

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

## POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर 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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 31<sup>st</sup> Dec 2019

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.,२९ , रेस कोर्स क्रॉस रोड, बंगलुरु –५६०००९ Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

## Sub: Daily PSP Report for the date 30.12.2019.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-दिसम्बर-2019 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 30<sup>th</sup> Dec 2019, 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 31-Dec-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	50399	47898	38024	17962	2408	156691
Peak Shortage (MW)	599	0	0	0	37	636
Energy Met (MU)	1012	1124	922	351	40	3449
Hydro Gen (MU)	119	46	90	34	8	297
Wind Gen (MU)	16	58	40			114
Solar Gen (MU)*	25.03	20.10	77.11	1.69	0.04	124
Energy Shortage (MU)	12.4	0.2	0.0	0.0	0.6	13.2
Maximum Demand Met during the day (MW) & time	51581	54947	44383	18752	2387	166508
(from NLDC SCADA)	19:24	11:11	09:26	18:48	18:08	09:52

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	0.060	0.00	2.13	12.60	14.73	73.51	11.76

C. Power Supply Position in States

Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU
	Punjab	6007	0	119.9	52.4	-1.5		0.0
	Haryana	6969	0	130.3	76.7	-0.7	149	0.0
	Rajasthan	12836	0	234.1	69.2	-4.5	287	0.0
	Delhi	5001	0	85.8	74.7	0.5	282	0.0
NR	UP	17412	300	313.9	141.0	-1.5	625	0.0
	Uttarakhand	2102	0	40.7	27.5	0.1	133	0.0
	HP	1692	0	30.0	22.4	0.4	201	0.0
	J&K(UT) and Ladakh(UT)	2611	653	52.5	45.2	1.9	482	12.4
	Chandigarh	305	0	5.0	4.9	0.1	40	0.0
	Chhattisgarh	3721	0	78.7	21.4	0.0	358	0.0
	Gujarat	15725	0	319.5	73.4	-2.6	578	0.0
	MP	14120	0	253.0	121.6	-2.6	877	0.0
WR	Maharashtra	21704	0	428.6	132.7	0.2	466	0.0
WK	Goa	521	25	12.8	10.7	1.6	72	0.2
	DD	317	0	7.0	6.5	0.5	57	0.0
	DNH	800	0	18.6	18.6	0.0	60	0.0
	Essar steel	353	0	5.7	6.0	-0.3	60 249 358	0.0
	Andhra Pradesh	8255	0	164.6	65.9	-0.9	358	0.0
	Telangana	elangana 10418 0 204.2 99.6 -0.1 417	0.0					
SR	Karnataka	11530	0	206.3	50.3	-1.8	566	0.0
3N	Kerala	3640	0	72.7	56.0	1.0	189	0.0
	Tamil Nadu	13184	0	268.3	155.7	-0.8	369	0.0
	Pondy	322	0	6.3	6.8	-0.5	(MW)  138 149 287 282 625 133 201 482 40 358 578 877 466 72 57 60 249 358 417 566	0.0
	Bihar	4756	0	82.3	79.5	0.9	300	0.0
	DVC	3059	0	63.4	-26.2	2.1	400	0.0
ER	Jharkhand	1311	0	24.8	16.5	-1.3	100	0.0
EN	Odisha	3912	0	70.2	4.4	-0.3	200	0.0
	West Bengal	6184	0	108.2	24.8	-0.9	200	0.0
	Sikkim	131	0	2.0	1.7	0.2	20	0.0
	Arunachal Pradesh	123	2	2.1	1.9	0.1	34	0.0
	Assam	1355	35	21.7	17.6	-0.3	90	0.2
	Manipur	214	1	2.7	3.2	-0.5	23	0.0
NER	Meghalaya	374	0	6.1	3.1	0.4		0.4
	Mizoram	112	1	1.9	1.5	0.3		0.0
	Nagaland	123	1	2.2	2.1	-0.1		0.0
	Tripura	227	0	3,4	1.5	-0.3		0.0

