

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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 18th April 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
- 2. 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 17.04.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-अप्रैल-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 17th April 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day	
A. Power Supply Position at All India and Regional level	

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	59936	62760	51325	27455	3096	204572
Peak Shortage (MW)	879	177	0	479	57	1592
Energy Met (MU)	1263	1509	1287	605	57	4721
Hydro Gen (MU)	160	47	89	44	9	350
Wind Gen (MU)	27	76	40			143
Solar Gen (MU)*	139.44	67.58	129.62	3.34	1.02	341
Energy Shortage (MU)	11.54	3.94	0.00	5.26	1.79	22.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60685	69436	62500	27928	3157	210829
Time Of Maximum Demand Met (From NLDC SCADA)	20:41	15:15	14:59	21:34	19:01	15:00

B. Frequency P	rofile (%)						
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.079	0.73	1.81	9.66	12.20	59.19	28.61

		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	7922	0	159.7	46.1	-0.7	158	0.23
	Haryana	8186	0	155.4	87.6	-0.5	251	3.08
	Rajasthan	13385	0	281.3	69.6	-1.3	243	2.67
	Delhi	5059	0	101.1	94.8	-3.2	103	0.00
NR	UP	22211	235	425.5	151.1	-0.2	779	3.05
	Uttarakhand	2228	0	42.4	26.6	0.5	124	0.89
	HP	1602	0	31.5	17.2	-0.2	77	0.00
	J&K(UT) & Ladakh(UT)	2793	135	57.5	41.3	2.0	580	1.62
	Chandigarh	248	0	4.9	4.9	0.0	26	0.00
	Railways_NR ISTS	175	0	3.8	3.1	0.8	54	0.00
	Chhattisgarh	5574	7	128.1	74.5	-0.2	322	2.61
	Gujarat	21166	0	456.1	183.7	0.9	1055	0.00
	MP	12244	0	266.2	143.1	-2.7	569	0.00
WR	Maharashtra	27899	0	584.9	191.8	1.0	1213	1.33
	Goa	743	0	15.0	15.3	-0.8	73	0.00
	DNHDDPDCL	1266	0	29.1	29.2	-0.1	102	0.00
	AMNSIL	819	0	17.7	8.1	-0.1	245	0.00
	BALCO	517	0	12.3	12.5	-0.2	0	0.00
	Andhra Pradesh	12093	0	244.4	97.7	-1.8	821	0.00
	Telangana	12708	0	250.6	112.4	0.7	751	0.00
SR	Karnataka	15790	0	301.3	120.8	1.8	958	0.00
	Kerala	4894	0	100.6	69.3	0.7	313	0.00
	Tamil Nadu	18563	0	380.5	238.2	-0.5	683	0.00
	Puducherry	427	0	9.5	9.4	-0.6	31	0.00
	Bihar	6143	209	127.2	115.9	-1.8	218	1.35
	DVC	3547	0	77.1	-45.2	0.5	285	0.00
	Jharkhand	1652	238	35.2	29.3	-2.8	134	3.91
ER	Odisha	6370	0	128.8	48.8	-2.1	345	0.00
	West Bengal	11438	0	234.8	93.8	-1.4	359	0.00
	Sikkim	99	0	1.6	1.1	0.4	68	0.00
	Arunachal Pradesh	154	0	2.6	2.4	0.1	54	0.00
	Assam	1969	0	35.6	28.2	0.7	331	0.46
	Manipur	204	26	2.8	2.6	0.2	38	0.09
NER	Meghalaya	300	38	5.3	3.3	0,6	79	1.24
	Mizoram	124	0	2.0	1.4	-0.1	9	0.00
	N14	146	0	2.4	2.6	0.2	21	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.2	-13.3	-24.9	-18.3
Day Peak (MW)	246.0	-752.7	-1102.0	-794.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	95.8	-224.7	191.1	-65.0	2.8	0.0
Actual(MU)	71.7	-212.1	200.0	-70.9	5.9	-5.5
O/D/U/D(MU)	-24.1	12.6	8.9	-5.9	3.1	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1280	8679	3708	1450	425	15542	45
State Sector	6590	8175	3296	970	229	19260	55
Total	7870	16854	7004	2420	654	34802	100

G. Sourcewise generation (Gross) (MU)

Nagaland

	NR	WR	SR	ER	NER	All India	% Share
Coal	836	1572	744	717	17	3886	76
Lignite	16	15	65	0	0	96	2
Hydro	160	47	89	44	9	350	7
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	34	39	6	0	31	111	2
RES (Wind, Solar, Biomass & Others)	186	145	201	4	1	537	10
Total	1263	1854	1175	765	59	5115	100
CI APPOLLATION OF COLUMN							ı
Share of RES in total generation (%)	14.75	7.82	17.08	0.52	1.74	10.49	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.78	12.27	30.61	6.28	17.31	19.97	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.061
Based on State Max Demands	1.096

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.

