

| National Load Despatch Centre<br>Total Transfer Capability for May 2024 |                  |                  |                                |                        |                                    |                  |                       |                                  |   |
|---|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|
| Issue Date:May 11 2024  |                  |                  |                                | Issue Time:11:23:50    |                                    |                  |                       | Revision No :11                  |   |
| Corridor  | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment   |
| ER-NER  | 01 May to 03 May | 00:00 to 18:00   | 1360                           | 60                     | 1300                               | NA               |                       | 0                                |   |
|   |                  | 18:00 to 22:00   | 690                            | 60                     | 630                                | NA               |                       | 0                                |   |
|   |                  | 22:00 to 24:00   | 1360                           | 60                     | 1300                               | NA               |                       | 0                                |   |
|   | 04 May to 04 May | 00:00 to 18:00   | 1220                           | 60                     | 1160                               | NA               |                       | 0                                |   |
|   |                  | 18:00 to 22:00   | 550                            | 60                     | 490                                | NA               |                       | 0                                |   |
|   |                  | 22:00 to 24:00   | 1220                           | 60                     | 1160                               | NA               |                       | 0                                |   |
|   | 05 May to 31 May | 00:00 to 18:00   | 1270                           | 60                     | 1210                               | NA               |                       | 0                                |   |
|   |                  | 18:00 to 22:00   | 600                            | 60                     | 540                                | NA               |                       | 0                                |   |
|   |                  | 22:00 to 24:00   | 1270                           | 60                     | 1210                               | NA               |                       | 0                                |   |
| ER-NR   | 01 May to 31 May | 00:00 to 24:00   | 6700                           | 400                    | 6300                               | NA               |                       | 0                                |   |
| ER-SR   | 01 May to 02 May | 00:00 to 06:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 06:00 to 18:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 18:00 to 24:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   | 03 May to 03 May | 00:00 to 10:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 10:00 to 18:00   | 4950                           | 350                    | 4600                               | NA               |                       | 0                                |   |
|   |                  | 18:00 to 24:00   | 4950                           | 350                    | 4600                               | NA               |                       | 0                                |   |
|   | 04 May to 04 May | 00:00 to 06:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 06:00 to 18:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 18:00 to 24:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   | 05 May to 05 May | 00:00 to 08:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 08:00 to 24:00   | 5075                           | 350                    | 4725                               | NA               |                       | 0                                |   |
|   | 06 May to 11 May | 00:00 to 24:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   | 12 May to 12 May | 00:00 to 08:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
|   |                  | 08:00 to 24:00   | 5750                           | 350                    | 5400                               | NA               |                       | 675                              | TTC/ATC revised due to the deferment of shutdown of 500KV HVDC TALCHER-KOLAR POLE-I |
|   | 13 May to 31 May | 00:00 to 24:00   | 5750                           | 350                    | 5400                               | NA               |                       | 0                                |   |
| ER-W3   | 01 May to 31     | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |                  |                       |                                  |   |

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|--------------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
|              | May              |                  |                                |                        |                                    |                  |                       |                                  |         |
| ER-WR        | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |
| NER-ER       | 01 May to 31 May | 00:00 to 17:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
|              |                  | 17:00 to 21:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
|              |                  | 21:00 to 24:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
| NR-ER        | 01 May to 31 May | 00:00 to 06:00   | 4000                           | 300                    | 3700                               | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 4000                           | 300                    | 3700                               | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 4000                           | 300                    | 3700                               | NA               |                       | 0                                |         |
| NR-WR        | 01 May to 09 May | 00:00 to 06:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|              | 10 May to 10 May | 00:00 to 07:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|              |                  | 07:00 to 24:00   | 6250                           | 500                    | 5750                               | NA               |                       | 0                                |         |
|              | 11 May to 31 May | 00:00 to 24:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
| SR-ER        | 01 May to 31 May | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |                  |                       |                                  |         |
| SR-WR        | 01 May to 31 May | 00:00 to 06:00   | 6000                           | 650                    | 5350                               | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 7650                           | 650                    | 7000                               | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 6000                           | 650                    | 5350                               | NA               |                       | 0                                |         |
| W3 Injection | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |
| W3-ER        | 01 May to 31 May | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |                  |                       |                                  |         |
| WR-ER        | 01 May to 31 May | 00:00 to 06:00   | 5500                           | 300                    | 5200                               | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 5500                           | 300                    | 5200                               | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 5500                           | 300                    | 5200                               | NA               |                       | 0                                |         |
| WR-NR        | 01 May to 31 May | 00:00 to 06:00   | 19200                          | 1000                   | 18200                              | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 19200                          | 1000                   | 18200                              | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 19200                          | 1000                   | 18200                              | NA               |                       | 0                                |         |
| WR-SR        | 01 May to 31 May | 00:00 to 06:00   | 16100                          | 650                    | 15450                              | NA               |                       | 0                                |         |
|              |                  | 06:00 to 08:00   | 16400                          | 650                    | 15750                              | NA               |                       | 0                                |         |