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

Fr (Copy Fr	Bhutan	Nepal	Bangladesh
Actual(MU)	3.9	-10.0	-7.8
Day peak (MW)	313.5	-540.0	-563.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.1	-269.4	109.1	-90.8	-1.3	-0.3
Actual(MU)	260.0	-280.6	116.3	-96.9	-1.7	-2.9
O/D/U/D(MU)	7.9	-11.2	7.2	-6.1	-0.4	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4973	15713	7752	1810	597	30844
State Sector	11654	15337	9280	5040	11	41322
Total	16627	31050	17032	6850	608	72167

G. Sourcewise generation (MU)

Coal         518         1207         480         439         13           Lignite         18         14         50         0         0           Hydro         119         46         90         34         8           Nuclear         29         27         44         0         0	All India
Hydro 119 46 90 34 8	2657
	82
No. do and an analysis of the second	297
Nuclear 29 27 44 0 0	100
Gas, Naptha & Diesel 25 32 17 0 24	99
RES (Wind, Solar, Biomass & Others) 70 90 156 2 0	317
Total 780 1415 837 475 46	3553

Share of RES in total generation (%)	8.99	6.33	18.60	0.36	0.09	8.93
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.98	11.48	34.57	7.53	18.03	20.10

H. All India Demand Diversity Factor

III III III III Belliulu Bireisti I uctor	
Based on Regional Max Demands	1.033
Based on State Max Demands	1.090

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

 $<sup>\</sup>textbf{*Source} : \textbf{RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.}$ 