*Note: All peneration MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 18-Apr-2023

						Date of Reporting:	18-Apr-2023
Sl No Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER		or Circuit	port ()	areas exapple (arres)	import (MC)		ner (mu)
1 HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC	PUSAULI B/B		2	0	0.0	0.0	0.0
3 765 kV	GAYA-VARANASI	2	209	450	0.0	2.5	-2.5
4 765 kV 5 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1 1	0	379 546	0.0 0.0	5.6 7.3	-5.6 -7.3
6 400 kV	PUSAULI-VARANASI	î	4	68	0.0	0.6	-0.6
7 400 kV	PUSAULI -ALLAHABAD	1	63	11	0.7	0.0 0.2	0.7
8 400 kV 9 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	485 23	341 419	0.0	6.2	-0.2 -6.2
10 400 kV	NAUBATPUR-BALIA	2	64	424	0.0	6.0	-6.0
11 400 kV	BIHARSHARIFF-BALIA	2	266	127	1.2	0.0	1.2
12 400 kV 13 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 7	173 217	353 190	0.0 0.0	3.8 0.5	-3.8 -0.5
14 220 kV	SAHUPURI-KARAMNASA	1 1	0	220	0.0	3.5	-3.5
15 132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16 132 kV 17 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	25 0	0 24	0.5 0.0	0.0	0.5
17 132 KV 18 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
				ER-NR	2.5	36.0	-33.6
Import/Export of ER	(With WR)						
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2108	0	30.3	0.0	30.3
2 765 kV 3 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2	1113 0	595 751	9.2	0.0 10.1	9.2 -10.1
4 400 kV	JHARSUGUDA-RAIGARH	4	0	598	0.0	7.9	-7.9
5 400 kV	RANCHI-SIPAT	2	191	235	0.1	0.0	0.1
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	1.8	-1.8
7 220 kV	BUDHIPADAR-KORBA	1 2	88	15 ER-WR	40.6	19.9	0.9 20.7
Import/Export of ER	(With SR)			LIK WIN	40.0	1717	20.7
1 HVDC	JEYPORE-GAZUWAKA B/B	2	0	654	0.0	15.1	-15.1
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	39.6	-39.6
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM	2	269	2893 0	0.0	52.0	-52.0 5.0
4 400 kV 5 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	269 0	0	5.0 0.0	0.0	5.0 0.0
			-	ER-SR	0.0	106.7	-106.7
Import/Export of ER							
1 400 kV	BINAGURI-BONGAIGAON	2	106	63	0.9	0.2	0.7
2 400 kV 3 220 kV	ALIPURDUAR-BONGAIGAON	2 2	361	92	3.5	0.0	3.5
3 220 kV	ALIPURDUAR-SALAKATI	2	62	ER-NER	0.6 5.0	0.0	0.6 4.7
Import/Export of NEI	R (With NR)			LK-TER	3.0		7./
	BISWANATH CHARIALI-AGRA	2	483	0	10.0	0.0	10.0
				NER-NR	10.0	0.0	10.0
Import/Export of WR	(With NR)						
1 HVDC	CHAMPA-KURUKSHETRA	2	0	1497	0.0	35.1 0.0	-35.1
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	- ;	448 0	0 788	10.3	10.8	10.3 -10.8
4 765 kV	GWALIOR-AGRA	2	348	1687	0.0	18.5	-10.8
5 765 kV	GWALIOR-PHAGI	2	524	1392	1.7	16.6	-14.9
6 765 kV 7 765 kV	JABALPUR-ORAI	2	41	690	0.0	12.3	-12.3
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	812 0	0 994	12.0 0.0	0.0 17.5	12.0 -17.5
9 765 kV	BANASKANTHA-CHITORGARH	2	2557	0	34.4	0.0	34.4
10 765 kV	VINDHYACHAL-VARANASI	2 2	2557 0	2936	34.4 0.0	41.7	-41.7
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2 2	2557 0 438	2936 56	34.4 0.0 6.1	41.7 0.0	-41.7 6.1
10 765 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA -BHINMAL	2 2 1 1	2557 0	2936	34.4 0.0	41.7	-41.7 6.1 8.8
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA -BHINMAL VINDHYACHAL -RIHAND RAPP-SHUJALPUR	2 2 1 1 1 2	2557 0 438 721 980 658	2936 56 0 0 230	34.4 0.0 6.1 8.8 22.0 4.8	41.7 0.0 0.0 0.0 1.5	-41.7 6.1 8.8 22.0 3.3
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	2 2 1 1 1 2	2557 0 438 721 980 658	2936 56 0 0 230	34.4 0.0 6.1 8.8 22.0 4.8 0.0	41.7 0.0 0.0 0.0 1.5 0.0	-41.7 6.1 8.8 22.0 3.3 0.0
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA - BHINMAL VINDHYACHAL - RHAND RAPP-SHUJAL-PUR BHANFURA-RANPUR BHANFURA-MORAK	2 2 1 1 1 2 2 1	2557 0 438 721 980 658 0	2936 56 0 0 230 0 30	34.4 0.0 6.1 8.8 22.0 4.8 0.0	41.7 0.0 0.0 0.0 1.5 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-BHIAND RAPP-SHUALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAYA	2 2 1 1 1 2 2 1 1 1	2557 0 438 721 980 658	2936 56 0 0 230	34.4 0.0 6.1 8.8 22.0 4.8 0.0	41.7 0.0 0.0 0.0 0.0 1.5 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV	VINDHYACHAL-VARANANI ZERDA-KANKROLI ZERDA-SHINMAL VINDHYACHAL-RIHAND RAPP-SHIJALPUR BHANPURA-RAPUR BHANPURA-RAPUR BHANPURA-MORAK MEHGAON-AURANYA MALANPUR-AURANYA MALANPUR-AURANYA GWALIORS-WAMI MADHOPUR	2 2 1 1 1 2 1 1 1 1 1 1	2557 0 438 721 980 658 0 0 114 96	2936 56 0 0 230 0 30 0 0	34.4 0.0 6.1 8.8 22.0 4.8 0.0 0.0 1.5 1.2	41.7 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV 18 220 kV	VINDHYACHAL-VARANSI ZERDA-KANKROLI ZERDA AHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANYIRA-RANPUR BHANYIRA-RANPUR BHANYIRA-RANPUR MEHAON-AURAIYA MALANPUR-AURAIYA	2 2 1 1 1 2 1 1 1 1 1 1 1 1 2 2	2557 0 438 721 980 658 0 0 114	2936 56 0 230 0 230 0 0 0 0 0 0 0 0 0 0 0 0	34.4 0.0 6.1 8.8 22.0 4.8 0.0 1.5 1.2 0.0	41.7 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 0.0