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|----------|------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
|          |      | 08:00 to 15:00   | 16100                          | 650                    | 15450                              | NA               |                       | 0                                |         |
|          |      | 15:00 to 17:00   | 16400                          | 650                    | 15750                              | NA               |                       | 0                                |         |
|          |      | 17:00 to 24:00   | 16100                          | 650                    | 15450                              | NA               |                       | 0                                |         |

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- W3 comprises of the following regional entities : a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.
- In case of TTC Revision due to any shutdown : 1) The TTC value will be revised to normal values after restoration of shutdown. 2) The TTC value will be revised to normal values if the shutdown is not being availed in real time.
- Real Time TTC/ATC revisions are uploaded on Grid-India/NLDC "News Update" (Flasher) Section.
- HVDC Raigarh-Pugalur has the ability to be overloaded upto 1.1 P.U. Each Bipole can be operated for 2 hours continuously in a span of twelve hours.
- TTC/ATC of WR-SR, ER-SR & SR Import corridor declared based on operation of any one of two Bipole of HVDC Raigarh-Pugalur to 1.1 pu (3300 MW) during morning 6 – 8 hours and other Bipole to 1.1 pu (3300 MW) during during 15 – 17 hours. These assumptions are taken in view of restriction of maximum power order of HVDC Talcher-Kolar upto 1500 MW till **31st May 2024**.
- With the change in inter-regional flow pattern, significant power flow observed from NR to ER direction during the solar hours. From last 15 days flow pattern, average NR-ER flow observed to be ~1100 MW during the solar hour(09-15 hrs) at the same period of NR-WR flow. Therefore, NR Export TTC for the time period 09-18 hrs is calculated as below

***NR Export TTC = NR-WR TTC (from simulation result) + average NR to ER flow at the time of peak NR-WR flow (from real time data)***

### Simultaneous Import Capability

| Corridor | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| ER       | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | 3112             | 0                     | 0                                |         |
| NER      | 01 May to 03 May | 00:00 to 18:00   | 1860                           | 60                     | 1800                               | 824              | 976                   | 0                                |         |
|          |                  | 18:00 to 22:00   | 1190                           | 60                     | 1130                               | 824              | 306                   | 0                                |         |
|          |                  | 22:00 to 24:00   | 1860                           | 60                     | 1800                               | 824              | 976                   | 0                                |         |
|          | 04 May to 04 May | 00:00 to 18:00   | 1720                           | 60                     | 1660                               | 824              | 836                   | 0                                |         |
|          |                  | 18:00 to 22:00   | 1050                           | 60                     | 990                                | 824              | 166                   | 0                                |         |
|          |                  | 22:00 to 24:00   | 1720                           | 60                     | 1660                               | 824              | 836                   | 0                                |         |
|          | 05 May to 31 May | 00:00 to 18:00   | 1770                           | 60                     | 1710                               | 824              | 886                   | 0                                |         |
|          |                  | 18:00 to 22:00   | 1100                           | 60                     | 1040                               | 824              | 216                   | 0                                |         |
|          |                  | 22:00 to 24:00   | 1770                           | 60                     | 1710                               | 824              | 886                   | 0                                |         |
| NR       | 01 May to 31 May | 00:00 to 06:00   | 25900                          | 1400                   | 24500                              | 17344            | 7156                  | 0                                |         |
|          |                  | 06:00 to 18:00   | 25900                          | 1400                   | 24500                              | 17344            | 7156                  | 0                                |         |