Le   Import/Expor	PUSAULI GAYA-VA SSAV GAYA-BAI PUSAULI- PUSAULI- PUSAULI- MUZAFFA BIHARSH/ MOTHAR BIHARSH/ GARWAH- KARMAN/ KARMAN/ TI of ER (With JHARSUGI NASARAWA JHARSUGI	AR-AGRA B/B RANASI -FATEHPUR LIA /ARANASI ALLAHABAD RPUR-GORAKHPUR ALIA ALIA -GORAKHPUR ARIFF-VARANASI SAHUPURI AR-RIHAND ASA-SAHUPURI SSA-SCHANDAULI WR) JDA-DHARAMJAIGARH	Circuit	Max Import (MW)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Max Export (MW)  0 297 892 457 706 212 165 879 1203 542 4 445 107 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Export (MU)  0.0  7.3  11.4  4.7  10.2  4.3  2.8  10.9  19.3  8.4  0.0  4.0  1.2  0.0  0.0	Import=(+ve) /Export =(-ve) for NET (MU)  NET (MU)  0.0 -7.3 -11.4 -4.7 -10.2 -4.3 -2.8 -10.9 -19.3 -8.4 0.0 -4.0 -1.2 0.0
Le   Import/Expor   4	evel	NR)  JAR-AGRA  JAR-AGRA  JAR-AGRA  BB/B  RANASI  -FATEHPUR  LIA  JARAHASI  ALLAHABAD  RPUR-GORAKHPUR  LIA  ARIFF-BALIA  L-GORAKHPUR  ARIFF-VARANASI  SAHUPURI  JAR-RIHAND  SAR-RIHAND  SSA-SAHUPURI  SSA-CHANDAULI  WR)  JDA-DHARAMJAIGARH	S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	(MW)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 297 892 457 706 212 165 879 1203 542 4 445 107 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(MU)  0.0  7.3  11.4  4.7  10.2  4.3  2.8  10.9  19.3  8.4  0.0  4.0  1.2  0.0	(MU)  0.0  -7.3  -11.4  -4.7  -10.2  -4.3  -2.8  -10.9  -19.3  -8.4  0.0  -4.0  -1.2  0.0
Import/Expor	Tr of ER (With VDC  ALIPURDL PUSAULI GAYA-VA SASARAM GAYA-BAI PUSAULI- PUSAULI- MUZAFFA BIHARSH/ MOTIHAR BIHARSH/ SONE NAC GARWAH- KARMAN/ KARMAN/ Tr of ER (With  JHARSUGI ON WITH JHARSUGI JHARSUGI ON WITH JHAR	AR-AGRA B/B RANASI -FATEHPUR LIA /ARANASI ALLAHABAD RPUR-GORAKHPUR ALIA ALIA -GORAKHPUR ARIFF-VARANASI SAHUPURI AR-RIHAND ASA-SAHUPURI SSA-SCHANDAULI WR) JDA-DHARAMJAIGARH	S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	297 892 457 706 212 165 879 1203 542 4 445 107 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 7.3 11.4 4.7 10.2 4.3 2.8 10.9 19.3 8.4 0.0 4.0 1.2	0.0 -7.3 -11.4 -4.7 -10.2 -4.3 -2.8 -10.9 -19.3 -8.4 -0.0 -4.0 -1.2 -0.0
5 HV  1 2 765 3 6 7 8 9 400 10 11 12 13 220 14 15 16 17  Import/Expor 18 765 20 21 400 22 400 23 220	PUSAULI	B/B RANASI -FATEHPUR LIA VARANASI ALLAHABAD RPUR-GORAKHPUR LIA	S/C D/C S/C S/C S/C S/C S/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C S	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	297 892 457 706 212 165 879 1203 542 4 445 107 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7.3 11.4 4.7 10.2 4.3 2.8 10.9 19.3 8.4 0.0 4.0 1.2	-7.3 -11.4 -4.7 -10.2 -4.3 -2.8 -10.9 -19.3 -8.4 -0.0 -4.0 -1.2 -0.0