10 765 kV 11 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV 18 220 kV 19 132 kV 20 132 kV 20 132 kV 132 kV 1400 kV 15 15 15 15 15 15 15 1	VINDHYACHAL-VARANANI ZERDA-KANKOLI ZERDA-SHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURANYA MALANPUR-AURANYA MALANPUR-AURANYA GWALIOR-SHAWAM MADHOPUR RAJGHAT-LALITPUR	2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 2 2	2557 0 438 721 980 658 0 0 114 96	2936 56 0 0 230 0 30 0 0	34.4 0.0 6.1 8.8 22.0 4.8 0.0 0.0 1.5 1.2	41.7 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2
10	VINDHYACHAL-VARANASI ZERDA-KANKROLI ZERDA-BHINMAL VINDHYACHAL-RIHAND RAPP-SHUAL-PUR BHANPUR-RANPUR BHANPUR-RANPUR BHANPUR-AUGRAN JALANPUR-AUGRAN JALANPUR-AUGRAYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR (With SR)	2 2 1 1 1 2 2 1 1 1 1 1 2 2	2557 0 438 721 980 658 0 0 114 96 0	2936 56 0 0 230 0 30 0 0 WR-NR	34,4 0,0 6,1 8,8 22,0 4,8 0,0 0,0 1,5 1,2 0,0 0,0 0,0	41.7 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 0.0 -51.1
10 765 kV 11 400 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV 18 220 kV 20 132 kV 20 132 kV 20 142 kV 20 143 kV 20 kV	VINDHYACHAL-VARANAN ZERDA-KANKROLI ZERDA-SHINMAL VINDHYACHAL-RIHAND RAPP-SHIGALPUR BHANPURA-RAPUR BHANPURA-RAPUR BHANPURA-MORAK MEHGAON-ALRAHVA MALASPUR-ALRAHVA (GWALIOR-SWAWI MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATI RB	2 2 1 1 1 1 2 2 1 1 1 1 1 2 2	2557 0 438 721 980 658 0 0 114 96	2936 56 0 0 230 0 230 0 0 0 WR-NR	34.4 0.0 6.1 8.8 22.0 9.0 9.0 1.5 1.2 9.0 0.0 102.9	41.7 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 0.0
10 765 kV 11 400 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV 18 220 kV 20 132 kV 20 132 kV 20 132 kV 20 132 kV 20 140 kV 20	VINDBYACHAL-VARANAN ZERDA-KANKROLI ZERDA-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNAL BHANPIRA-BHINDB BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR BHANPIRA-BANPIR GWALIORS-WAM IMADHOPUR RAJGHAT-JALITPUR (With SIR) BHADRAWATI BB RAJGRAP-PUGALUR SOLAPUR-RAJGHUR	2 2 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1	2557 0 438 721 980 658 0 0 1114 96 0 0 0	2936 56 0 0 230 230 0 0 0 0 WR-NR	34.4 0.0 6.1 8.8 22.0 0.0 0.0 1.5 1.2 0.0 0.0 102.9	41.7 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.3 82.6 82.6 14.7	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 -14.3 -82.6 -14.7
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 15 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROLI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RIHAND RAPP-SHIJALPUR BHANFURA-BANFUR BHANFURA-BANFUR BHANFURA-BANFUR BHANFURA-BANFUR BHANFURA-BANFUR BHANFURA-BANFUR BHANFURA-BANFUR CIWALIOR-SAWAH MADHOPUR RAJGHAT-LALITPUR (With SR) BHADRAWATLBB- RAJGRAFIT-CALUR SOLAPUR-BAUGHUR SOLAPUR-BAUGHUR SOLAPUR-BAUGHUR WARDHA-NIZAMBAD	2 2 2 1 1 1 2 2 1 1 1 1 1 2 2 2 1 1 1 2 2 2 2 2 3 1 1 1 1	2557 0 438 721 980 658 0 0 114 96 0 0	2936 56 0 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139	34.4 0.0 6.1 8.8 22.0 0.0 1.5 1.2 0.0 1.0 1.2 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0	41.7 0.9 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 9.0 -51.1 -14.3 -82.6 -14.7 -51.0
10 765 kV 11 400 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 15 220 kV 16 220 kV 17 220 kV 18 220 kV 20 132 kV 20 132 kV 20 132 kV 20 132 kV 20 15 kV 20 15 kV 20 20 kV 20 20 kV 20 20 kV	VINDHYACHAL-VARANANI ZERDA-KANKROLI ZERDA-SHINMAL VINDHYACHAL-RIHAND RAPP-SHUJALPUR BHANPURA-RAPPUR BHANPURA-RAPPUR BHANPURA-MORAK MEHGADN-AURAHVA MALANPUR-AURAHVA GWALIOR-SWAWI MADHOPUR RAJGHAT-LALITPUR (WITH SIR) BHADRAWATI BB RAJGRAWATI	2 2 1 1 1 2 1 1 1 1 1 1 1 2 2	2557 0 438 721 980 658 0 0 1114 96 0 0 0	2936 56 0 0 230 230 0 0 0 0 WR-NR	34.4 0.0 6.1 8.8 22.0 0.0 0.0 1.5 1.2 0.0 0.0 102.9	41.7 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.3 82.6 82.6 14.7	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 -14.3 -82.6 -14.7
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10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 100 kV 10	VINDBYACHAL-VARANAN ZERDA-RANKROLI ZERDA-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNAL BHANPURA-BHINNAL BHANPURA-BHINNAL BHANPURA-BHINNAL BHANPURA-BHINNAL BHANPURA-BHINNAL BHANPURA-BHINNAL BHANPURA-BHINNAL GWALIDRA-BARATAA MALAPPUR-AURAHYA GWALIDRA-BARATAA MALAPPUR-AURAHYA GWALIDRA-BARATAA BHADRAWATI BR RAIGARI-PUGALUR SOL AFUR RAIGHR WARDHA-NIZAMBAD KOL BAPUR-BAGUR KOL BAPUR-BAUBHAND JELDEM-AMBEWADI	TERNATIONAL EX	2557 0 438 721 980 658 0 114 96 0 0 0 0 0 CHANGES Name	2936 56 0 0 230 30 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 0 122	34.4 0.0 6.1 8.8 22.0 0.0 1.5 1.2 0.0 1.5 1.2 0.0 0.0 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.3 82.6 14.7 51.0 0.0 0.0 0.0 0.0 162.5 Import(441.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 0.0 -5.1.1 -14.3 -14.3 -14.7 -19.6 0.0 0.0 0.0 -1.40.4 +ve/Export(-ve)
