

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

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

दिनांक: 14th May 2022

Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

1. 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 13.05.2022.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-मई-2022 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 13th May 2022, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day Date of Reporting: 14-May-2022

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	64177	59932	42655	22275	2593	191632
Peak Shortage (MW)	430	0	0	152	0	582
Energy Met (MU)	1511	1470	946	528	47	4502
Hydro Gen (MU)	302	40	65	66	21	494
Wind Gen (MU)	32	165	151	-	-	347
Solar Gen (MU)*	106.56	49.32	89.10	5.09	0.24	250
Energy Shortage (MU)	1.99	0.00	0.50	3.46	0.00	5.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68988	65115	44190	23777	2691	199663
Time Of Maximum Demand Met (From NLDC SCADA)	22:53	15:44	15:30	00:00	19:08	14:35

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	0.022	0.00	0.00	1.47	1.47	80.59	17.94

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		dav(MW)	Demand(MW)	(MU)	(MU)	(MU)	(MW)	(MU)
	Punjab	10825	0	231.6	134.5	-0.7	161	0.00
	Haryana	9559	0	205.2	133.7	-0.9	164	0.00
	Rajasthan	14557	0	300.4	92.9	0.5	340	0.65
	Delhi	6781	0	135.8	123.3	-2.2	198	0.00
NR	UP	24699	0	498.9	218.8	2.2	581	1.34
	Uttarakhand	2322	0	45.9	23.4	0.7	222	0.00
	HP	1570	0	32.8	4.2	-0.5	68	0.00
	J&K(UT) & Ladakh(UT)	2261	0	53,2	33.1	-0.4	146	0.00
	Chandigarh	356	0	6.8	7.2	-0.3	17	0.00
	Chhattisgarh	4660	0	108.5	56.6	-2.1	346	0.00
	Gujarat	20226	0	436.4	204.6	-2.7	657	0.00
	MP	12089	0	278.5	147.8	0.0	416	0.00
WR	Maharashtra	26133	0	585.8	179.2	-1.4	835	0.00
	Goa	662	0	14.8	14.8	0.0	26	0.00
	DD	337	0	7.6	7.8	-0.2	49	0.00
	DNH	849	0	19.7	19.9	-0.2	41	0.00
	AMNSIL	855	0	18.9	9.4	0.2	245	0.00
	Andhra Pradesh	8048	0	172.9	30.4	1.5	1486	0.50
	Telangana	9421	0	187.8	76.6	0.2	438	0.00
SR	Karnataka	9407	0	189.6	11.1	-1.0	969	0.00
	Kerala	3697	0	73,5	53.4	-0.1	345	0.00
	Tamil Nadu	14983	0	314.3	161.6	-3.7	973	0.00
	Puducherry	415	0	8.3	8.8	-0.5	40	0.00
	Bihar	6023	0	121.9	110.6	0.1	424	1.44
	DVC	3610	0	77.7	-37.2	2.7	439	0.00
	Jharkhand	1543	211	33.1	24.1	0.4	208	2.03
ER	Odisha	5641	0	127.4	52.5	-2.0	434	0.00
	West Bengal	8296	0	165.7	39.9	-0.6	611	0.00
	Sikkim	106	0	1.8	1.8	-0.1	25	0.00
	Arunachal Pradesh	134	0	2.3	2.7	-0.4	7	0.00
	Assam	1680	0	28.6	21.6	-0.5	85	0.00
	Manipur	171	0	2.5	2.5	0.1	37	0.00
NER	Meghalaya	313	0	5.4	0.7	-0.3	41	0.00
. 12.24	Mizoram	110	0	1.9	1.8	0.0	11	0.00
	Nagaland	138	0	2.5	2.0	0.1	11	0.00
	Tripura	231	0	3.7	2.7	0.1	76	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.1	-1.3	-24.5
Day Peak (MW)	573.0	-463.2	-1039.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	296.1	-172.0	-34.8	-83.9	-5.4	0.0
Actual(MU)	298.0	-163.0	-51.8	-80.6	-6.0	-3.4
O/D/U/D(MU)	1.9	9.0	-17.1	3.3	-0.6	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3959	8538	5428	2170	923	21018	43
State Sector	7959	11386	7055	1390	110	27899	57
Total	11918	19923	12483	3560	1034	48918	100