1 2 765 3 3 6 7 8 9 400 10 11 12 13 220 14 15 132 17 Import/Expor 18 765 20 21 400 22 400 23 220	GAYA-VA SASARAM GAYA-BAI PUSAULI- PUSAULI- MUZAFFA BIHARSH/ MOTIHAR BIHARSH/ MOTIHAR GARWAH- KARMAN/ KARMAN/ KARMAN/ KARMAN/ HARSUGI O KY JHARSUGI O KY JHARSUGI O KY JHARSUGI	RANASI -FATEHPUR LIA //ARANASI ALLAHABAD RPUR-GORAKHPUR LIA ALIFF-BALIA L-GORAKHPUR RIFF-VARANASI SAHUPURI SAR-RIHAND RIFAND SSA-SAHUPURI SSA-CHANDAULI WR) JDA-DHARAMJAIGARH	D/C S/C S/C S/C S/C D/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	892 457 706 212 165 879 1203 542 4 445 107 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11.4 4.7 10.2 4.3 2.8 10.9 19.3 8.4 0.0 4.0 1.2 0.0	-11.4 -4.7 -10.2 -4.3 -2.8 -10.9 -19.3 -8.4 0.0 -4.0 -1.2 0.0
2 765 3 6 7 8 9 400 110 11 12 13 220 14 15 16 17  Import/Expor 18 765 20 21 400 22 400 23 220	SASARAM	FATEHPUR LIA VARANASI ALLAHABAD RPUR-GORAKHPUR LIA ARIFF-BALIA L-GORAKHPUR RRIFF-VARANASI SAHUPURI SAR-RIHAND RIHAND SSA-SAHUPURI SSA-CHANDAULI WR) JDA-DHARAMJAIGARH	S/C S/C S/C S/C S/C D/C Q/C D/C D/C D/C S/C S/C S/C S/C	0 0 0 0 0 0 0 0 0 0 0 0 0	457 706 212 165 879 1203 542 4 445 107 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.7 10.2 4.3 2.8 10.9 19.3 8.4 0.0 4.0 1.2	-4.7 -10.2 -4.3 -2.8 -10.9 -19.3 -8.4 -0.0 -4.0 -1.2
6 7 8 9 400 10 11 12 13 220 14 15 16 17  Import/Expor 18 9 765 20 21 400 23 220	PUSAULI- PUSAULI- PUSAULI- PUSAULI- MUZAFFA BIHARSH/ MOTIHAR BIHARSH/ SONE NAC GARWAH- KARMAN/ KARMAN/ KARMAN/ TO ER (With S kV NEW ANN JHARSUGI O KV JHARSUGI	VARANASI ALLAHABAD RPUR-GORAKHPUR LIIA ARIFF-BALIA L-GORAKHPUR KRIFF-VARANASI SAHUPURI SAR-RIHAND RIHAND ASA-SAHUPURI ASA-CHANDAULI WR) JDA-DHARAMJAIGARH	S/C S/C D/C Q/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 0 0 0 0 0 0 0	212 165 879 1203 542 4 445 107 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4.3 2.8 10.9 19.3 8.4 0.0 4.0 1.2 0.0	-4.3 -2.8 -10.9 -19.3 -8.4 0.0 -4.0 -1.2
7 8 9 10 11 12 13 220 14 15 16 17  Import/Expor 18 19 20 21 22 400 23 220 23 220 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	PUSAULI - MUZAFFA MUZAFFA BIHARSH/ MOTIHAR BIHARSH/ SONE NAC GARWAH- KARMAN/ KARMAN/ KARMAN/ FIT OF ER (With NEW RAIN JHARSUGI O BY JHARSUGI	ALLAHABAD RPUR-GORAKHPUR  LIA RIFF-BALIA GORAKHPUR  ARIFF-VARANASI SAHUPURI SAR-RIHAND RIHAND ASA-SAHUPURI ASA-CHANDAULI  WR)  JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH	S/C D/C Q/C D/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 0 0 0 0 0 0	165 879 1203 542 4 445 107 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.8 10.9 19.3 8.4 0.0 4.0 1.2	-2.8 -10.9 -19.3 -8.4 -0.0 -4.0 -1.2
