

National Load Despatch Centre पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Date: 18th Oct, 2015

Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

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

Sub: Daily PSP Report for the date 17.10.2015.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स. - 5.5.1 के प्रावधान के अन्सार, दिनांक 17th Oct 2015 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर निम्न लिंक पर उप्लब्ध है:-

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 17th Oct 2015, is available at the NLDC website.

http://posoco.in/attachments/article/94/18.10.15 NLDC PSP.pdf

Thanking You.

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

Report for previous day Date of Reporting 18-Oct-15

A. Maximum Demand

| | NR | WR | SR | ER | NER | Total |
|--|-------|-------|-------|-------|------|--------|
| Demand Met during Evening Peak hrs(MW) | 43340 | 46679 | 34231 | 18574 | 2228 | 145052 |
| Peak Shortage (MW) | 1838 | 335 | 1550 | 170 | 184 | 4077 |
| Energy Met (MU) | 933 | 1108 | 804 | 363 | 41 | 3248 |
| Hydro Gen(MU) | 161 | 52 | 54 | 55 | 16 | 338 |
| Wind Gen(MU) | 2 | 15 | 9 | | | 26 |

B. Frequency Profile (%)

| Region | <49.2 | <49.7 | 49.7-49.8 | 49.8-49.9 | <49.9 | 49.9-50.05 | > 50.05 |
|----------|-------|-------|-----------|-----------|-------|------------|---------|
| NEW GRID | 0.00 | 0.50 | 5.56 | 31.67 | 37.72 | 56.02 | 6.26 |
| SR GRID | 0.00 | 0.50 | 5.56 | 31.67 | 37.72 | 56.02 | 6.26 |

C.Power Supply Position in States

| | | Max. Demand | Shortage during | Energy | Drawal | OD(+)/ | Max |
|--------------|-------------------|----------------|-----------------|----------|---------------|------------|--------|
| RegionRegion | States | Met during the | maximum Demand | Met (MU) | Schedule (MU) | UD(-) (MU) | OD (MW |
| | | day (MW) | (MW) | Met (MO) | ` ′ | OD(-) (MO) | OD (MW |
| | Punjab | 5263 | 0 | 116.1 | 58.6 | 0.2 | 173 |
| H | Haryana | 7175 | 0 | 138.5 | 73.9 | -0.5 | 305 |
| | Rajasthan | 9695 | 0 | 211.4 | 66.8 | -0.2 | 157 |
| NR | Delhi | 3973 | 0 | 82.5 | 69.5 | -1.1 | 162 |
| | UP | 12944 | 1355 | 282.0 | 121.9 | 0.4 | 287 |
| | Uttarakhand | 1767 | 0 | 34.7 | 18.0 | 1.7 | 237 |
| | HP | 1258 | 0 | 23.8 | 14.0 | 1.0 | 202 |
| | J&K | 2050 | 512 | 39.7 | 26.9 | 1.7 | 266 |
| | Chandigarh | 208 | 0 | 3.8 | 4.1 | -0.2 | 10 |
| | Chhattisgarh | 3698 | 96 | 87.2 | 34.9 | 0.6 | 253 |
| | Gujarat | 14376 | 0 | 317.6 | 61.4 | -0.1 | 273 |
| | MP | 10117 | 0 | 223.4 | 116.7 | -0.8 | 617 |
| WR | Maharashtra | 20609 | 367 | 446.4 | 136.7 | -0.7 | 668 |
| VVIN | Goa | 409 | 0 | 8.6 | 8.2 | 0.3 | 37 |
| | DD | 306 | 0 | 6.8 | 6.7 | 0.1 | 36 |
| | DNH | 679 | 0 | 15.3 | 15.4 | -0.2 | 47 |
| | Essar steel | 131 | 0 | 2.5 | 2.4 | 0.0 | 91 |
| | Andhra Pradesh | 6563 | 0 | 149.3 | 25.1 | 2.1 | 465 |
| | Telangana | 6644 | 0 | 151.8 | 105.2 | -0.2 | 157 |
| SR | Karnataka | 6996 | 1800 | 149.5 | 25.5 | 8.0 | 696 |
| Jit | Kerala | 3487 | 0 | 63.4 | 39.0 | 0.9 | 406 |
| | Tamil Nadu | 12234 | 0 | 283.2 | 124.6 | 3.2 | 388 |
| | Pondy | 338 | 0 | 7.0 | 6.8 | 0.2 | 37 |
| | Bihar | 3301 | 100 | 67.5 | 64.7 | 0.4 | 250 |
| | DVC | 2518 | 0 | 57.8 | -13.1 | -0.2 | 185 |
| ER | Jharkhand | 1089 | 0 | 21.9 | 12.9 | -1.0 | 100 |
| | Odisha | 4232 | 0 | 67.9 | 14.9 | -0.4 | 320 |
| | West Bengal | 7530 | 0 | 146.6 | 44.5 | -1.7 | 300 |
| | Sikkim | 94 | 0 | 1.2 | 0.5 | 0.7 | 30 |
| | Arunachal Pradesh | 116 | 2 | 2.0 | 1.8 | 0.2 | 35 |
| | Assam | 1356 | 80 | 24.9 | 18.3 | 1.6 | 202 |
| | Manipur | 141 | 1 | 2.3 | 2.0 | 0.3 | 35 |
| NER | Meghalaya | 282 | 3 | 4.4 | 2.2 | -0.9 | 63 |
| | Mizoram | 79 | 1 | 1.4 | 1.3 | 0.1 | 14 |
| | Nagaland | 104 | 2 | 1.9 | 1.6 | 0.2 | 24 |
| | Tripura | 238 | 2 | 3.8 | 0.6 | 1.0 | 85 |

