

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPËRATION 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: 11th Apr 2021

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 10.04.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अप्रैल-2021 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 10th April 2021, is available at the NLDC website.

धन्यवाद.

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



Report for previous day A. Power Supply Position at All India and Regional level				Date	e of Reporting:	11-Ap	r-2021
	NR	WR	SR	ER	NER	TOTAL	ĺ
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	50096	52559	48485	22357	2466	175963	ĺ
Peak Shortage (MW)	531	0	0	0	5	536	ĺ

Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	50096	52559	48485	22357	2466	175963
Peak Shortage (MW)	531	0	0	0	5	536
Energy Met (MU)	1005	1340	1208	489	44	4086
Hydro Gen (MU)	106	42	79	38	8	274
Wind Gen (MU)	12	67	27	-	-	106
Solar Gen (MU)*	50.51	36.97	109.80	5.06	0.18	203
Energy Shortage (MU)	6.94	0.00	0.00	0.00	0.27	7.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51246	59548	56870	22862	2946	178581
Time Of Maximum Demand Met (From NLDC SCADA)	19:34	15:05	14:53	21:26	18:20	19:36

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 0.032 0.00 0.10 5.80 5.90 78.09 16.01

C. Power Supply Position in States

	27 2 001/101 11 0 111/0	Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage
		day(MW)	Demand(MW)	(MIC)	(MU)	(MIC)	(IVI VV)	(MU)
	Punjab	6040	0	129.0	64.2	-1.0	94	0.00
	Haryana	6904	0	129.4	85.4	0.5	157	0.00
	Rajasthan	10405	0	214.2	47.5	-1.0	303	0.00
	Delhi	3553	0	76.9	61.8	-1.8	77	0.00
NR	UP	18835	150	332.7	117.3	-0.6	204	0.02
	Uttarakhand	1890	0	39.1	24.8	0.5	175	0.00
	HP	1491	0	29.1	21.3	0.4	121	0.52
	J&K(UT) & Ladakh(UT)	2650	350	51.3	40.9	-0.3	222	6.40
	Chandigarh	179	0	3.3	3.3	0.0	21	0.00
	Chhattisgarh	4525	0	106.2	52.2	-0.2	534	0.00
	Gujarat	18643	0	405.2	107.1	1.4	760	0.00
	MP	11023	0	233.1	113.8	-2.2	440	0.00
WR	Maharashtra	24161	0	538.3	187.6	-1.1	779	0.00
	Goa	552	0	12.3	12.2	-0.4	26	0.00
	DD	336	0	7.6	7.5	0.1	30	0.00
	DNH	816	0	18.6	18.6	0.0	54	0.00
	AMNSIL	832	0	18.2	1.2	0.3	340	0.00
	Andhra Pradesh	10521	0	213.1	95.9	0.6	606	0.00
	Telangana	12011	0	252.3	123.0	-0.2	663	0.00
SR	Karnataka	13345	0	273.0	108.2	1.4	861	0.00
	Kerala	4251	0	87.7	54.7	0.5	259	0.00
	Tamil Nadu	16846	0	372.8	228.7	-0.3	745	0.00
	Puducherry	421	0	9.1	9.4	-0.3	23	0.00
	Bihar	5879	0	111.0	102.2	-1.1	396	0.00
	DVC	3218	0	70.6	-56.8	-0.8	339	0.00
	Jharkhand	1618	0	29.9	22.2	-0.7	155	0.00
ER	Odisha	4556	0	96.0	26.2	-1.7	418	0.00
	West Bengal	8629	0	180.4	31.8	0.8	485	0.00
	Sikkim	66	0	0.8	1.6	-0.8	58	0.00
	Arunachal Pradesh	134	1	1.9	1.9	-0.1	46	0.00
	Assam	1640	12	26.6	23.8	0.2	140	0.00
	Manipur	202	1	2.5	2.5	-0.1	28	0.01
NER	Meghalaya	304	0	5.0	3.4	0.2	46	0.24
	Mizoram	105	0	1.5	1.6	-0.1	20	0.01
	Nagaland	128	0	2.0	1.8	0.1	36	0.01
	Tripura	293	2	5.1	3.3	1.0	78	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.6	-16.3	-22.0
Day Peak (MW)	298.0	-751.6	-1015.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	179.1	-293.0	211.6	-110.8	13.1	0.0
Actual(MU)	161.2	-296.3	224.3	-108.9	15.4	-4.2
O/D/U/D(MU)	-17.9	-3.3	12.8	1.9	2.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4657	14538	6592	1048	1460	28295	47
State Sector	13152	11250	4585	2293	11	31291	53
Total	17809	25788	11177	3341	1471	59586	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	584	1411	655	569	15	3235	78
Lignite	21	11	44	0	0	76	2
Hydro	106	42	80	38	8	274	7
Nuclear	32	34	43	0	0	108	3
Gas, Naptha & Diesel	35	54	12	0	12	112	3
RES (Wind, Solar, Biomass & Others)	83	105	171	5	0	363	9
Total	860	1656	1004	613	35	4168	100
Share of RES in total generation (%)	9.63	6.32	17.00	0.82	0.51	8.72	
9 , ,				0.82	0.51		
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	25.67	10.88	29.16	7.04	24.01	17.88	