8   9   400   11   12   13   220   14   15   16   17     18   19   20   21   22   400   23   220   23   220	MUZAFFA PATNA-B/BIHARSH/ MOTIHAR BIHARSH/ O kV PUSAULI-3 SONE NAC GARWAH- KARMAN/ KARMAN/  TI OF ER (With JHARSUGI JHARSUGI O kV JHARSUGI	RPUR-GORAKHPUR ALIA ARIFF-BALIA L-GORAKHPUR ARIFF-VARANASI SAHUPURI ARR-RIHAND RIHAND SSA-SAHUPURI SSA-CHANDAULI WR) JDA-DHARAMJAIGARH	D/C Q/C D/C D/C D/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 0 0 0 0 30	879 1203 542 4 445 107 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.9 19.3 8.4 0.0 4.0 1.2 0.0	-10.9 -19.3 -8.4 0.0 -4.0 -1.2
9 400 11 12 13 220 13 14 15 16 17  Import/Expor 18 765 20 21 400 23 22 23 220	D LV PATNA-B/BIHARSH/ MOTIHAR BIHARSH/ BIHARSH/ O LV PUSAULI-S SONE NAC GARWAH- KARMAN/ KARMAN/ KARMAN/ HARSUGI D LV HARSUGI O LV HARSUGI	ALIA ARIFF-BALIA L-GORAKHPUR ARIFF-VARANASI SAHUPURI SAR-RIHAND RIHAND SSA-SAHUPURI SSA-CHANDAULI WR) JDA-DHARAMJAIGARH	Q/C D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 0 0 30	1203 542 4 445 107 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	19.3 8.4 0.0 4.0 1.2 0.0	-19.3 -8.4 0.0 -4.0 -1.2 0.0
10	BIHARSH/ MOTIHAR BIHARSH/ BO KV PUSAULI-S SONE NAC GARWAH- KARMAN/ KARMAN/  TO FER (With  JHARSUGI NEW RAN JHARSUGI O KV	ARIFF-BALIA I-GORAKHPUR ARIFF-VARANASI SAHUPURI GAR-RIHAND RIHAND SSA-SAHUPURI SSA-CHANDAULI WR) JDA-DHARAMJAIGARH	D/C D/C D/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 0 0 30	542 4 445 107 0 0	0.0 0.0 0.0 0.0 0.0 0.0	8.4 0.0 4.0 1.2 0.0	-8.4 0.0 -4.0 -1.2 0.0
11   12   13   220   14   15   132   16   17   18   765   19   20   21   400   23   220   23   220   22   23   220   20	MOTIHAR BIHARSH/ 0 kV PUSAULI-S SONE NAC GARWAH- KARMAN/ KARMAN/  rt of ER (With  JHARSUGI HARSUGI 0 kV JHARSUGI	GORAKHPUR KRIFF-VARANASI SAHUPURI SAR-RIHAND RIHAND SSA-SAHUPURI SSA-CHANDAULI  WR)  JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH	D/C D/C S/C S/C S/C S/C S/C S/C S/C	0 0 0 0 0 30	4 445 107 0 0	0.0 0.0 0.0 0.0 0.0	0.0 4.0 1.2 0.0	0.0 -4.0 -1.2 0.0
13   220	O KV PUSAULI-S SONE NAC GARWAH- KARMAN/ KARMAN/ TO OF ER (With S KV NEW RAIN JHARSUGI O KV JHARSUGI	SAHUPURI GAR-RIHAND RIHAND ASA-SAHUPURI ASA-CHANDAULI  WR) JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH	S/C S/C S/C S/C S/C	0 0 30 0	107 0 0 0	0.0 0.0 0.6	1.2 0.0	-1.2 0.0
14 15 132 132 139 139 139 139 139 139 139 139 139 139	SONE NAC GARWAH- KARMAN/ KARMAN/ KARMAN/ Trt of ER (With JHARSUGI NEW RANI JHARSUGI	GAR-RIHAND RIHAND SA-SAHUPURI SA-CHANDAULI  WR)  JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH	S/C S/C S/C S/C	0 30 0	0 0 0	0.0 0.6	0.0	0.0
15 16 17 132 132 132 132 132 132 132 132 132 132	GARWAH- KARMANA KARMANA  Tt of ER (With  JHARSUGI JHARSUGI JHARSUGI JHARSUGI	RIHAND  ASA-SAHUPURI  ASA-CHANDAULI  WR)  JDA-DHARAMJAIGARH  CHI-DHARAMJAIGARH	S/C S/C S/C	30	0	0.6		