 ${\color{red} \textbf{D. Transnational Exchanges} \ (MU) - Import(+ve)/Export(-ve)}$

| | Bhutan | Nepal | Bangladesh |
|------------|--------|--------|------------|
| Actual(MU) | 19.1 | -1.9 | -11.1 |
| Max MW | | -135.0 | -467.0 |

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

| | NR | WR | SR | ER | NER | TOTAL |
|--------------|-------|--------|------|-------|------|-------|
| Schedule(MU) | 165.2 | -162.3 | 75.3 | -74.1 | 2.0 | 6.1 |
| Actual(MU) | 177.8 | -187.3 | 82.0 | -75.5 | 0.1 | -2.9 |
| O/D/U/D(MU) | 12.6 | -25.0 | 6.7 | -1.4 | -1.9 | -8.9 |

F. Generation Outage(MW)

| | NR | WR | SR | ER | NER | Total |
|----------------|-------|-------|------|------|-----|-------|
| Central Sector | 4281 | 10423 | 3710 | 1100 | 21 | 19535 |
| State Sector | 7230 | 11120 | 2684 | 4779 | 110 | 25923 |
| Total | 11511 | 21543 | 6394 | 5879 | 131 | 45458 |

सचिव(ऊर्जा)/ विशेष सचिव(ऊर्जा)/अतिरिक्त सचिव(ऊर्जा)/संयुक्त सचिव(पारेषण)/(ओ एम)/निदेशक(ओ एम)/मुख्य अभियंता-के०वि॰प्रा॰(ग्रि॰प्र॰)/ अध्यक्ष एवं प्रबंध निदेशक (पावरग्रिङ)/मुख्य कार्यपालक अधिकारी(पोसोको)/सभी राज्यो के मुख्य सचिव/ऊर्जा सचिव