H. All India Demand Diversity Factor

Based on Regional Wax Demands	1.083
Based on State Max Demands	1.103

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: 11-Apr-2021

								Date of Reporting:	
1	No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1					T 0	205	0.0	1.0	1.0
2 36 20 20 20 20 20 20 20 2				<u> </u>	-				
1				2	·				
0				1					
2				1	-				
				1	· ·				
10		400 kV	MUZAFFARPUR-GORAKHPUR	2		251	0.0	0.5	-0.5
10									
10									
14 MANY SONT MAGRAGE MITTANT 1				_					
15 1924 19				1	62	96		0.7	-0.7
10 10 12 12 12 12 12 13 13 13				1					
Page				1					
				1					
1 70 50 MARSECTECHADURANMACKAMI 4 1107 0 20.3 0.0 20.3 2.0 2.3 2.0 2						ER-NR	0.5	39.0	-38.5
2 SASE NAN KANCHISHINEANIAKANN 2 778 290 0.0 2.0 2.0			, and the second	T .	140=		•	1 00	-0.0
1									
MINES MARSHET MARCHET 2 234 144 261 100 1.77 1.77 1.76 1.6 2.00 1.6 1.6 2.00 1.6 1.6 1.77 1.77 1.6				+	.				
S									
1									
7									
Import Tentro TEN Vigh SE									
INDITITION OF THE WINDS No. 1	7	220 kV	BUDHIPADAR-KORBA	2	224				
INTECLE INTE	Import	t/Export of ER (With SR)			ER-WR	33.1	6.0	27.1
2 TALCHER ROLLAR BIFOLE 2 0 2491 0.0 49.9 4.95.5				2	0	417	0.0	8.9	-8.9
4 900 1.04.CHERACY 2 0 1716 0.0 26.6 22.6 22.6 10.0 10.0 0	2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2480	0.0	49.9	-49.9
1 1 0 0 0 0 0 0 0 0					•				
Import Transport T					<u>U</u>				
		ZZV A V	DILLIANU EN-SILERNU	<u>, </u>	<u>. </u>				
2 90 ALPPROUNTS (MAT) 2 173 5.56 0.0 4.3 4				1					
2 2024 M.HPURDIARSALEKATH 2 33 139 0.0 1.0 1.10 1.10									
ImpuriDepart of NEW WIN NO. 2 487									
	<u> </u>	44U K V	ALII UNDUAR-SALARAII	<u> </u>	1 33				
Insperious Ins	Import					•			
	1	HVDC	BISWANATH CHARIALI-AGRA	2	487				
HYDC CHAMPA-KURKSHIFTEA 2 0 2511 0.0 45.0 45.0	Impor	t/Eyport of WP ((With NP)			NER-NR	7.4	0.0	7.4
Time				2	0	2511	0.0	45.0	-45.0
4 76 kV WMAIDRAGRA 2 0 2163 0.0 35.8 35.8 5 76 kV PARAGISWALIOR 2 0 1222 0.0 19.8 19.8 6 76 kV JABALPERORAL 2 2.84 699 0.0 15.8 15.8 7 76 kV JABALPERORAL 2 2.84 699 0.0 15.8 1 76 kV JABALPERORAL 2 2.84 699 0.0 15.8 1 76 kV JABALPERORAL 1 0 1778 0.0 0.0 15.8 1 76 kV SATINAORU 1 0 1778 0.0 0.0 15.8 1 76 kV CHITORABRE BANASKANTHA 2 1712 0 11.8 0.0 11.8 0 40 kV ZERDI, SANKKOH 1 430 0 5.5 0.0 5.5 1 20 kV ZERDI, SANKKOH 1 430 0 5.5 0.0 5.5 1 22 kV RAPERORAL RAPASKOH 2 2.93 2.9 2.2 1.6 0.5 1 22 kV RAPESHIJAHURUN 2 2.93 2.99 2.2 1.6 0.0 1 22 kV HINNYERA RAPER 1 57 108 0.0 1.0 0.0 1 22 kV HINNYERA RAPER 1 57 108 0.0 1.0 0.0 1 22 kV HINNYERA RAPER 1 33 0 0.3 0.0 0.0 2 22 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 3 13 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 3 13 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 4 13 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 5 22 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 6 13 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 7 13 kV RAPESHIJAHURUN 2 0 0 0.0 0.0 0.0 8 13 kV RAPESHIJAHURUN 2 0 0 0 0.0 0.0 9 13 kV RAPESHIJAHURUN 2 0 0 0 0.0 0.0 1 14 kV RAPESHIJAHURUN 2 0 0 0 0 0.0 1 15 kV RAPESHIJAHURUN 2 0 0 0 0 0 0 1 15 kV RAPESHIJAHURUN 2 0 0 0 0 0 0 1 15 kV RAPESHIJAHURUN 2 0 0 0 0 0 0 0 1 15 kV RAPESHIJAHURUN 2 0 0 0 0 0 0 0 1 15 kV RAPESHIJAHURUN 2 0 0 0 0 0 0 0 0 0	_				•				