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10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 100 kV 10	VINDBYACHAL-VARANAN ZERDA-KANKROLI ZERDA-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNA RAPP-BHUALIPUR BHANPURA-MORAK MEHAGNA-KANPUR BHANPURA-MORAK MEHAGNA-KARAYA MALAPPUR-AURAYA (GWALIDRA-WAT MAHAPPUR-AURAYA (GWALIDRA-WAT MAHAPPUR-AURAYA BHANPUR-AURAYA WHISHAMAN THE RAIGARI-PUGALUR SOLAFUR-RACHIR WARDHA-NIZAMBAD KOLAFUR-CHIKODI FONDA-MBENADI SELDEM-AMBENADI IN Region	TERNATIONAL EXC Line 400kV MANGDECHHU-A ALIPURDUAR RECEIPT	2557 0 438 721 980 658 0 0 111 110 0 0 0 0 0 CHANGES Name CHANGES Name Name CHANGES Name	2936 56 0 0 230 230 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.3 82.6 14.7 51.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 -51.1 -14.3 -82.6 -14.7 -51.0 -12.6 -14.7 -51.0 -14.4 -14.4 -+ve)/Export(-ve) Energy Exchange (MII)
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 132 kV 19 132 kV 19 132 kV 10 132 kV 10 10 10 10 10 10 10 1	VINDBYACHAL-VARANAN ZERDA-RANKROJI ZERDA-SHINNAL YINDBYACHAL-BIHAND RAPP-SHIJALPUR BHANFURA-BANFUR (WYHÉ SER BHADRA-BANFUR BHADRA-BANFUR BALGBHEFFCAULUR BALGBHEFFCAULUR SOLAPUR-BALGHUR SOLAPUR-BALGHUR SOLAPUR-BALGHUR KOHAPUR-BALGHUR KOHAPUR-BALGHUR KOHAPUR-BANFUR BOLAPUR-BALGHUR KOHAPUR-BANFUR BOLAPUR-BALGHUR KOHAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR	TERNATIONAL EXC Line 400kV MANGDECHHU-ALIPURDUAR RECEIPI HEP 4°180MV 400kV TALA-BINAGURI	2557 0 438 428 721 980 658 0 0 1114 96 0 0 0 0 0 0 1064 0 0 0 1064 0 0 0 1064 0 1064 0 1064 1064	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.1 14.1 14.1 14.1 14.2 51.0 0.0 0.0 0.0 162.5 Import(Avg (MW)	441.7 6.1 8.8 22.0 3.3 0.0 1.2 1.2 2.0 0.0 1.2 1.2 1.2 1.3 1.4 1.4.3 8.2.6 1.4.7 1.4.1 1.4.3 1.4.3 8.2.6 1.4.4 1.4.7 1.4.4 1.4.4 1.4.7 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.3
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 132 kV 19 132 kV 19 132 kV 10 132 kV 10 10 10 10 10 10 10 1	VINDBYACHAL-VARANAN ZERDA-KANKROLI ZERDA-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNAL VINDBYACHAL-BHINNA RAPP-BHUALIPUR BHANPURA-MORAK MEHAGNA-KANPUR BHANPURA-MORAK MEHAGNA-KARAYA MALAPPUR-AURAYA (GWALIDRA-WAT MAHAPPUR-AURAYA (GWALIDRA-WAT MAHAPPUR-AURAYA BHANPUR-AURAYA WHISHAMAN THE RAIGARI-PUGALUR SOLAFUR-RACHIR WARDHA-NIZAMBAD KOLAFUR-CHIKODI FONDA-MBENADI SELDEM-AMBENADI IN Region	TERNATIONAL EXC Line 400kV MANGDECHHU- 400kV MANGDECHHU- 410kV MANGDECHHU- 400kV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI	2557 0 438 721 980 658 0 0 114 96 0 0 0 0 0 0 CHANGES Name CHANGES Name CHANGES Name 1,2,4,7,4,400kV 1,2,4,7,4,40kV 1,2,4,4,4,40kV 1,2,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	2936 56 0 0 230 230 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.3 82.6 14.7 51.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 1.5 1.2 0.0 -51.1 -14.3 -82.6 -14.7 -51.0 -12.6 -14.7 -51.0 -14.4 -14.4 -+ve)/Export(-ve) Energy Exchange (MII)
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAH-PUR RHANPURA-RANFUR RHANPURA-RANFUR MINANTERA-RANFUR MINANTERA-RANFUR MINANTERA-RANFUR (WHI OR SAWAH MADHOPUR RAJGRAT-LALITPUR (WITH SR) HHADRAWATH BB RAJGRAT-PUGALUR SOLAPUR-RAJGHUR SOLAPUR-RAJGHUR KOJ-HAPUR-RUBGH KOJ-HAPUR-RUBG	TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4° 180MW, 400kV TALA-BINAGURI MALBASE - BINAGURI RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	2557 0 438 721 980 658 0 0 111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1064 0 0 0 0 0 0 0 0 1064 0 1064 0 1064 0 1064 0 1064 0 1064 0 1090 0	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 129 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	41.7 0.0 0.0 0.0 0.0 1.5 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.3 14.1 14.3 14.1 14.5 14.7 15.1.0 0.0 0.0 0.0 162.5 Import(Avg (MW)	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 2 143 2.26 147 140.4 4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 132 kV 19 132 kV 19 132 kV 10 132 kV 10 10 10 10 10 10 10 1	VINDBYACHAL-VARANAN ZERDA-RANKROJI ZERDA-SHINNAL YINDBYACHAL-BIHAND RAPP-SHIJALPUR BHANFURA-BANFUR (WYHÉ SER BHADRA-BANFUR BHADRA-BANFUR BALGBHEFFCAULUR BALGBHEFFCAULUR SOLAPUR-BALGHUR SOLAPUR-BALGHUR SOLAPUR-BALGHUR KOHAPUR-BALGHUR KOHAPUR-BALGHUR KOHAPUR-BANFUR BOLAPUR-BALGHUR KOHAPUR-BANFUR BOLAPUR-BALGHUR KOHAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR-BANFUR BOLAPUR BOLAPUR-BANFUR BOLAPUR	TERNATIONAL EXC JOBEV MANGDECHHUZ- ALIPURDUAR RECEIPI HEP 44 1800AVW 4000V TALA-BINAGURI MALBASE - BINAGURI RECEIPI (From TALA H 2200V CHUKHA-BIRPAI MALBASE - BIRPARA) I MALBASE - BIRPARA J	2557 0 438 721 980 658 0 0 1114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 154.1 14.1 14.1 14.1 14.1 14.2 51.0 0.0 0.0 0.0 162.5 Import(Avg (MW)	441.7 6.1 8.8 22.0 3.3 0.0 1.2 1.2 2.0 0.0 1.2 1.2 1.2 1.3 1.4 1.4.3 8.2.6 1.4.7 1.4.1 1.4.3 1.4.3 8.2.6 1.4.4 1.4.7 1.4.4 1.4.4 1.4.7 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.4 1.4.3