| | | INTER-REC | GIONAL | EXCHA | <u>NGES</u> | Date of R | Reporting: | 18-Oct- |
|---|---|--|---|--|--|--|--|---|
| | | | | | | Import=(| +ve) /Export | =(-ve) |
| Sl No | Voltage Level | Line Details | Circuit | Max Import (MW) | Max Export (MW) | Import (MU) | Export (MU) | NET (MU) |
| | Export of | ER (With NR) | 1 | ı | ı | | 1 | |
| 1 | 4 | GAYA-FATEHPUR | S/C | 53 | -315 | 0.0 | -4.0 | -4.0 |
| | 765KV | GAYA-BALIA | S/C | 0 | 0 | 0.0 | -3.3 | -3.3 |
| 2 | | SASARAM-FATEHPUR | S/C | 0 | 0 | 0.3 | 0.0 | 0.3 |
| 3 | HVDC LINK | PUSAULI B/B | S/C | 0 | 0 | 0 | -9 | -9 |
| 4 | | PUSAULI-SARNATH | S/C | 0 | -258 | 0 | 0 | 0 |
| 5 | | PUSAULI -ALLAHABAD | D/C | 0 | -153 | 0 | 0 | 0 |
| 6 | 400 KV | MUZAFFARPUR-GORAKHPUR | D/C | 100 | -441 | 0 | -6 | -6 |
| 7 | - | PATNA-BALIA | Q/C | 31 | -244 | 0 | -8 -3 | -8 |
| 8 | - | BIHARSHARIFF-BALIA BARH-GORAKHPUR | D/C D/C | 0 | -211 0 | 0 | -3 -7 | -3 -7 |
| 10 | 220 KV | PUSAULI-SAHUPURI | S/C | 0 | -218 | 0.0 | -3.8 | -3.8 |
| 11 | 220 11 1 | SONE NAGAR-RIHAND | S/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| 12 | 122 7777 | GARWAH-RIHAND | S/C | 49 | 0 | 0.7 | 0.0 | 0.7 |
| 13 | 132 KV | KARMANASA-SAHUPURI | S/C | 0 | -1 | 0.0 | 0.0 | 0.0 |
| 14 | <u></u> | KARMANASA-CHANDAULI | S/C | 0 | 0 | 0.0 | 0.0 | 0.0 |
| mport/ | Export of | ER (With WR) | | | ER-NR | 0.9 | -43.7 | -42.7 |
| 15 | 1 | JHARSUGUDA-DHARAMJAIGARH S/C | D/C | -714 | 0 | -11.1 | -11.3 | -11.1 |
| 16 | 765 KV | NEW RANCHI-DHARAMJAIGARH | S/C | -99 | 132 | -0.1 | -0.2 | -0.1 |
| 17 | | ROURKELA - RAIGARH (SEL LILO | S/C | 0 | 0 | 3.3 | 0.0 | 3.3 |
| | | BYPASS) JHARSUGUDA-RAIGARH | S/C | 0 | | | | |
| 18 | 400 KV | IBEUL-RAIGARH | S/C | 0 | 0 | 5.8 | 0.0 | 5.8 |
| 20 | - | STERLITE-RAIGARH | D/C | 0 | 0 | 4.1 | -5.9 | -5.9 |
| 21 | - | RANCHI-SIPAT | D/C | 0 | 0 | 0.0 | -0.1 | -0.1 |
| 22 | | BUDHIPADAR-RAIGARH | S/C | 385 | 0 | 4.5 | 0.0 | 4.5 |
| 23 | 220 KV | BUDHIPADAR-KORBA | D/C | 0 | -225 | 0.0 | -2.7 | -2.7 |
| | 1 | | 1 | | ER-WR | 12.4 | -20.2 | -0.5 |
| nport/ | Export of | ER (With SR) | | | | | | |
| 24 | HVDC | JEYPORE-GAZUWAKA B/B | D/C | 0 | -639 | 0 | -15.4 | -15.4 |
| 25 | LINK | TALCHER-KOLAR BIPOLE | D/C | 0 | -2258 | 0 | -48.6 | -48.6 |
| 26 | 400 KV | TALCHER-I/C | | 0 | 0 | 0 | 0 | 0 |
| 27 | 220 KV | BALIMELA-UPPER-SILERRU | S/C | 0 | 0 ED 6D | 0 | 0 | 0 |
| mnort/ | Evnort of | ED (With NED) | | | ER-SR | 0.0 | -64.0 | -64.0 |
| mpor w | Export or | ER (With NER) BINAGURI-BONGAIGAON | | | -196 | _ | 0 1 | |
| | | | O/C | 185 | | | | 2 |
| 27 | 400 KV | | Q/C D/C | 185 | | 0 | -1 | 2 |
| | | BIRPARA-SALAKATI | Q/C D/C | 185 0 | -93 ER-NER | 0 | -1 | -1 |
| 27 28 | 400 KV 220 KV | BIRPARA-SALAKATI | | | -93 | | | |
| 27 28 | 400 KV 220 KV Export of | | | | -93 | 0 | -1 | -1 |
| 27 28 nport/ | 400 KV 220 KV Export of | BIRPARA-SALAKATI NR (With NER) | | 0 | -93 ER-NER | 0 | -1 -1.1 | -1 0.6 |
| 27 28 mport/1 29 | 400 KV 220 KV Export of HVDC | BIRPARA-SALAKATI NR (With NER) | | 0 | -93 ER-NER | 0 1.6 | -1 -1.1 | -1 0.6 |
| 27 28 mport/1 29 | 400 KV 220 KV Export of HVDC | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA | | 0 | -93 ER-NER | 0 1.6 | -1 -1.1 | -1 0.6 |
| 27 28 mport// 29 mport// 30 31 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) VCHAL B/B GWALIOR-AGRA | D/C D/C D/C | 0 0 0 | -93 ER-NER 0 NR-NER -150 -3098 | 0 1.6 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 | -1 0.6 0.0 0.0 |
| 27 28 mport/1 29 mport/1 30 31 32 | Export of HVDC Export of HVDC Export of HVDC 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR | D/C D/C D/C D/C D/C | 0 0 0 0 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 | 0 1.6 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 |
| 27 28 mport/29 mport/3 30 31 32 33 | 400 KV 220 KV 220 KV Export of HVDC HVDC 765 KV 400 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI | D/C D/C D/C D/C D/C S/C | 0 0 0 0 0 0 53 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 |