5					•				
0					•				
76 SEV GWALIORORIA					•				
9				1					
10 400 kV ZERDA-KANKROIT				1					
1 400 kV ZERDA -BHINMAL 1 638 0 7.2 0.0 7.2				2					
12 400 LV VINDITYACHIAL-RIHAND				1					
13 400 kV RAPP-SHUJALPUR 2 293 289 1.2 1.6 -0.5 14 220 kV BHANPURA-RANPUR 1 577 108 0.0 1.0 -0.9 15 220 kV BHANPURA-MORAK 1 0 30 0.1 0.7 -0.6 16 220 kV MELIGANDAK 1 120 0 0.8 0.0 0.8 17 220 kV MELIGANDAK 1 120 0 0.8 0.0 0.1 18 120 kV MELIGANDAK 1 120 0 0.8 0.0 0.8 19 120 kV MELIGANDAK 1 183 0 1.4 0.0 1.4 19 120 kV MALANTI KAURAHN 1 83 0 1.4 0.0 1.4 19 120 kV MALANTI KAURAHN 1 83 0 0 0.0 0.0 19 120 kV MALANTI KAURAHN 1 83 0 0 0.0 0.0 10 120 kV MALANTI KAURAHN 1 83 0 0 0.0 0.0 10 120 kV MALANTI KAURAHN 1 83 0 0 0.0 0.0 10 120 kV MARIBANI 1 1 0 0 0 0.0 0.0 10 120 kV MARIBANI 1 0 0 0 0 0.0 10 120 kV MARIBANI 1 0 0 0 0 0 0 0 10 120 kV MARIBANI 1 0 0 0 0 0 0 0 0 10 120 kV MARIBANI 1 0 0 0 0 0 0 0 0 0				1					
15 220 kV BHANPURA-MORAK	10								
16 229 kV MEHGAON-AURAHYA	13	400 kV	RAPP-SHUJALPUR	2		289		1.6	
17 220 kV MALANPUR-AURAIYA	14	220 kV	BHANPURA-RANPUR	2 1	57	108	0.0	1.0	-0.9
18 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0 0 0 0 0 0 0	14 15	220 kV 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	2 1 1	57 0	108 30	0.0 0.1	1.0 0.7	-0.9 -0.6
ImportExport of WR (With SR)	14 15 16	220 kV 220 kV 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA	2 1 1 1	57 0 120	108 30 0	0.0 0.1 0.8	1.0 0.7 0.0	-0.9 -0.6 0.8
Import/Sport of WR (WID SR)	14 15 16 17	220 kV 220 kV 220 kV 220 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA	2 1 1 1 1 1	57 0 120 83	108 30 0	0.0 0.1 0.8 1.4	1.0 0.7 0.0 0.0	-0.9 -0.6 0.8 1.4
IIVDC	14 15 16 17 18	220 kV 220 kV 220 kV 220 kV 132 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1 1 1 1 1	57 0 120 83 0	108 30 0 0 0	0.0 0.1 0.8 1.4 0.0 0.0	1.0 0.7 0.0 0.0 0.0 0.0	-0.9 -0.6 0.8 1.4 0.0
Time	14 15 16 17 18 19	220 kV 220 kV 220 kV 220 kV 132 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 1 1 1 1	57 0 120 83 0	108 30 0 0 0	0.0 0.1 0.8 1.4 0.0 0.0	1.0 0.7 0.0 0.0 0.0 0.0	-0.9 -0.6 0.8 1.4 0.0
3 765 kV SOLAPUR-RAICHUR 2 0 2109 0.0 30.4 -30.4 4 765 kV WARDHANIZAMBAD 2 0 2920 0.0 52.1 52.1 5 400 kV WARDHANIZAMBAD 2 0 0 0.0 0.0 0.0 6 220 kV ROHAPUR-CHIRODI 2 0 0 0.0 0.0 0.0 7 220 kV ROHAPUR-CHIRODI 1 0 0 0.0 0.0 0.0 8 220 kV ROHAPUR-CHIRODI 1 0 0 0.0 0.0 0.0 9 1.8 0.0 1.8 1.8 220 kV ROHAPUR-CHIRODI 1 0 0 0.0 0.0 0.0 8 220 kV ROHAPUR-CHIRODI 1 0 0 0.0 0.0 0.0	14 15 16 17 18 19	220 kV 220 kV 220 kV 220 kV 132 kV 132 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR)	1 1 1 1 1 2	57 0 120 83 0	108 30 0 0 0 0 0 WR-NR	0.0 0.1 0.8 1.4 0.0 0.0 65.3	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1
S 400 kV KOLHAPUR-KUIGH 2 974 0 14.8 0.0 14.8 6 220 kV KOLHAPUR-KUIKODI 2 0 0 0.0 0.0 0.0 7 220 kV KOLHAPUR-KUIKODI 1 0 0 0 0.0 0.0 0.0 8 220 kV XELDEM-AMBEWADI 1 0 91 1.8 0.0 1.8	14 15 16 17 18 19 Import	220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR (BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B	1 1 1 1 1 2	57 0 120 83 0 0	108 30 0 0 0 0 WR-NR	0.0 0.1 0.8 1.4 0.0 0.0 65.3	1.0 0.7 0.0 0.0 0.0 0.0 203.5	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1