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|----------------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|---|---------|
|                |                  | 18:00 to 24:00   | 25900                          | 1400                   | 24500                              | 17344            | 7156                  | 0   |         |
| SR             | 01 May to 02 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 06:00 to 08:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 08:00 to 15:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 15:00 to 17:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 17:00 to 24:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                | 03 May to 03 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 06:00 to 08:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 08:00 to 10:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 10:00 to 15:00   | 21050                          | 1000                   | 20050                              | 7601             | 12449                 | 0   |         |
|                |                  | 15:00 to 17:00   | 21350                          | 1000                   | 20350                              | 7601             | 12749                 | 0   |         |
|                |                  | 17:00 to 24:00   | 21050                          | 1000                   | 20050                              | 7601             | 12449                 | 0   |         |
|                | 04 May to 04 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 06:00 to 08:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 08:00 to 15:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 15:00 to 17:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 17:00 to 24:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                | 05 May to 05 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 06:00 to 08:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 08:00 to 15:00   | 21175                          | 1000                   | 20175                              | 7601             | 12574                 | 0   |         |
|                |                  | 15:00 to 17:00   | 21475                          | 1000                   | 20475                              | 7601             | 12874                 | 0   |         |
|                |                  | 17:00 to 24:00   | 21175                          | 1000                   | 20175                              | 7601             | 12574                 | 0   |         |
|                | 06 May to 11 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 06:00 to 08:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 08:00 to 15:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                |                  | 15:00 to 17:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0   |         |
|                |                  | 17:00 to 24:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
|                | 12 May to 12 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0   |         |
| 06:00 to 08:00 |                  | 22150            | 1000                           | 21150                  | 7601                               | 13549            | 0                     |   |         |
| 08:00 to 15:00 |                  | 21850            | 1000                           | 20850                  | 7601                               | 13249            | 675                   | TTC/ATC revised due to the deferment of shutdown of |         |

| Corridor | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment                         |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------------------------------|
|          |                  |                  |                                |                        |                                    |                  |                       |                                  | 500KV HVDC TALCHER-KOLAR POLE-I |
|          |                  | 15:00 to 17:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 675                              |                                 |
|          |                  | 17:00 to 24:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 675                              |                                 |
|          | 13 May to 31 May | 00:00 to 06:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0                                |                                 |
|          |                  | 06:00 to 08:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0                                |                                 |
|          |                  | 08:00 to 15:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0                                |                                 |
|          |                  | 15:00 to 17:00   | 22150                          | 1000                   | 21150                              | 7601             | 13549                 | 0                                |                                 |
|          |                  | 17:00 to 24:00   | 21850                          | 1000                   | 20850                              | 7601             | 13249                 | 0                                |                                 |
| WR       |                  | 01 May to 31 May | 00:00 to 24:00                 | NA                     | NA                                 |                  | 7813                  | 0                                | 0                               |

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
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- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- W3 comprises of the following regional entities : a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
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### Simultaneous Export Capability