| 27 28 mport/ 29 mport/ 30 31 32 33 34 | ### 400 KV 220 KV 220 KV 220 KV Export of HVDC HVDC 765 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL | D/C D/C D/C D/C D/C S/C S/C | 0 0 0 0 0 53 33 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 |
| 27 28 mport/ 29 mport/ 30 31 32 33 34 35 | 400 KV 220 KV 220 KV Export of HVDC HVDC 765 KV 400 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL V'CHAL - RIHAND | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 0 53 33 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 |
| 27 28 mport/l 29 30 31 32 33 34 35 36 | ### 400 KV 220 KV 220 KV 220 KV Export of HVDC HVDC 765 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA - BHINMAL V'CHAL - RIHAND BADOD-KOTA | D/C D/C D/C D/C D/C S/C S/C | 0 0 0 0 0 53 33 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 |
| 27 28 mport/ 29 mport/ 30 31 32 33 34 35 36 37 | ### 400 KV 220 KV 220 KV 220 KV Export of HVDC HVDC 765 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 0 53 33 0 76 5 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 | 0 1.6 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 | -3.1 -62.9 -0.8 -0.8 -0.8 -0.8 -0.7 -0.4 |
| 27 28 mport/ 29 mport/ 30 31 32 33 34 35 36 37 38 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 0 53 33 0 76 5 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 | -3.1 -62.9 -18 -0.8 -2.2 -0.0 0.7 -0.4 |
| 27 28 mport/ 29 mport/ 30 31 32 33 34 35 36 37 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 0 53 33 0 76 5 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 | 0 1.6 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 | -3.1 -62.9 -0.8 -0.8 -0.8 -0.8 -0.7 -0.4 |
| 27 28 29 29 30 31 32 33 34 35 36 37 38 39 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA | D/C D/C D/C D/C S/C S/C S/C S/C | 0 0 0 0 0 53 33 0 76 5 100 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 0 0 0 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 | -3.1 -62.9 -18 -0.0 -0.0 -3.1 -62.9 -18 -0.8 -2.2 -0.0 -0.7 -0.4 -1.7 -0.8 |
| 27 28 29 29 30 31 32 33 34 35 36 37 38 39 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR | D/C D/C D/C D/C S/C S/C S/C S/C | 0 0 0 0 0 53 33 0 76 5 100 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 0 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 |
| 27 28 mport// 29 30 31 32 33 34 35 36 37 38 39 40 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 132KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 53 33 0 76 5 100 55 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 0 WR-NR | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -0.4 0.0 0.0 -87.3 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 132KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL VCHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 53 33 0 76 5 100 55 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 0 WR-NR | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -0.4 0.0 0.0 -87.3 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 220 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) VCHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA -BHINMAL VCHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL-MHG WR (With SR) | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 0 WR-NR | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 0.0 -87.3 -53.6 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 |