Color Colo	14 15 16 17 18 19 Import 1 2 3	220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR	1 1 1 1 1 2	57 0 120 83 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4
Tolerand Tolerand	14 15 16 17 18 19 Import 1 2 3 4	220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 765 kV	BHANPURA-RANPUR BHANPURA-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR With SR) BHADRAWATI B/B RAIGARH-PUGALUR SOLAPUR-RAICHUR WARDHA-NIZAMABAD	1 1 1 1 1 2 2	57 0 120 83 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1
S 220 kV XELDEM-AMBEWADI	14 15 16 17 18 19 Import 1 2 3 4 5	220 kV 220 kV 220 kV 220 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 765 kV	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	1 1 1 1 1 2 2 2 2 2 2 2	57 0 120 83 0 0 0	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 0.0 14.8	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchanges	14 15 16 17 18 19 Import 1 2 3 4 5 6	220 kV 220 kV 220 kV 132 kV 132 kV 14 Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 1 1 2 2 2 2 2 2 2	57 0 120 83 0 0 0 0 0 974	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchan (MU)	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 152 kV 165 kV	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	1 1 1 1 1 2 2 2 2 2 2 2	57 0 120 83 0 0 0 0 0 974 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8
State Region Line Name Max (MW) Min (MW) Avg (MW) (MU)	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14 Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 1 1 2 2 2 2 2 2 2	57 0 120 83 0 0 0 0 0 974 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8
BHUTAN ER 1.00	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 14 Export of WR (HVDC HVDC 765 kV 765 kV 400 kV 220 kV	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	1 1 1 1 1 2 2 2 2 2 2 2 2 2 1	57 0 120 83 0 0 0 0 0 974 0 0	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8
ER	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI	1 1 1 1 1 2 2 2 2 2 2 2 2 1 1	57 0 120 83 0 0 0 0 0 974 0 0 0 NATIONAL EXCHA	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 0.0 14.8 0.0 0.0 14.8	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange
BHUTAN ER	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI	1 1 1 1 1 1 2 2 2 2 2 2 2 1 1 1 INTER	57 0 120 83 0 0 0 0 0 974 0 0 0 0 NATIONAL EXCHA	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 0.0 14.8 0.0 0.0 14.8	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange
BHUTAN ER MALBASE - BINAGURI 102 0 87 2.1	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI	1 1 1 1 1 1 2	57 0 120 83 0 0 0 0 0 974 0 0 0 NATIONAL EXCHA Name	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU)
RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 182 (8*220kV CHUKHA-BIRPARA 122 (8*220kV CHUKHA-BIRPARA 1220kV CHUKHA-BIRPARA 1220kV	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI	1 1 1 1 1 1 2	57 0 120 83 0 0 0 0 0 974 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from	108 30 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU)