132   132     132     134     135     136	KARMANA KARMANA  TO FER (With  JHARSUGI NEW RANG JHARSUGI OKV	SA-SAHUPURI SA-CHANDAULI  WR)  JDA-DHARAMJAIGARH  CHI-DHARAMJAIGARH	S/C S/C	0	0		0.0	
17  Import/Expor  18 19 20 21 21 400 23 220 23 220	TT OF ER (With JHARSUGI NEW RANG JHARSUGI OKV	WR)  JDA-DHARAMJAIGARH  CHI-DHARAMJAIGARH	S/C			0.0		0.6
Import/Expor	rt of ER (With  JHARSUGI JHARSUGI JHARSUGI	WR) JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH		0	Ω		0.0	0.0
18 765 19 20 21 21 400 22 23 220	JHARSUGI NEW RANG JHARSUGI JHARSUGI	JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH	O/C			0.0	0.0	0.0
18 765 19 20 21 21 400 22 23 220	JHARSUGI NEW RANG JHARSUGI JHARSUGI	JDA-DHARAMJAIGARH CHI-DHARAMJAIGARH	O/C		ER-NR	0.6	77.3	-76.7
19 765 20 21 400 22 23 220	NEW RANG JHARSUGU JHARSUGU	CHI-DHARAMJAIGARH	O/C	5615	27.6			
20 21 22 400 23 220	JHARSUGI JHARSUGI			5617	276	6.8	0.0	6.8
21 22 400 23 22 220	JHARSUGI		D/C D/C	568 67	0 129	6.9 0.0	0.0	6.9 -1.1
22 400 23 220	0 kV	JDA-DURG JDA-RAIGARH	Q/C	234	168	0.0	0.0	0.9
220			D/C	201	1	2.4	0.0	2.4
24	BUDHIPAI	OAR-RAIGARH	S/C	0	144	0.0	2.1	-2.1
	BUDHIPAI	OAR-KORBA	D/C	149	10	2.1	0.0	2.1
					ER-WR	19.0	3.2	15.8
Import/Expor	rt of ER (With	•						,
26 HV	VDC —	GAZUWAKA B/B	D/C	0.0	508.0	0.0	12.3	-12.3
27 25 <b>765</b>		KOLAR BIPOLE	D/C D/C	0.0	1975.0 2161.0	0.0	39.1 36.5	-39.1 -36.5
<del></del>	5 kV ANGUL-SF 0 kV TALCHER-	RIKAKULAM I/C	D/C D/C	425.0	486.0	1.0	0.0	1.0
		A-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
	1			1.0	ER-SR	0.0	87.9	-87.9
Import/Expor	rt of ER (With	NER)						1
30	BINAGURI	-BONGAIGAON	D/C	307	0	4.6	0.0	5
31		AR-BONGAIGAON	D/C	356	0	5.6	0.0	6
32 220	0 kV ALIPURDU	JAR-SALAKATI	D/C	75	3	1.0	0.0	1
Immout/Evmou	rt of NER (Wit	h NID)			ER-NER	11.1	0.0	11.1
		ΓΗ CHARIALI-AGRA	1 . 1	491	0	10.2	0.0	10.2
33 111	, De   Dis			.,,,	NER-NR	10.2	0.0	10.2
Import/Expor	rt of WR (With	NR)						1
34	CHAMPA-	KURUKSHETRA	D/C	0	2352	0.0	36.8	-36.8
35 HV	VDC V'CHAL B/	В	D/C	449	489	0.0	2.3	-2.3
36	APL -MHG		D/C	0	2379	0.0	41.2	-41.2
37	GWALIOR		D/C	0	2986	0.0	50.3	-50.3
38	PHAGI-GW		D/C	0	1813	0.0	21.8	-21.8
39 765	5 kV JABALPUF		D/C	0	1152	0.0	35.2	-35.2
40	GWALIOR SATNA-OF		S/C S/C	698	0 1503	0.0	30.7	-30.7
42	-	GARH-BANASKANTHA	D/C	181	735	0.0	3.7	-30.7
43	ZERDA-KA		S/C	156	130	0.8	0.0	0.8
	-	HINMAL	S/C	148	324	0.0	1.6	-1.6
44	ZERDA -BI		S/C	973	0	20.7	0.0	20.7
45 400	0 kV ZERDA -BI V'CHAL -R	IHAND	D/C	129	411	0	2	-2
400	0 kV		D/C					
45	V'CHAL -R RAPP-SHU		S/C	28	71	0.2	0.5	-0.3
45 46 47 48	V'CHAL -R RAPP-SHU BHANPUR BHANPUR	JALPUR		28 10	71 128	0.2 0.0	0.5 1.3	-0.3 -1.3
45 46 47 48 49 220	V'CHAL -R RAPP-SHU BHANPUR BHANPUR MEHGAON	JALPUR A-RANPUR A-MORAK I-AURAIYA	S/C S/C S/C	10 87	128 0	0.0 0.9	1.3 0.0	-1.3 0.9