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAH-PUR RHANPURA-RANFUR RHANPURA-RANFUR MINANTERA-RANFUR MINANTERA-RANFUR MINANTERA-RANFUR (WHI OR SAWAH MADHOPUR RAJGRAT-LALITPUR (WITH SR) HHADRAWATH BB RAJGRAT-PUGALUR SOLAPUR-RAJGHUR SOLAPUR-RAJGHUR KOJ-HAPUR-RUBGH KOJ-HAPUR-RUBG	TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI HEP 4° 180MW, 400kV TALA-BINAGURI MALBASE - BINAGURI RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	2557 0 438 721 980 658 0 0 1114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 129 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	41.7 0.0 0.0 0.0 0.0 1.5 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.3 14.1 14.3 14.1 14.5 14.7 15.1.0 0.0 0.0 0.0 162.5 Import(Avg (MW)	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 2 143 2.26 147 140.4 4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAH-PUR RHANPURA-RANFUR RHANPURA-RANFUR MINANTERA-RANFUR MINANTERA-RANFUR MINANTERA-RANFUR (WHI OR SAWAH MADHOPUR RAJGRAT-LALITPUR (WITH SR) HHADRAWATH BB RAJGRAT-PUGALUR SOLAPUR-RAJGHUR SOLAPUR-RAJGHUR KOJ-HAPUR-RUBGH KOJ-HAPUR-RUBG	TERNATIONAL EXC JOBEV MANGDECHHUZ- ALIPURDUAR RECEIPI HEP 44 1800AVW 4000V TALA-BINAGURI MALBASE - BINAGURI RECEIPI (From TALA H 2200V CHUKHA-BIRPAI MALBASE - BIRPARA) I MALBASE - BIRPARA J	2557 0 438 721 980 658 0 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 129 WR-SR	34.4 0.0 6.1 8.8 22.0 0.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	41.7 0.0 0.0 0.0 0.0 1.5 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.3 14.1 14.3 14.1 14.5 14.7 15.1.0 0.0 0.0 0.0 162.5 Import(Avg (MW)	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 2 143 2.26 147 140.4 4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDHYACHAL-VARANASI ZERDA-RAKKROLI ZERDA-BHINNAL VINDHYACHAL-BHIAND RAFP-SHUJALPUR BHANFUR ARNER BHANFUR ARNER BHANFUR ARNER BHANFUR ARNER GWALIOR-SWAM AMDHOPUR RAFF-SHUJALPUR BHANFUR ALTER GWALIOR-SWAM AMDHOPUR RAFGHAT-LALITFUR (WITH STR) BHANGWATT ER BHANGWATT E	TERNATIONAL EX. Line 400K MANGDECHHU- ALPURUUAR RECEIPT HEP 45 NOM WI 400K TAL-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGURI MALBASE - BIRAGURI (from CHUKHA BIRRA) (from CHUKHA HEP 4*8)	2557 0 438 721 980 658 0 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34.4 0.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	44.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 5.1.1 14.1 14.3 182.6 14.7 5.1.0 0.0 0.0 0.0 0.0 0.0 14.0 14.0 14.0
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-RANKROJI ZERDA-BHINNAL VINDBYACHAL-BHINAD RAPP-SHUJALPUR RHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR COVALIOR SAWAI MADROPUR RAGGHER-LALITPUR WHIS TR BHADRAWATI BR RAGGHEP-CAULR SOLAPUR-RAUGHUR SOLAPUR-RAUGHUR KOHAPUR-RAUGHUR KOHAPUR-RAUGHUR KOHAPUR-RUDGH KOHAPUR-RUDGH KOHAPUR-RUDGH KOHAPUR-RUDGH ROHAPUR-RUDGH ROHAPUR-RU	TERNATIONAL EXC Line 400RV MANGEECHHU- 400RV MANGEECHHU- HEF 4*180MWV 400RV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGURI MALBASE - BIRAGURI 420RV HUKHA-BIRRA HOMO CHUKHA-BIRRA 132RV GELEPHU-SALAF	2557 0 438 721 980 458 721 980 658 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR Max (MW) 158 222	34.4 0.0 6.1 8.8 22.0 0.0 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.3 14.3 14.7 151.0 0.0 0.0 0.0 162.5 Import(Avg (MW) 60 130	441.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 -14.3 -14.3 -14.7 -14.0 0.0 0.0 0.0 -140.4 +ve)/Export(-ve) Energy Exchange (MII) 1.43 3.11 -1.75
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 16 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDHYACHAL-VARANASI ZERDA-RAKKROLI ZERDA-BHINNAL VINDHYACHAL-BHIAND RAFP-SHUJALPUR BHANFUR ARNER BHANFUR ARNER BHANFUR ARNER BHANFUR ARNER GWALIOR-SWAM AMDHOPUR RAFF-SHUJALPUR BHANFUR ALTER GWALIOR-SWAM AMDHOPUR RAFGHAT-LALITFUR (WITH STR) BHANGWATT ER BHANGWATT E	TERNATIONAL EX. Line 400K MANGDECHHU- ALPURUUAR RECEIPT HEP 45 NOM WI 400K TAL-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGURI MALBASE - BIRAGURI (from CHUKHA BIRRA) (from CHUKHA HEP 4*8)	2557 0 438 721 980 458 721 980 658 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34.4 0.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	44.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 5.1.1 14.1 14.3 182.6 14.7 5.1.0 0.0 0.0 0.0 0.0 0.0 14.0 14.0 14.0