G. Sourcewise generation (MU)

0.200 ()							
	NR	WR	SR	ER	NER	All India	% Share
Coal	703	1341	582	575	12	3214	70
Lignite	23	15	45	0	0	83	2
Hydro	302	40	65	66	21	494	11
Nuclear	24	33	46	0	0	103	2
Gas, Naptha & Diesel	23	16	9	0	24	71	2
RES (Wind, Solar, Biomass & Others)	162	215	265	5	0	647	14
Total	1237	1659	1012	646	58	4612	100
Share of RES in total generation (%)	13.06	12.93	26.20	0.78	0.41	14.02	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	39.47	17.31	37.16	11.01	36.76	26.97	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.065

Based on State Max Demands

1.065

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: 14-May-2022

C1							Date of Reporting:	
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	14-May-2022 NET (MU)
No			No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MC)	Export (MC)	NEI (MC)
1mpo	rt/Export of ER (V HVDC	ALIPURDUAR-AGRA	2	0	300	0.0	2.6	-2.6
2		PUSAULI B/B	- 4	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2.	249	323	0.0	0.9	-0.9
4		SASARAM-FATEHPUR	ĩ	0	334	0.0	5.6	-5.6
- 5	765 kV	GAYA-BALIA	1	0	758	0.0	11.7	-11.7
6		PUSAULI-VARANASI	1	74	1	0.9	0.0	0.9
7		PUSAULI -ALLAHABAD	1	34	116	0.0	0.6	-0.6
9		MUZAFFARPUR-GORAKHPUR	2	0	867	0.0	11.5	-11.5
10		PATNA-BALIA NAUBATPUR-BALIA	2	0	594 635	0.0	8.5 8.7	-8.5 -8.7
11		BIHARSHARIFF-BALIA	2	Ŏ	587	0.0	5.9	-5.9
12		MOTIHARI-GORAKHPUR	2	ŏ	507	0.0	7.9	-7.9
13	400 kV	BIHARSHARIFF-VARANASI	2	33	261	0.0	2.3	-2.3
14		SAHUPURI-KARAMNASA	1	1	174	0.0	2.4	-2.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16		GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17 18		KARMANASA-SAHUPURI KARMANASA-CHANDAULI	+	0	0	0.0	0.0	0.0
10	132 K V	KARMANASA-CHANDAULI	1	u v	ER-NR	1,3	68.5	0.0 -67.2
Impo	rt/Export of ER (V	With WR)				1.0	0010	-07.2
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	2.0	0.0	2.0
2		NEW RANCHI-DHARAMJAIGARH	2	1363	0	20.9	0.0	20.9
3	765 kV	JHARSUGUDA-DURG	2	0	314	2.6	0.0	2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	6.1	-6.1
5		RANCHI-SIPAT	2			4.3	0.0	4.3
				286	6			
6		BUDHIPADAR-RAIGARH	1	8	91	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	145	0 ED WD	1.7	0.0	1.7
Imn-	rt/Export of ER (V	With SD)			ER-WR	31.4	7.4	24.0
1		JEYPORE-GAZUWAKA B/B	2.	0	336	0.0	7.3	-7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1632	0.0	32.9	-32.9
3		ANGUL-SRIKAKULAM	2	Ů	2281	0.0	35.9	-35.9
4	400 kV	TALCHER-I/C	2	821	0	12.1	0.0	12.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
-		Wal MED			ER-SR	0.0	76.2	-76.2
Impo	rt/Export of ER (V			C1	170	0.0	10	1 1 1
2		BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2	61 71	170 293	0.0	1.9 3.2	-1.9 -3.2
3		ALIPURDUAR-SALAKATI	2	11	63	0.0	0.6	-0.6
					ER-NER	0.0	5.6	-0.0 -5.6
Impo	rt/Export of NER	(With NR)						
1		BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
_					NER-NR	0.0	12.0	-12.0
	rt/Export of WR (2002	0.0	F1.4	51.4
1 2		CHAMPA-KURUKSHETRA	2	0	3002	0.0	51.4 0.0	-51.4
3		VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	445 0	0 311	3.1 0.0	7.3	3.1 -7.3
4		GWALIOR-AGRA	2	0	2299	0.0	41.4	-41.4
5		GWALIOR-PHAGI	2	Ŏ	1731	0.0	26.5	-26.5
6	765 kV	JABALPUR-ORAI	2	0	1144	0.0	38.3	-38.3
7		GWALIOR-ORAI	1	648	0	12.0	0.0	12.0
8		SATNA-ORAI	1	0	1131	0.0	23.0	-23.0
9		BANASKANTHA-CHITORGARH	2 2	454	343	0.0	1.3 71.2	-1.3
10 11		VINDHYACHAL-VARANASI ZERDA-KANKROLI	1	0 220	3720 0	0.0 2.4	0.0	-71.2 2.4
12		ZERDA-BHINMAL	1	372	81	5.0	0.0	5.0
				312				
1 13	400 kV	VINDHYACHAL -RIHAND	1	973			0.0	21.8
13		VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	973 140	0	21.8	0.0 5.4	21.8 -5.4
13 14 15	400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR BHANPURA-RANPUR	1 2 1	973 140 0				21.8 -5.4 0.0
14 15 16	400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK	1 2 1 1	140	0 629	21.8 0.0	5.4 0.0 0.0	-5.4
14 15 16 17	400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	1 2 1 1 1	140 0 0 87	0 629 0 30	21.8 0.0 0.0 0.0 0.0	5.4 0.0 0.0 0.0	-5.4 0.0