45 46 47 48 49 50	0 kV V'CHAL -R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPU	JALPUR A-RANPUR A-MORAK J-AURAIYA R-AURAIYA	S/C S/C S/C S/C	10 87 29	128 0 28	0.0 0.9 0.1	1.3 0.0 0.1	-1.3 0.9 0.0
45 46 47 48 49 50	0 kV V'CHAL -R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPU	JALPUR A-RANPUR A-MORAK I-AURAIYA	S/C S/C S/C	10 87	128 0 28 0	0.0 0.9 0.1 0.0	0.0 0.1 0.0	-1.3 0.9 0.0 0.0
45 46 47 48 49 50 51 132	V'CHAL -R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPU 2kV GWALIOR	JALPUR A-RANPUR A-MORAK K-AURAIYA R-AURAIYA SAWAI MADHOPUR	S/C S/C S/C S/C	10 87 29	128 0 28	0.0 0.9 0.1	1.3 0.0 0.1	-1.3 0.9 0.0
45 46 47 48 49 50 51 132 Import/Expor	V'CHAL -R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPU 2kV GWALIOR  rt of WR (With	JALPUR A-RANPUR A-MORAK A-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR)	S/C S/C S/C S/C S/C	10 87 29 0	128 0 28 0 WR-NR	0.0 0.9 0.1 0.0 33.9	1.3 0.0 0.1 0.0 227.7	-1.3 0.9 0.0 0.0 -193.7
45 46 47 48 49 50 51 132 Import/Expor	V'CHAL -R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPU 2kV GWALIOR	JALPUR A-RANPUR A-MORAK K-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B	S/C S/C S/C S/C	10 87 29	128 0 28 0	0.0 0.9 0.1 0.0	0.0 0.1 0.0	-1.3 0.9 0.0 0.0
45 46 47 48 49 50 51 132  Import/Expor 52 HV:	VCHAL-R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPU 2kV GWALIOR  rt of WR (With BHADRAW BARSUR-I SOLAPUR.	JALPUR A-RANPUR A-MORAK K-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B	S/C S/C S/C S/C S/C	10 87 29 0	128 0 28 0 WR-NR	0.0 0.9 0.1 0.0 33.9	1.3 0.0 0.1 0.0 227.7	-1.3 0.9 0.0 0.0 -193.7
45 46 47 48 49 50 51 132 Import/Expor 52 HV:	VCHAL-R RAPP-SHU BHANPUR MEHGAON MALANPU 2kV GWALIOR  TT of WR (With VDC BHADRAV BARSUR-L SKV SOLAPUR	JALPUR A-RANPUR A-MORAK I-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B .SILERU	S/C S/C S/C S/C S/C	10 87 29 0	128 0 28 0 WR-NR	0.0 0.9 0.1 0.0 33.9	1.3 0.0 0.1 0.0 227.7 11.8 0.0	-1.3 0.9 0.0 0.0 -193.7 -11.8
45 46 47 48 49 50 51 132 Import/Expor 52 53 HV 54 768	VCHAL-R RAPP-SHU BHANPUR MEHGAON MALANPU 2kV GWALIOR  TT of WR (With VDC BHADRAV BARSUR-L SKV SOLAPUR	JALPUR A-RANPUR A-MORAK I-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) JATI B/B SILERU RAICHUR NIZAMABAD	S/C S/C S/C S/C S/C S/C	10 87 29 0 0 0 328	128 0 28 0 WR-NR 498 0 2143	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3	-1.3 0.9 0.0 0.0 -193.7 -11.8 0.0 -26.3