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|----------------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| ER             | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |
| NER            | 01 May to 31 May | 00:00 to 17:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
|                |                  | 17:00 to 21:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
|                |                  | 21:00 to 24:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
| NR             | 01 May to 09 May | 00:00 to 09:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|                |                  | 09:00 to 18:00   | 7800                           | 500                    | 7300                               | NA               |                       | 0                                |         |
|                |                  | 18:00 to 24:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|                | 10 May to 10 May | 00:00 to 07:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|                |                  | 07:00 to 09:00   | 6250                           | 500                    | 5750                               | NA               |                       | 0                                |         |
|                |                  | 09:00 to 18:00   | 7350                           | 500                    | 6850                               | NA               |                       | 0                                |         |
|                |                  | 18:00 to 24:00   | 6250                           | 500                    | 5750                               | NA               |                       | 0                                |         |
|                | 11 May to 31 May | 00:00 to 09:00   | 6700                           | 500                    | 6200                               | NA               |                       | 0                                |         |
|                |                  | 09:00 to 18:00   | 7800                           | 500                    | 7300                               | NA               |                       | 0                                |         |
| 18:00 to 24:00 |                  | 6700             | 500                            | 6200                   | NA                                 |                  | 0                     |                                  |         |
| SR             | 01 May to 31 May | 00:00 to 06:00   | 5150                           | 650                    | 4500                               | NA               |                       | 0                                |         |
|                |                  | 06:00 to 18:00   | 6600                           | 650                    | 5950                               | NA               |                       | 0                                |         |
|                |                  | 18:00 to 24:00   | 5150                           | 650                    | 4500                               | NA               |                       | 0                                |         |
| WR             | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |

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## Limiting Constraints

| Corridor   | Constraints   | Revisions |
|------------|---|-----------|
| WR-NR      | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit   | 0-11      |
| NR-ER      | 1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka – Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2  | 0-11      |
| WR-ER      | 1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka – Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2  | 0-11      |
| ER-NR      | Inter-regional flow pattern towards NR  | 0-11      |
| WR-SR      | Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT  | 0-11      |
| ER-SR      | 1. Low Voltage at Gazuwaka (East) Bus.  | 0-11      |
| SR-WR      | a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– A at Raigarh - PS(Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direction (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa | 0-11      |
| ER-NER     | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C   | 0-11      |
| NER-ER     | a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon- New Siliguri DC  | 0-11      |
| NR_IMPORT  | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit   | 0-11      |
| NR_EXPORT  | Outage of any one of the two circuits from 400 kV Kankroli to 400 kV Zerda shall overload the other circuit.  | 0-11      |
| NER_IMPORT | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C   | 0-11      |
| NER_EXPORT | a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon- New Siliguri DC  | 0-11      |
| SR_IMPORT  | 1. Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT 2. Low Voltage at Gazuwaka (East) Bus   | 0-11      |
| SR_EXPORT  | a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– A at Raigarh - PS(Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direction (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa | 0-11      |

## Revision Summary

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment  | Corridor Affected |
|----------|------------------|--------------------|--|-------------------|
| 1        | 28 Dec           | 01 May to 31 May   | Change in T-GNA Margin due to grant of additional 174 MW GNA to Uttar Pradesh from outside Northern Region | NR_IMPORT         |
|          |                  | 01 May to 31 May   | Change in T-GNA Margin due to grant of additional 55 MW GNA to Mizoram from outside North Eastern Region   | NER_IMPORT        |
| 2        | 26 Jan           | 01 May to 31 May   | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR    | WR-NR             |

