX 1 1 1 1 1 TERNATIONAL EX 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	980 0 531 0 1368 0 0 1368 0 0 0 CHANGES Name 10 10 CHANGES Name 11 12 14 & 4000 MALBASE 15 16 17 18 18 18 18 18 18 18 18 18	WR-NR 809 4000 2290 3853 0 0 0 73 WR-SR Max (MW) 0 241 0 22 13 -76 104	0.0 79.2 5.4 0.0 0.6 0.0 21.6 0.0 1.6 29.2 Min (MW) 0 -17 -17 0 -59	0.0 192.8 6.5 6.5 25.4 16.8 53.2 0.0 0.0 0.0 101.9 Import Avg (MW) 0 113 17 0 -62 -80	0.0 0.0 113.6 -1.2 -25.4 -16.2 -53.2 -1.6 0.0 0.0 -1.6 -72.7 -+ve)/Export(-ve) Energy Exchange (MID) -1.49 -1.23 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.49 -1.583