45 46 47 48 49 50 51 132 Import/Expor 52 53 HV 54 768	VCHAL-R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPL 2kV GWALIOR  TO WR (With BHADRAW BARSUR-I S KV WARDHA-	JALPUR A-RANPUR A-MORAK I-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) JATI B/B SILERU RAICHUR NIZAMABAD	S/C S/C S/C S/C S/C S/C D/C D/C	10 87 29 0 0 0 328	128 0 28 0 WR-NR 498 0 2143 2664	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3 42.3	-1.3 0.9 0.0 0.0 -193.7 -11.8 0.0 -26.3 -42.3
45 400 47 48 220 50 51 132  Import/Expor 52 HV: 53 HV: 55 76 400	VCHAL-R RAPP-SHU BHANPUR BHANPUR MEHGAON MALANPL 2kV GWALIOR  TO WR (With BHADRAW BARSUR-I S KV WARDHA-	JALPUR A-RANPUR A-MORAK I-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B .SILERU RAICHUR NIZAMABAD R-KUDGI R-CHIKODI	S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C	10 87 29 0 0 0 328 0 739	128 0 28 0 WR-NR 498 0 2143 2664 0	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0 0.0 9.0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3 42.3 0.0	-1.3 0.9 0.0 0.0 -193.7 -11.8 0.0 -26.3 -42.3 9.0
45 400 47 48 220 50 51 132  Import/Expor 52 HV: 53 HV: 55 76 400	VCHAL-R	JALPUR A-RANPUR A-MORAK I-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B .SILERU RAICHUR NIZAMABAD R-KUDGI R-CHIKODI	S/C S/C S/C S/C S/C S/C S/C S/C D/C D/C D/C D/C D/C	10 87 29 0 0 0 0 328 0 739 0	128 0 28 0 WR-NR 498 0 2143 2664 0 0 0	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0 0.0 0.0 0.0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3 42.3 0.0 0.0	-1.3 0.9 0.0 0.0 -193.7 -11.8 0.0 -26.3 -42.3 9.0 0.0
45 400 47 48 49 220 50 51 132  Import/Expor 52 HV 53 765 56 400 57 58 220	VCHAL-R	JALPUR A-RANPUR A-MORAK I-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR)  JATI B/B SILERU RAICHUR NIZAMABAD R-KUDGI R-CHIKODI MBEWADI	S/C	10 87 29 0 0 0 328 0 739 0 2	128 0 28 0 WR-NR 498 0 2143 2664 0 0	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3 42.3 0.0 0.0	-1.3 0.9 0.0 0.0 -193.7  -11.8 0.0 -26.3 -42.3 9.0 0.0
45 400 47 48 49 50 50 51 132  Import/Expor 52 HV 53 54 765 55 6 400 57 58 220	VCHAL-R	JALPUR A-RANPUR A-MORAK R-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B .SILERU RAICHUR NIZAMABAD R-KUDGI R-CHIKODI MBEWADI	S/C	10 87 29 0 0 0 328 0 739 0 2	128 0 28 0 WR-NR 498 0 2143 2664 0 0 0 110 WR-SR	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3 42.3 0.0 0.0 0.0	-1.3 0.9 0.0 0.0 -193.7  -11.8 0.0 -26.3 -42.3 9.0 0.0 0.0 1.5
45 400 47 48 49 50 50 51 132  Import/Expor 52 HV 53 54 765 55 6 400 57 58 220	VCHAL-R	JALPUR A-RANPUR A-MORAK R-AURAIYA R-AURAIYA SAWAI MADHOPUR  SR) /ATI B/B .SILERU RAICHUR NIZAMABAD R-KUDGI R-CHIKODI MBEWADI	S/C	10 87 29 0 0 0 328 0 739 0 2	128 0 28 0 WR-NR 498 0 2143 2664 0 0 0 110 WR-SR	0.0 0.9 0.1 0.0 33.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.0 0.1 0.0 227.7 11.8 0.0 26.3 42.3 0.0 0.0 0.0	-1.3 0.9 0.0 0.0 -193.7  -11.8 0.0 -26.3 -42.3 9.0 0.0 0.0 1.5