14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 2 1 1 1	140 0 0 87 47	0 629 0 30 0	21.8 0.0 0.0 0.0 0.4 1.1	5.4 0.0 0.0 0.0 0.0	-5.4 0.0 0.0 0.4 1.1
14 15 16 17 18 19	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALJOR-SAWAI MADHOPUR	1 2 1 1 1 1	140 0 0 87 47	0 629 0 30 0 16	21.8 0.0 0.0 0.0 0.4 1.1 0.0	5.4 0.0 0.0 0.0 0.0 0.0	-5.4 0.0 0.0 0.4 1.1 0.0
14 15 16 17 18	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	1 2 1 1 1 1 1 2	140 0 0 87 47	0 629 0 30 0 16 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0
14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAL MADHOPUR RAJGHAT-LALITPUR	1 2 1 1 1 1 1 1 2	140 0 0 87 47	0 629 0 30 0 16	21.8 0.0 0.0 0.0 0.4 1.1 0.0	5.4 0.0 0.0 0.0 0.0 0.0	-5.4 0.0 0.0 0.4 1.1 0.0
14 15 16 17 18 19 20	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAL MADHOPUR RAJGHAT-LALITPUR	1 2 1 1 1 1 1 2	140 0 0 87 47	0 629 0 30 0 16 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8
14 15 16 17 18 19 20 Impo 1	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC HVDC	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR	- 2	140 0 0 87 47 0 0	0 629 0 30 0 16 0 WR-NR	21.8 0.0 0.0 0.0 0.4 1.1 0.0 45.8 24.0 41.7	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 265.6	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8
14 15 16 17 18 19 20 Impo 1 2	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR	1 2 1 1 1 1 1 2 2	140 0 0 87 47 0 0 0	0 629 0 30 0 16 0 0 WR-NR	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 265.6	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0
14 15 16 17 18 19 20 Impo 1 2 3	400 kV 220 kV 220 kV 220 kV 220 kV 232 kV 132 kV 142 kV 152 kV 152 kV 155 kV 1765 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWALMADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	- 2	140 0 0 87 47 0 0 0 987 2401 1815	0 629 0 30 0 16 0 WR-NR	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 265.6 0.0 0.0 0.0 0.0 0.0 0.0 3.0 0.0 0.0 0.0	-5.4 0.0 0.0 0.4 1.1 0.0 -219.8 24.0 41.7 13.0 -30.9
14 15 16 17 18 19 20 Impo 1 2 3 4	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 765 kV 400 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRA WATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI	- 2	140 0 0 87 47 0 0 987 2401 1815 0 1679	0 629 0 30 0 16 0 WR-NR	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 265.6 0.0 0.0 0.0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 -30.9 30.8
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC HVDC T65 kV 400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	- 2	140 0 0 87 47 0 0 987 2401 1815 0 1679 0	0 629 0 30 0 16 0 WR-NR 0 0 1070 2397 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 -219.8 -24.0 41.7 13.0 -30.9 30.8 0.0
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 155 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPURA-URAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI	- 2	140 0 0 87 47 0 0 987 2401 1815 0 1679 0	0 629 0 30 0 16 0 WR-NR 0 0 1070 2397 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 0.0 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 -219.8 24.0 41.7 13.0 -30.9 30.8 0.0
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 155 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	- 2	140 0 0 87 47 0 0 987 2401 1815 0 1679 0	0 629 0 30 0 16 0 WR-NR 0 0 1070 2397 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 -219.8 -24.0 41.7 13.0 -30.9 30.8 0.0
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 155 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAL MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AURAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-AWBEWADI XELDEM-AMBEWADI	2 2 2 2 2 2 2 1	140 0 0 0 87 47 0 0 987 2401 1815 0 1679 0 0	0 629 0 30 0 16 0 WR-NR 0 0 1070 2397 0 0 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 0.0 2.4	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 265.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 -30.9 30.8 0.0 0.0 0.0 42.4 43.7 44.7