| 27 28 mport// 29 mport// 33 34 35 36 37 38 39 40 41 mport// 42 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV 400 KV 132KV HVDC HVDC HVDC | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL-MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR | D/C D/C D/C D/C D/C S/C S/C S/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 0 WR-NR -2518 -1000 0 0 -1581 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -0.4 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.8 -3.1 -6.8 -3.1 -6.8 -3.1 -6.8 -3.1 -6.8 -3.1 -6.8 - | -1 0.6 0.0 0.0 -3.1 -62.9 -1.8 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 41 mport// 42 43 44 45 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV 400 KV 132KV HVDC Export of HVDC CLINK 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI | D/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 D/C D/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 WR-NR -2518 -1000 0 -1581 -212 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -87.3 -53.6 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 -23.7 0.0 -28.1 -4.6 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 765 KV 400 KV 400 KV 400 KV 132KV HVDC HVDC HVDC HVDC LINK | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI | D/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 WR-NR -2518 -1000 0 -1581 -212 0 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -87.3 -53.6 -23.7 0.0 -28.1 -4.6 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 -23.7 0.0 -28.1 -4.6 0.0 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 41 mport// 42 43 44 45 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV 400 KV 132KV HVDC Export of HVDC CLINK 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI | D/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 D/C D/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 WR-NR -2518 -1000 0 -1581 -212 0 0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -87.3 -53.6 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 -23.7 0.0 -28.1 -4.6 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 41 41 mport// 42 43 44 45 46 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV 400 KV 132KV HVDC Export of HVDC CLINK 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI | D/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 WR-NR -2518 -1000 0 -1581 -212 0 | 0 1.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -87.3 -53.6 -23.7 0.0 -28.1 -4.6 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 -23.7 0.0 -28.1 -4.6 0.0 |
| 27 28 mport/l 29 30 31 32 33 34 35 36 37 37 38 39 40 41 42 42 43 44 45 46 47 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV 400 KV 132KV HVDC Export of HVDC CLINK 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL -RIHAND BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L.SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI | D/C D/C D/C D/C D/C D/C D/C S/C S/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 WR-NR -2518 -1000 0 -1581 -212 0 0 WR-SR | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -87.3 -53.6 -23.7 0.0 -28.1 -4.6 0.0 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 -23.7 0.0 -28.1 -4.6 0.0 1.6 |
| 27 28 mport// 29 mport// 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46 | 400 KV 220 KV Export of HVDC Export of HVDC 765 KV 400 KV 400 KV 400 KV 132KV HVDC Export of HVDC CLINK 765 KV | BIRPARA-SALAKATI NR (With NER) BISWANATH CHARIALI-AGRA WR (With NR) V'CHAL B/B GWALIOR-AGRA PHAGI-GWALIOR ZERDA-KANKROLI ZERDA-BHINMAL V'CHAL-RIHAND BADOD-KOTA BADOD-KOTA BADOD-MORAK MEHGAON-AURAIYA MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR APL -MHG WR (With SR) BHADRAWATI B/B BARSUR-L-SILERU SOLAPUR-RAICHUR KOLHAPUR-CHIKODI PONDA-AMBEWADI XELDEM-AMBEWADI | D/C D/C D/C D/C D/C D/C D/C S/C S/C | 0 0 0 0 53 33 0 76 5 100 55 0 | -93 ER-NER 0 NR-NER -150 -3098 -1512 -100 -173 0 -3 -100 0 WR-NR -2518 -1000 0 -1581 -212 0 0 WR-SR | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -1 -1.1 0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.0 -0.4 0.0 0.0 -87.3 -53.6 -23.7 0.0 -28.1 -4.6 0.0 0.0 | -1 0.6 0.0 0.0 -3.1 -62.9 -18 -0.8 -2.2 0.0 0.7 -0.4 1.7 0.8 0.0 -84.2 -53.6 -23.7 0.0 -28.1 -4.6 0.0 1.6 |