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 17 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAH-PUR RHANPURA-RANFUR RHANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR (WHI SIR) HADRAWATH BB RAGGRAFI-PUR RHADRAWATH BB RAGGRAFI-PUR SOLAPUR-RAUGHUR SOLAPUR-RAUGHUR MARDHANIZAMBAD KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI ROJA-MIBEWADI IN REGION ER ER ER NER	TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURULAR RECEIPI 400kV 14LX-BINAGURI 400kV 14LX-BINAGURI 400kV 14LX-BINAGURI 400kV 14LX-BINAGURI 400kV 14LX-BINAGURI 60kV 1	2557 0 438 721 980 658 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 129 WR-SR Max (MW) 158 222 -109	34.4 0.0 6.1 8.8 22.0 1.2 2.0 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.5 0.0 0.0 -51.1 143 -143 144.4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11 -1.75 0.03
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 17 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-RANKROJI ZERDA-BHINNAL VINDBYACHAL-BHINAD RAPP-SHUJALPUR RHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR COVALIOR SAWAI MADROPUR RAGGHER-LALITPUR WHIS TR BHADRAWATI BR RAGGHEP-CAULR SOLAPUR-RAUGHUR SOLAPUR-RAUGHUR KOHAPUR-RAUGHUR KOHAPUR-RAUGHUR KOHAPUR-RUDGH KOHAPUR-RUDGH KOHAPUR-RUDGH KOHAPUR-RUDGH ROHAPUR-RUDGH ROHAPUR-RU	TERNATIONAL EXC Line 400RV MANGEECHHU- 400RV MANGEECHHU- HEF 4*180MWV 400RV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGURI MALBASE - BIRAGURI 420RV HUKHA-BIRRA HOMO CHUKHA-BIRRA 132RV GELEPHU-SALAF	2557 0 438 721 980 658 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR Max (MW) 158 222	34.4 0.0 6.1 8.8 22.0 0.0 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.3 14.3 14.7 151.0 0.0 0.0 0.0 162.5 Import(Avg (MW) 60 130	-41.7 6.1 8.8 22.0 3.3 0.0 1.5 1.2 0.0 0.0 -51.1 -51.1 -14.3 -14.7 -14.0 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 17 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAH-PUR RHANPURA-RANFUR RHANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR (WHI SIR) HADRAWATH BB RAGGRAFI-PUR RHADRAWATH BB RAGGRAFI-PUR SOLAPUR-RAUGHUR SOLAPUR-RAUGHUR MARDHANIZAMBAD KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI ROJA-MIBEWADI IN REGION ER ER ER NER	TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI 400kV 1412-BINAGURI MALBASE - BINAGURI RECEIPI (1700-1414-M MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI 132kV GELEPHU-SALAF 132kV MOTANGA-RANG	2557 0 438 721 980 658 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 129 WR-SR Max (MW) 158 222 -109	34.4 0.0 6.1 8.8 22.0 1.2 2.0 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.5 0.0 0.0 -51.1 143 -143 144.4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11 -1.75 0.03
10 765 kV 11 409 kV 12 400 kV 12 400 kV 13 400 kV 14 400 kV 14 400 kV 17 220 kV 17 220 kV 19 132 kV 19 19 19 19 19 19 19 1	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAH-PUR RHANPURA-RANFUR RHANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR MIANPURA-RANFUR (WHI SIR) HADRAWATH BB RAGGRAFI-PUR RHADRAWATH BB RAGGRAFI-PUR SOLAPUR-RAUGHUR SOLAPUR-RAUGHUR MARDHANIZAMBAD KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI KOJ-HAPUR-RUDGI ROJA-MIBEWADI IN REGION ER ER ER NER	TERNATIONAL EXC Line 400kV MANGDECHHU- ALIPURDUAR RECEIPI 400kV 1412-BINAGURI MALBASE - BINAGURI RECEIPI (1700-1414-M MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI 132kV GELEPHU-SALAF 132kV MOTANGA-RANG	2557 0 438 721 980 655 658 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 129 WR-SR Max (MW) 158 222 -109	34.4 0.0 6.1 8.8 22.0 1.2 2.0 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 8.22.0 3.3 3.0 0.0 1.5 1.2 0.0 0.0 1.5 1.1 1.2 0.0 0.0 1.5 1.1 1.43 1.43 1.40.4 1.40.4 1.43 3.11 1.75 0.03
10	VINDHYACHAL-VARANANI ZERDA-RAKKROLI ZERDA-RAKKROLI ZERDA-BHINNAL VINDHYACHAL-BHIAND RAFP-SHUJALPUR BHANPUR-RAKHROLI BHANPUR-RAKHRAN MERGANN-RAKHRAN MERGAN-RAKHRAN MERGAN M	TERNATIONAL EXC Line 1000V MANGDECHHU- 1000V MANGDECHHU- 1000V TAL AND 1000V TAL	2557 0 438 721 980 655 658 0 0 114 96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 0 WR-SR Max (MW) 158 222 -109 -8	34.4 0.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 -51.1 -14.3 -14.7 -51.0 19.6 0.0 0.0 0.0 -51.1 -14.3 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.48 -1.49 -1.40,4 -1.40