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAL MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	- 2 2 2 2 2 2 2 2 1 1 1	140 0 0 0 87 47 0 0 987 2401 1815 0 1679 0 0 CHANGES	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 0.0 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 -219.8 -24.0 41.7 3.0 30.8 0.0 0.0 -2.4 +ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV 142 kV 155 kV 155 kV 400 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAL MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-AURAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-AWBEWADI XELDEM-AMBEWADI	- 2 2 2 2 2 2 2 2 2 1 1 1 1 FERNATIONAL EX	140 0 0 0 87 47 0 0 987 1 1815 0 1679 0 0 CHANGES	0 629 0 30 0 16 0 WR-NR 0 0 1070 2397 0 0 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 0.0 2.4	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 265.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 30.8 0.0 0.0 0.0 2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MAJARAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAH	- 2 2 2 2 2 2 2 2 2 1 1 1 FERNATIONAL EXC	140 0 0 87 47 47 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0 WR-SR	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 24.0 13.0 0.0 0.0 41.7 11.3.0 0.0 0.0 30.8 0.0 2.4 111.8	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 30.9 30.8 0.0 0.0 2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAL MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHANIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI	- 2 2 2 2 2 2 1 1 1 FERNATIONAL EX: Line 400kV MANGDECHH 1,2&3 i.e. ALPURDU.	140 0 0 87 47 47 0 0 987 487 49 10 0 0 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0	21.8 0.0 0.0 0.0 0.4 1.1 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 0.0 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 30.8 0.0 0.0 0.0 2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MAJARAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAH	- 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 TERNATIONAL EX Line 400kV MANGDECHH 12&S i.e. ALIPUEDU. MANGDECHH HEP 4	140 0 0 0 87 47 47 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR R RECEIPT (from	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0 WR-SR	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 24.0 13.0 0.0 0.0 41.7 11.3.0 0.0 0.0 30.8 0.0 2.4 111.8	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 30.8 0.0 0.0 2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR With SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	- 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140 0 0 87 47 47 0 0 987 487 49 0 0 1815 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR R RECEIPT (from \$\frac{1}{2}\$\$ BMW) 181 1,24 (4 400) EV	0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW)	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 -219.8 -24.0 41.7 13.0 -30.9 30.8 0.0 0.0 -2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA MAJARAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAHAH	2 2 2 2 2 1 1 1 1 IERNATIONAL EX Line 400kV MANGDECHH 400kV MANGDECHU HEP 4 400kV TALBHAGG MALBAGE - BINAGU MANGDECHU TOM TALJ	140 0 0 87 87 47 47 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR R RECEIPT (from \$\frac{1}{2}\$ H (\$\frac{1}{2}\$ H (0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0 WR-SR	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 24.0 13.0 0.0 0.0 41.7 11.3.0 0.0 0.0 30.8 0.0 2.4 111.8	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 30.8 0.0 0.0 2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER	TERNATIONAL EX 2 2 2 2 2 1 1 1 TERNATIONAL EX 400kV