BHUTAN ER	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER	1 1 1 1 1 1 2	57 0 120 83 0 0 0 0 0 974 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 14.8 16.6	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2
NER 132KV-GEYLEGPHU - SALAKATI 12 0 0 0.0 NER 132KV-Motanga-Rangia 26 0 -10 -0.3 NER 132KV-TANAKPUR(NH) -	14 15 16 17 18 19 Import 1 2 3 4 5 6 7	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER	1 1 1 1 1 1 1 2	57 0 120 83 0 0 0 0 0 0 0 0 0 974 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV RI) i.e. BINAGURI A HEP (6*170MW)	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 14.8 16.6	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2
NER 132KV-GEYLEGPHU - SALAKATI 12 0 0 0.0 NER 132kV Motanga-Rangia 26 0 -10 -0.3 NR 132kV-TANAKPUR(NH) -	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER	1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW)	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2
NER	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER	1 1 1 1 1 1 2 2	57 0 120 83 0 0 0 0 0 0 0 0 0 974 0 0 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW)	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2
NR 132KV-TANAKPUR(NH) - 0 0 0 0 -1.6 ER 400KV-MUZAFFARPUR - DHALKEBAR DC -348 -159 -329 -7.9 NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 WR-SR WR-SR	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW)	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2
NR 132KV-TANAKPUR(NH) - 0 0 0 0 -1.6 ER 400KV-MUZAFFARPUR - DHALKEBAR DC -348 -159 -329 -7.9 NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW)	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1
NR 132KV-TANAKPUR(NH) - 0 0 0 0 -1.6 ER 400KV-MUZAFFARPUR - DHALKEBAR DC -348 -159 -329 -7.9 NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133	0.0 0.1 0.8 1.4 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW)	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1
NR MAHENDRANAGAR(PG) 0 0 -1.6 ER 400KV-MUZAFFARPUR - DHALKEBAR -348 -159 -329 -7.9 NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIR) MALBASE - BIRPAR RECEIPT (from CHUI 132KV-GEYLEGPHU	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0
NEPAL ER 400KV-MUZAFFARPUR - DHALKEBAR -348 -159 -329 -7.9	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIR) MALBASE - BIRPAR RECEIPT (from CHUI 132KV-GEYLEGPHU	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW)	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0
NEPAL ER DC -348 -159 -329 -7.9 NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER	1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW) 93 87	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3
NEPAL ER DC -348 -159 -329 -7.9 NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW) 93 87	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3
NEPAL ER 132KV-BIHAR - NEPAL -324 -254 -284 -6.8 ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER NER	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0	1.0 0.7 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW) 93 87	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3