10	VINDHYACHAL-VARANASI ZERDA-RAKKROJI ZERDA-BHINMAL VINDHYACHAL-BHIAND RAFF-SHIJALPUR RHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-MORRAN VINDHYACHAL-BHIAND RAFF-SHIJALPUR RHANFURA-RANFUR BHANFURA-RANFUR GWALIOR-SAWAH MADHOPUR RAGGAT-LALITPUR (With SR) BHADRAWATLBB RAGGATI-PUCALUR SOLAPUR-RAGGHYA SOLAPUR-RAGHYA KOLHAPUR-CHINDD PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI IN REGION ER ER ER ER NER NER	TERNATIONAL EXC Line 400RV MANGEETHIU- 400RV MANGEETHIU- 400RV MANGEETHIU- HEF 4* 1800AWY 400RV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGRI 132RV HUKHA-BIRRA 132RV GELEPHU-SALAI 132RV MOTANGA-RAN 132RV MOTANGA-RAN 132RV MAHENDRANAG NEPAL IMPORT (FROM	2557 9 438 721 980 438 721 980 658 0 114 96 0 0 104 96 0 0 0 0 0 0 40 0 0 0 0 0 0 CHANGES Name ALIPURDIAR 1,283 Le. (from MANGBCHU 1,2,3 (& 400kV 0) Le. BINAGURI 1,2,4 (& 200kV 0, Le. BINAGURI 2,4 (& 200kV 0, Le. BINAGURI 1,3,4 (& 200kV 0, Le. BINAGURI 1,4,4 (& 200kV 0, Le. BINAGURI 1,5,4 (& 200kV 0, Le. BINA	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR Max (MW) 158 222 -109 -8 -41 -78	34.4 0.0 6.1 8.8 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
10	VINDHYACHAL-VARANANI ZERDA-RAKKROLI ZERDA-RAKKROLI ZERDA-BHINNAL VINDHYACHAL-BHIAND RAFP-SHUJALPUR BHANPUR-RAKHROLI BHANPUR-RAKHRAN MERGANN-RAKHRAN MERGAN-RAKHRAN MERGAN M	TERNATIONAL EXC Line 1000V MANGDECHHU- 1000V MANGDECHHU- 1000V TAL AND 1000V TAL	2557 9 438 721 980 438 721 980 658 0 114 96 0 0 104 96 0 0 0 0 0 0 40 0 0 0 0 0 0 CHANGES Name ALIPURDIAR 1,283 Le. (from MANGBCHU 1,2,3 (& 400kV 0) Le. BINAGURI 1,2,4 (& 200kV 0, Le. BINAGURI 2,4 (& 200kV 0, Le. BINAGURI 1,3,4 (& 200kV 0, Le. BINAGURI 1,4,4 (& 200kV 0, Le. BINAGURI 1,5,4 (& 200kV 0, Le. BINA	2936 56 0 0 230 0 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 0 WR-SR Max (MW) 158 222 -109 -8	34.4 0.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 1.5 1.2 0.0 0.0 0.0 -51.1 -14.3 -14.7 -51.0 19.6 0.0 0.0 0.0 -51.1 -14.3 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.47 -1.48 -1.49 -1.40,4 -1.40
10	VINDBYACHAL-VARANASI ZERDA-RAKROJI ZERDA-RAKROJI ZERDA-BHINMAL VINDBYACHAL-BHINAD RAFT-SHIJAH-PIR BHANPICAR-BANFIK BHANPICAR-BANFIK MARANPICAR-BANFIK MARANPICAR-BANFIK MARANPICAR-BANFIK MARANPICAR-BANFIK WIEHGAON-AURANYA MARANPICAR-BANFIK WIEHGAON-AURANYA MARANPICAR-BANFIK WIEHGAON-AURANYA MARANPICAR-BANFIK BHADRAWATI BB RAGGRIF-PICAGUR SOLAPTER-BACHUR WARDHA-NIZ-BANFIK MARIDAN-BANFIK MARIDAN-BANFIK MARIDAN-BANFIK BOLHAFIK-CHIRODI TONDA-AMBEWADI IN REGION ER ER ER NER ER NER NER NER	TERNATIONAL EXC Line 4000V MANGDECHHU- ALIPURDUAR RECEIPI 10015 TAV MINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI 1204V CHUKHA-BIRPA 1324V GELEPHU-SALAH 1324V MOTANGA-RANG 1324V MAHENDRANAG NEPAL IMPORT (FROM 4006V DHALKEBAR-MU	2557 0 438 721 980 438 721 980 658 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 1319 0 0 129 WR-SR Max (MW) 158 222 -109 -8 -41 -78 -139	34.4 0.0 6.1 8.8 22.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 8.22.0 3.3 3.3 3.0 0.0 0.0 1.1.2 0.0 0.0 1.2 1.2 0.0 0.0 -51.1 14.3 -14.3 -14.7 19.6 0.0 0.0 2.5 1.4 14.0 19.6 0.0 3.3 3.1 1.5 1.7 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
10	VINDHYACHAL-VARANASI ZERDA-RAKKROJI ZERDA-BHINMAL VINDHYACHAL-BHIAND RAFF-SHIJALPUR RHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-MORRAN VINDHYACHAL-BHIAND RAFF-SHIJALPUR RHANFURA-RANFUR BHANFURA-RANFUR GWALIOR-SAWAH MADHOPUR RAGGAT-LALITPUR (With SR) BHADRAWATLBB RAGGATI-PUCALUR SOLAPUR-RAGGHYA SOLAPUR-RAGHYA KOLHAPUR-CHINDD PONDA-AMBEWADI XELDEM-AMBEWADI XELDEM-AMBEWADI IN REGION ER ER ER ER NER NER	TERNATIONAL EXC Line 400RV MANGEETHIU- 400RV MANGEETHIU- 400RV MANGEETHIU- HEF 4* 1800AWY 400RV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGRI 132RV HUKHA-BIRRA 132RV GELEPHU-SALAI 132RV MOTANGA-RAN 132RV MOTANGA-RAN 132RV MAHENDRANAG NEPAL IMPORT (FROM	2557 0 438 721 980 438 721 980 658 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR Max (MW) 158 222 -109 -8 -41 -78	34.4 0.0 6.1 8.8 22.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
10	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAHPUR BHANDERA-BRANAK MARINGRAWAR MALANTERA-BRANAK MEHARON-AURATYA GWALORS-BAWAI MADHOPUR RAGGRAP-LALITPUR (With SR) BHADRAWATI BB BRAGGRAP-PICALUR SOLATUR-RACCHUR WARDHANEL-BRACHUR WARDHANEL-BRACHUR WARDHANEL-BRACHUR MARINGRAWATI BB RAGRARI-PICALUR SOLATUR-RACCHUR WARDHANEL-BRACHUR WARDHANEL-BRACHUR MARINGRAWATI BB RAGRARI-PICALUR SOLATUR-RACCHUR WARDHANEL-BRACHUR FOR HARDHANEL-BRACHUR MARINGRAWATI IN REGION ER ER ER ER ER ER ER ER ER E	TERNATIONAL EXC Line 4000V MANGDECHHU- ALIPURDUAR RECEIPI 10015 TAV MINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI 1204V CHUKHA-BIRPA 1324V GELEPHU-SALAH 1324V MOTANGA-RANG 1324V MAHENDRANAG NEPAL IMPORT (FROM 4006V DHALKEBAR-MU	2557 0 438 721 980 438 721 980 658 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 1319 0 0 129 WR-SR Max (MW) 158 222 -109 -8 -41 -78 -139	34.4 0.0 6.1 8.8 22.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 3.3 3.0 0.0 1.5 1.2 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 143 -143 -147 -140.4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11 -1.75 0.03 -0.68 -1.55 -1.84