MANGDECHH 1,283 ie. ALIPURDU 400kV TALA-BINAGU MANGDECHH 1,283 ie. ALIPURDU 400kV TALA-BINAGU RECEIPT (from TAL) RECEIPT (from TAL)	140 0 0 0 87 47 47 0 0 987 2401 1815 0 1679 0 0 0 CHANGES Name U-ALIPURDUAR 48 RECIPT (from JR) 1816 1817 1818 1818 1818 1818 1818 1818	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0 1119 WR-SR	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 24.0 13.0 0.0 0.0 11.1 0.0 0.0 0.0 11.1 0.0 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -+ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR With SR BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAIGHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-KUDGI FONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER	- 2 2 2 2 2 2 2 1 1 1 1 FERNATIONAL EX Line 400kV MANGDECHH 11,283 i.e. ALIPURDU. MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR MALBASE - BIRGAR	140 0 0 87 47 47 0 0 987 47 47 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from 181 12,4 (4 400 kV R) 16, 8 INAGURI HEP (6*1 170 MV) PARA IAZ (& 220 kV	0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW)	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 -219.8 -24.0 41.7 13.0 -30.9 30.8 0.0 0.0 -2.4 80.9 +ve)/Export(-ve) Energy Exchange
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER	TERNATIONAL EX 2 2 2 2 2 1 1 1 TERNATIONAL EX 400kV MANGDECHH 1,283 ie. ALIPURDU 400kV TALA-BINAGU MANGDECHH 1,283 ie. ALIPURDU 400kV TALA-BINAGU RECEIPT (from TAL) RECEIPT (from TAL)	140 0 0 87 47 47 0 0 987 47 47 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from 181 12,4 (4 400 kV R) 16, 8 INAGURI HEP (6*1 170 MV) PARA IAZ (& 220 kV	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0 1119 WR-SR	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 24.0 13.0 0.0 0.0 11.1 0.0 0.0 0.0 11.1 0.0 0.0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -+ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR	2 2 2 2 2 1 1 1 1 IERNATIONAL EX Line 400kV MANGDECHH 400kV MANGDECHU HEP 4 400kV TALABHAGE MALBASE - BINAGU MANGDECHU HER 4 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from TAL/	140 0 0 0 87 47 47 0 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from 181 12.4 (k 400kV RI) i.e. BINAGURI MEP (6*190MW) PARA 182 (k 220kV A) i.e. BIRPAGURI MEP (6*20MW) A) i.e. BIRPAGURI MEP (6*20MW) PARA 182 (k 220kV A) i.e. BIRPAGURI MEP (6*20MW) A) i.e. BIRPAGURI MEP (6*40MW)	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW) 0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 24.0 41.7 13.0 -30.9 30.8 0.0 0.0 2.4 80.9 +ve)/Export(-ve) Energy Exchange (MII) 5.2 4.3
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER	- 2 2 2 2 2 2 2 1 1 1 1 FERNATIONAL EX Line 400kV MANGDECHH 11,283 i.e. ALIPURDU. MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR MALBASE - BIRGAR	140 0 0 0 87 47 47 0 0 0 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from 181 12.4 (k 400kV RI) i.e. BINAGURI MEP (6*190MW) PARA 182 (k 220kV A) i.e. BIRPAGURI MEP (6*20MW) A) i.e. BIRPAGURI MEP (6*20MW) PARA 182 (k 220kV A) i.e. BIRPAGURI MEP (6*20MW) A) i.e. BIRPAGURI MEP (6*40MW)	0 629 0 30 0 16 0 0 WR-NR 0 0 1070 2397 0 0 0 1119 WR-SR	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 11.7 13.0 0.0 0.0 24.1 11.8 Min (MW)	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -+ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER	TERNATIONAL EX 2 2 2 2 2 1 1 1 TERNATIONAL EX 1 400kV MANGDECHH 1.28.3 i.e. ALIPURDU MANGDECHH 1.28.3 i.e. ALIPURDU MANGDECHH 2.28.3 i.e. ALIPURDU MANGDECHH HEP 4 400kV TALA-BINAGU RECEIPT (from TAL) RECEIPT (from TGHU 132kV GELEPHU-SAI	140 0 0 0 87 47 47 0 0 987 2401 1815 0 1679 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMW) IRI 1,24 (& 400EV RI) RIP 1,24 (& 400EV RI) RIP 1,24 (& 40EV AI) LIEP (6+170MW) PARA 1& 2 (& 220EV AI) LIEP (6+170MW) AI LEP (6+170MW) AI LEP (6+170MW) AI LEP (8+170MW) AI LEP	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -4ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIORSAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR	2 2 2 2 2 1 1 1 1 IERNATIONAL EX Line 400kV MANGDECHH 400kV MANGDECHU HEP 4 400kV TALABHAGE MALBASE - BINAGU MANGDECHU HER 4 220kV CHUKHA-BIR MALBASE - BIRPAR RECEIPT (from TAL/	140 0 0 0 87 47 47 0 0 987 2401 1815 0 1679 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMW) IRI 1,24 (& 400EV RI) RIP 1,24 (& 400EV RI) RIP 1,24 (& 40EV AI) LIEP (6+170MW) PARA 1& 2 (& 220EV AI) LIEP (6+170MW) AI LEP (6+170MW) AI LEP (6+170MW) AI LEP (8+170MW) AI LEP	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW) 0	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.9 -30.9 -0.0 -2.4 -2.4 -4.0 -2.4 -4.0 -2.4 -4.1 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	140 0 0 0 87 47 47 0 0 1 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PisoMW) RRT 12,4 (& 400kV RR) 12,4 (& 400kV R	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -4ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIORISAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER	TERNATIONAL EX 2 2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANG DECHH 1,28/3 i.e. ALIPURDU. MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRAGR RECEIPT from TALA 132kV GELEPHU-SAI 132kV MOTANGA-RA 132kV MAHENDRAN.	140 0 0 0 87 47 47 0 0 1 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PisoMW) RRT 12,4 (& 400kV RR) 12,4 (& 400kV R	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 0.4 1.1 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW) 0 152 25	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.9 -30.9 -2.4 -40.9 -4ve)/Export(-ve) Energy Exchange (MII) -5.2 -4.3 -6.1 -6.6
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI IN Region ER ER ER	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	140 0 0 0 87 47 47 0 0 1 987 2401 1815 0 1679 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PisoMW) RRT 12,4 (& 400kV RR) 1,0 (RT 12,4 (& 400kV RR) 1,0 (RT 12,4 (& 200kV A) 1,6 BRPARA (& 200kV A) 1,6 BRPARA KITA HEP (6*170MW) LAKATI	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -4ve)/Export(-ve)
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 182 kV 184 kV 185 kV 185 kV 186 kV 186 kV 186 kV 186 kV 187 kV 188 kV 18	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIORISAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	140 0 0 0 87 47 47 0 0 987 47 0 0 987 2401 1815 0 1679 0 0 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMY) PRI 1,24 (& 400kV RI) RI 1,24 (& 400kV RI) LAKATI LAKA	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.9 -30.9 -2.4 -40.9 -4ve)/Export(-ve) Energy Exchange (MII) -5.2 -4.3 -6.1 -6.6
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 132 kV 132 kV rt/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA GWALIORISAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER ER NER	TERNATIONAL EX 2 2 2 2 1 1 1 TERNATIONAL EX Line 400kV MANG DECHH 1,28/3 i.e. ALIPURDU. MALBASE - BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRAGR RECEIPT from TALA 132kV GELEPHU-SAI 132kV MOTANGA-RA 132kV MAHENDRAN.	140 0 0 0 87 47 47 0 0 987 47 0 0 987 2401 1815 0 1679 0 0 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMY) PRI 1,24 (& 400kV RI) RI 1,24 (& 400kV RI) LAKATI LAKA	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 0.4 1.1 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW) 0 152 25	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.9 -30.9 -0.0 -2.4 -4.0 -4.0 -4.0 -4.0 -4.0 -4.0 -4.0 -4