ER BHERAMARA HVDC(BANGLADESH) -857 -660 -776 -18.6 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 78 0 -71 -1.7 NER 132KV-SURAJMANI NAGAR - 80 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER NER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIR) MALBASE - BIRPAR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR(N MAHENDRANAGAR(400kV-MUZAFFARP	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6
BANGLADESH NER 132KV-SURAJMANI NAGAR - 78 0 -71 -1.7 NER 132KV-SURAJMANI NAGAR - 80 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV	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 XELDEM-AMBEWADI Region ER ER NER NER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIR) MALBASE - BIRPAR RECEIPT (from CHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-TANAKPUR(N MAHENDRANAGAR(400kV-MUZAFFARP	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6
BANGLADESH NER 132KV-SURAJMANI NAGAR - 78 0 -71 -1.7 NER 132KV-SURAJMANI NAGAR - 80 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV State	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 XELDEM-AMBEWADI Region ER ER NER NER NER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHU) 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(N MAHENDRANAGAR() 400KV-MUZAFFARP DC	57 0 120 83 0 0 0 0 0 0 0 0 0 0 974 0 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV RI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI a UH) - (PG)	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 0 10 0 0 10 0 0 10 0 0 0	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6
BANGLADESH NER 132KV-SURAJMANI NAGAR - 78 0 -71 -1.7 NER 132KV-SURAJMANI NAGAR - 80 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV State	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 XELDEM-AMBEWADI Region ER ER NER NER NER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHU) 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-TANAKPUR(N MAHENDRANAGAR() 400KV-MUZAFFARP DC	57 0 120 83 0 0 0 0 0 0 0 0 0 0 974 0 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV RI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) - SALAKATI a UH) - (PG)	108 30 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 0 10 0 0 10 0 0 10 0 0 0	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6
BANGLADESH NER COMILLA(BANGLADESH)-1 78 0 -71 -1.7 NER 132KV-SURAJMANI NAGAR - 80 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV State	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 XELDEM-AMBEWADI REGION ER NER NER NER NER ER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU	57	108 30 0 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348 -324	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 -159 -254	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6 -7.9 -6.8
BANGLADESH NER COMILLA(BANGLADESH)-1 78 0 -71 -1.7 NER 132KV-SURAJMANI NAGAR - 80 0 -71 -1.7	14 15 16 17 18 19 Import 1 2 3 4 5 6 7 8	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC 765 kV 400 kV 220 kV 220 kV State	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 XELDEM-AMBEWADI REGION ER NER NER NER NER ER	1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU 132kV-GEYLEGPHU	57	108 30 0 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348 -324	0.0 0.1 0.8 1.4 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 -159 -254	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6 -7.9 -6.8