10	VINDHYACHAL-VARANASI ZERDA-RANKROJI ZERDA-RANKROJI ZERDA-BHINNAL VINDHYACHAL-BHIAND RAPP-SHUJALPUR RHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR RHANFURA-RANFUR RHANFURA-RANFUR (WHIS SR) BHADRA-RANFUR RHANFURA-RANFUR RHAGHAL-LALITPUR RHAGHAL-LALITPUR RHAGHAL-LALITPUR RHAGHAL-LALITPUR RHAGHAL-RANFUR RHAGHAL-RANFUR RHAGHAL-RANFUR SOLAPUR-RACHUR ROHAPUR-RHAGHUR ROHAPUR-RHAGHUR ROHAPUR-RHAGHUR RER ER ER ER ER RER ER ER ER	TERNATIONAL EXC Line 4000V MANGDECHHU- ALIPURDUAR RECEIPI 10015 TAV MINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI 1204V CHUKHA-BIRPA 1324V GELEPHU-SALAH 1324V MOTANGA-RANG 1324V MAHENDRANAG NEPAL IMPORT (FROM 4006V DHALKEBAR-MU	2557 0 438 721 980 438 721 980 658 0 0 114 96 0 0 0 0 0 0 0 40 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 1319 0 0 129 WR-SR Max (MW) 158 222 -109 -8 -41 -78 -139	34.4 0.0 6.1 8.8 22.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 3.3 3.0 0.0 1.5 1.2 0.0 0.0 1.5 1.2 0.0 0.0 -51.1 143 -143 -147 -140.4 +ve)/Export(-ve) Energy Exchange (MI) 1.43 3.11 -1.75 0.03 -0.68 -1.55 -1.84
10	VINDBYACHAL-VARANASI ZERDA-RANKROJI ZERDA-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL VINDBYACHAL-BHINMAL RAPPARIJAHPUR BHANDERA-BRANAK MARINGRAWAR MALANTERA-BRANAK MEHARON-AURATYA GWALORS-BAWAI MADHOPUR RAGGRAP-LALITPUR (With SR) BHADRAWATI BB BRAGGRAP-PICALUR SOLATUR-RACCHUR WARDHANEL-BRACHUR WARDHANEL-BRACHUR WARDHANEL-BRACHUR MARINGRAWATI BB RAGRARI-PICALUR SOLATUR-RACCHUR WARDHANEL-BRACHUR WARDHANEL-BRACHUR MARINGRAWATI BB RAGRARI-PICALUR SOLATUR-RACCHUR WARDHANEL-BRACHUR FOR HARDHANEL-BRACHUR MARINGRAWATI IN REGION ER ER ER ER ER ER ER ER ER E	TERNATIONAL EXC Line 100x MANGDECHHU- 100x MANGDECHHU- 100x MANGDECHHU- 100x MANGDECHHU- 100x 1AL PURDUAR RECEIPI 100x 1AL AWA 100x 1AL AWA 100x 1AL AWA 132kV GLEPHU-SALAF 132kV MOTANGA-RANG 132kV MAHENDRANAG 132kV MAHENDRANAG 100x	2557 0 438 721 980 438 721 980 658 0 0 114 96 0 0 0 0 0 0 0 40 0 0 0 0 0 0 0 0 0 0 0	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR Max (MW) 158 222 -109 -8 -41 -78 -139 -536	34.4 0.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.7 151.0 0.0 0.0 0.0 162.5 Avg (MW) 60 130 -73 1 -28 -65 -77	44.7 6.1 8.8 8.22.0 3.3 9.0 9.0 9.0 1.2 9.0 9.0 1.2 9.0 9.0 1.2 1.2 9.0 9.0 9.0 1.2 1.2 9.0 9.0 1.2 1.2 9.0 9.0 1.2 1.2 1.2 9.0 9.0 1.2 1.2 1.4.3 1.4.3 1.4.3 1.4.3 1.4.3 1.4.3 1.4.3 1.4.3 1.4.4 1.4.5 9.94 9.94
10	VINDHYACHAL-VARANASI ZERDA-RAKROJI ZERDA-BHINMAL VINDHYACHAL-BHIAND RAPP-SHIJALPUR RHANPURA-BANPUR RER ER ER NER RE LER RE LER LER	TERNATIONAL EXC Line 400RV MANGEECHHU- 400RV MANGEECHHU- HEF 4º 180MW) 400RV TALA-BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BINAGURI MALBASE - BIRAGRI 132RV FIUKHA-BIRRA 132RV GELEPHU-SALAF 132RV GELEPHU-SALAF 132RV MOTANGA-RAN 132RV MOTANGA-RAN 400RV DHALKEBAR-MI BHERAMARA B/B HVDG 400RV GODDA_TPS-RAF	2557	2936 56 0 0 0 230 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 129 WR-SR Max (MW) 158 222 -109 -8 -41 -78 -139 -536	34.4 0.0 6.1 8.8 22.0 1.5 1.2 0.0 0.0 1.5 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	41.7 6.1 8.8 22.0 3.3 0.0 0.0 0.0 0.0 1.5 1.5 0.0 0.0 -51.1 -14.3 -14.3 -14.5 -14.7 -14.5 -14.7 -14.5 -14.7
10	VINDHYACHAL-VARANASI ZERDA-RANKROJI ZERDA-RANKROJI ZERDA-BHINNAL VINDHYACHAL-BHIAND RAPP-SHUJALPUR RHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR BHANFURA-RANFUR RHANFURA-RANFUR RHANFURA-RANFUR (WHIS SR) BHADRA-RANFUR RHANFURA-RANFUR RHAGHAL-LALITPUR RHAGHAL-LALITPUR RHAGHAL-LALITPUR RHAGHAL-LALITPUR RHAGHAL-RANFUR RHAGHAL-RANFUR RHAGHAL-RANFUR SOLAPUR-RACHUR ROHAPUR-RHAGHUR ROHAPUR-RHAGHUR ROHAPUR-RHAGHUR RER ER ER ER ER RER ER ER ER	TERNATIONAL EXC Line 100x MANGDECHHU- 100x MANGDECHHU- 100x MANGDECHHU- 100x MANGDECHHU- 100x 1AL PURDUAR RECEIPI 100x 1AL AWA 100x 1AL AWA 100x 1AL AWA 132kV GLEPHU-SALAF 132kV MOTANGA-RANG 132kV MAHENDRANAG 132kV MAHENDRANAG 100x	2557	2936 56 0 0 0 230 0 0 0 0 0 WR-NR 1016 6016 1731 3139 0 0 0 WR-SR Max (MW) 158 222 -109 -8 -41 -78 -139 -536	34.4 0.0 6.1 8.8 22.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	41.7 0.0 0.0 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 1.54.1 14.3 14.7 151.0 0.0 0.0 0.0 162.5 Avg (MW) 60 130 -73 1 -28 -65 -77	-41.7 6.1 8.8 22.0 3.3 0.0 1.2 1.2 0.0 1.2 0.0 0.0 -51.1 -14.3 -14.7 -51.0 19.6 0.0 0.0 -51.1 -14.3 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -14.7 -15.1 -14.7 -15.1 -14.7 -15.1