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 182 kV 184 kV 185 kV 185 kV 186 kV 186 kV 186 kV 186 kV 187 kV 188 kV 18	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) 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 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	140 0 0 0 87 47 47 0 0 987 47 0 0 987 2401 1815 0 1679 0 0 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMY) PRI 1,24 (& 400kV RI) RI 1,24 (& 400kV RI) LAKATI LAKA	0 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -(MII) -5.2 -4.3 -1.3 -6.6 -0.8
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 182 kV 184 kV 185 kV 185 kV 186 kV 186 kV 186 kV 186 kV 187 kV 188 kV 18	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAHYA MALANPUR-AURAHYA MALANPUR-AURAHYA (GWALIORISAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI ER ER NER NER NER NER	- 2 2 2 2 2 2 1 1 1 1 FERNATIONAL EX Line Holky MANGDECHH 1,283 i.e. ALIPURDU. MANGDECHU HEP 4 400KY TALA BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALJ 220kV CHUKHA-BIR 132kV GELEPHU-SAI 132kV MOTANGA-RA 132kV MOTANGA-RA 132kV MAHENDRAN TANAKPURNIIPC) NEPAL IMPORT (FR	140 0 0 0 87 47 0 0 0 87 47 0 0 0 1 987 2401 1815 0 1679 0 0 1679 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from below the b	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW) 0 152 25 4	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -3.0.9 -30.8 -0.0 -2.4 -2.4 -2.4 -2.4 -3.0.9 -3
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 182 kV 184 kV 185 kV 185 kV 186 kV 186 kV 186 kV 186 kV 187 kV 188 kV 18	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) 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 2 2 1 1 1 1 FERNATIONAL EX Line Holky MANGDECHH 1,283 i.e. ALIPURDU. MANGDECHU HEP 4 400KY TALA BINAGU MALBASE - BINAGU MALBASE - BINAGU MALBASE - BIRGAR RECEIPT (from TALJ 220kV CHUKHA-BIR 132kV GELEPHU-SAI 132kV MOTANGA-RA 132kV MOTANGA-RA 132kV MAHENDRAN TANAKPURNIIPC) NEPAL IMPORT (FR	140 0 0 0 87 47 47 0 0 987 2401 1815 0 1679 0 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMY) IRI 1,24 (& 400KV) IRI 1,24 (& 400KV) IRI 1,24 (& 40KV) A) i.e. BIRPARA KHA HEP 4*84MW) LAKATI	0 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -2.4 -80.9 -(MII) -5.2 -4.3 -1.3 -6.6 -0.8
14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 182 kV 184 kV 185 kV 185 kV 186 kV 186 kV 186 kV 186 kV 187 kV 188 kV 18	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI IN Region ER ER ER ER NER NER NER NER NER	- 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	140 0 0 0 87 47 47 0 0 987 47 0 0 987 2401 1815 0 1679 0 0 0 0 0 CHANGES Name U-ALIPURDUAR AR RECEIPT (from PISOMU) IRI 1,24 (& 400kV RI) RI 1,24 (& 400kV RI) RI 1,24 (& 40kV AI) LAKATI LAKAT	0 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 0.0 45.8 24.0 41.7 13.0 0.0 2.4 111.8 Min (MW) 0 152 25 4	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 0.0 0.0 0.0 0.4 1.1 0.0 0.0 -219.8 -219.8 -219.8 -219.8 -30.9 30.8 0.0 0.0 2.4 80.9 -2.4 80.9 -2.4 4.3 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3.0 -3
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14 15 16 17 18 19 20 Impo 1 2 3 4 5 6	400 kV 220 kV 220 kV 220 kV 220 kV 220 kV 182 kV 184 kV 185 kV 185 kV 186 kV 186 kV 186 kV 187 kV 188 kV 18	RAPP-SHUJALPUR BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA MALANPUR-AURAIYA (GWALIOR-SAWALMADHOPUR RAAGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD KOLHAPUR-KUDGI KOLHAPUR-CHIKODI PONDA-AMBEWADI TR Region ER ER ER NER NER NER NER NER	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	140 0 0 0 87 47 47 0 0 0 87 47 0 0 0 1815 0 1815 0 1679 0 0 1616 0 0 1616 0 0 17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.8 0.0 0.0 0.0 0.0 0.4 1.1 0.0 0.0 45.8 24.0 41.7 13.0 0.0 30.8 0.0 2.4 111.8 Min (MW) 0 152 25 4	5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	-5.4 -0.0 -0.0 -0.0 -0.4 -1.1 -0.0 -0.0 -219.8 -24.0 -41.7 -13.0 -30.9 -30.8 -0.0 -0.0 -2.4 -4.7 -13.0 -3.0 -13.0 -3.0 -3.0 -3.0 -4.0 -4.0 -4.3 -4.3 -5.2 -6.3 -6.3 -6.3
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