NFR 1 1 20 0 -71 -17	14 15 16 17 18 19 1 1 2 3 4 5 6 7 8 1 1 1 1 1 1 1 1 1	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State State	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 XELDEM-AMBEWADI Region ER ER NER NER NER ER ER	1 1 1 1 1 1 1 1 1 2	57 0 120 83 0 0 0 0 0 0 0 0 0 0 0 974 0 0 0 0 0 NATIONAL EXCHA Name U-ALIPURDUAR 1&2 CEIPT (from *180MW) JRI 1,2,4 (& 400kV RI) i.e. BINAGURI A HEP (6*170MW) PARA 1&2 (& 220kV A) i.e. BIRPARA KHA HEP 4*84MW) SALAKATI a IH) (PG) UR - DHALKEBAR AL	108 30 0 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348 -324	0.0 0.1 0.8 1.4 0.0 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 -159 -254	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329 -284	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6 -7.9 -6.8
NFR 1 1 20 0 -71 -17	14 15 16 17 18 19 1 1 2 3 4 5 6 7 8 1 1 1 1 1 1 1 1 1	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State State	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 XELDEM-AMBEWADI Region ER ER NER NER NER ER ER	1 1 1 1 1 1 1 1 1 2	57	108 30 0 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348 -324	0.0 0.1 0.8 1.4 0.0 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 -159 -254	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329 -284	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6 -7.9 -6.8
	14 15 16 17 18 19 1 1 2 3 4 5 6 7 8 1 1 1 1 1 1 1 1 1	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State State	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 XELDEM-AMBEWADI Region ER ER NER NER NER ER ER	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR RECEIPT (from CHUI 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-BIHAR - NEPA BHERAMARA HVDC 132KV-BIHAR - NEPA BHERAMARA HVDC	57	108 30 0 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 12 26 0 -348 -324	0.0 0.1 0.8 1.4 0.0 0.0 0.0 0.0 65.3 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 -159 -254	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329 -284	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6 -7.9 -6.8
	14 15 16 17 18 19 1 1 2 3 4 5 6 7 8 1 1 1 1 1 1 1 1 1	220 kV 220 kV 220 kV 132 kV 132 kV 132 kV t/Export of WR (HVDC HVDC 765 kV 400 kV 220 kV 220 kV State State	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 XELDEM-AMBEWADI Region ER ER NER NER NER ER ER	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 1 1 1 1 INTER Line 400kV MANGDECHH i.e. ALIPURDUAR RE MANGDECHU HEP 4 400kV TALA-BINAGU MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIRI MALBASE - BIRPAR. RECEIPT (from CHU) 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-GEYLEGPHU 132KV-BIHAR - NEPA BHERAMARA HVDC 132KV-BIHAR - NEPA BHERAMARA HVDC	57	108 30 0 0 0 0 0 WR-NR 1016 3016 2109 2920 0 0 0 91 WR-SR NGES Max (MW) 133 102 0 -348 -324 -857	0.0 0.1 0.8 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.8 0.0 0.0 1.8 16.6 Min (MW) 0 0 0 0 0 0 0 0	1.0 0.7 0.0 0.0 0.0 0.0 0.0 203.5 13.9 51.0 30.4 52.1 0.0 0.0 0.0 0.0 147.4 Avg (MW) 93 87 0 -10 0 -329 -284 -776	-0.9 -0.6 0.8 1.4 0.0 0.0 -138.1 -13.9 -51.0 -30.4 -52.1 14.8 0.0 0.0 1.8 -130.8 Energy Exchange (MU) 2.2 2.1 0.0 -0.3 -1.6 -7.9 -6.8 -18.6