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment  | Corridor Affected |
|----------|------------------|--------------------|--|-------------------|
|          |                  | 01 May to 31 May   | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR  | ER-NR             |
|          |                  | 01 May to 31 May   | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB  | WR-SR             |
|          |                  | 01 May to 31 May   | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB  | ER-SR             |
|          |                  | 01 May to 31 May   | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR  | NR_IMPORT         |
|          |                  | 01 May to 31 May   | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB  | SR_IMPORT         |
| 3        | 28 Feb           | 01 May to 31 May   | Revised T-GNA margin due to approval of 500 MW GNA for Andhra Pradesh from Outside Southern Region   | SR_IMPORT         |
| 4        | 28 Mar           | 01 May to 31 May   | Enhancement in TTC due to Bypassing of 400 kV Kankroli - Bhinmal and 400 kV Bhinmal - Zerda at Bhinmal - PG (Temporary Arrangement) & revival of 400 KV Jodhpur-Kankroli-S/C after reconductoring  | NR-WR             |
|          |                  | 01 May to 31 May   | TTC/ATC revised due to operation of any one of two bipole of HVDC Raigarh Pugalur to its overload capacity (1.1 PU) in forward direction (West to South) for 2 hrs.  | WR-SR             |
|          |                  | 01 May to 31 May   | TTC/ATC curtailed due to restriction on power order of HVDC Talcher Kolar by 500 MW till 31st May 2024   | ER-SR             |
|          |                  | 01 May to 31 May   | TTC/ATC revised due to operation of any one of two bipole of HVDC Raigarh Pugalur to its overload capacity (1.1 PU) in forward direction (West to South) for 2 hrs & restriction on power order of HVDC Talcher Kolar by 500 MW till 31st May 2024 | SR_IMPORT         |
|          |                  | 01 May to 31 May   | Enhancement in TTC due to Bypassing of 400 kV Kankroli - Bhinmal and 400 kV Bhinmal - Zerda at Bhinmal - PG (Temporary Arrangement) & revival of 400 KV Jodhpur-Kankroli-S/C after reconductoring  | NR_EXPORT         |
| 5        | 28 Apr           | 01 May to 31 May   | Enhancement in TTC/ATC due to the commissioning of 400 KV Chittorgarh-Neemuch-PS-D/C   | NR-WR             |
|          |                  | 01 May to 31 May   | 1. Revised T-GNA margin due to approval of 6.54 MW GNA for Arunachal Pradesh from Outside North-Eastern Region. 2. Revised T-GNA margin due to approval of 371 MW GNA for Assam from Outside North-Eastern Region                                  | NER_IMPORT        |
|          |                  | 01 May to 31 May   | Revised T-GNA margin due to approval of 25 MW GNA for Goa from Outside Western Region  | WR_IMPORT         |
|          |                  | 01 May to 31 May   | Revised T-GNA margin due to approval of 500 MW GNA for Karnataka from Outside Southern Region  | SR_IMPORT         |
|          |                  | 01 May to 31 May   | Enhancement in TTC/ATC due to the commissioning of 400 KV Chittorgarh-Neemuch-PS-D/C   | NR_EXPORT         |
|          |                  | 01 May to 31 May   | Revised T-GNA margin due to approval of 24 MW GNA for West Bengal from Outside Eastern Region  | ER_IMPORT         |
| 6        | 29 Apr           | 01 May to 03 May   | TTC/ATC revised due to change in LGB and shutdown of OTPC Palatana Module 2  | ER-NER            |
|          |                  | 01 May to 31 May   | TTC/ATC revised due to change in LGB   | NER-ER            |
|          |                  | 01 May to 03 May   | TTC/ATC revised due to change in LGB and shutdown of OTPC Palatana Module 2  | NER_IMPORT        |
|          |                  | 01 May to 31 May   | TTC/ATC revised due to change in LGB   | NER_EXPORT        |
| 7        | 01 May           | 03 May to 03 May   | TTC/ATC curtailed due to shutdown of 765KV-ANGUL-SRIKAKULAM-1  | ER-SR             |
|          |                  | 03 May to 03 May   | TTC/ATC curtailed due to shutdown of 765KV-ANGUL-SRIKAKULAM-1  | SR_IMPORT         |
| 8        | 04 May           | 05 May to 05 May   | TTC/ATC revised due to shutdown of HVDC 500KV KOLAR POLE 1   | ER-SR             |
|          |                  | 05 May to 31 May   | Due to revival of OTPC Palatana Module 2   | ER-NER            |
|          |                  | 05 May to 31 May   | Due to revival of OTPC Palatana Module 2   | NER_IMPORT        |
|          |                  | 05 May to 05 May   | TTC/ATC revised due to shutdown of HVDC 500KV KOLAR POLE 1   | SR_IMPORT         |
| 9        | 08 May           | 10 May to 10 May   | TTC/ATC curtailed due to the shutdown of 400KV-RAPP - SHUJALPUR-1  | NR-WR             |
|          |                  | 10 May to 10 May   | TTC/ATC curtailed due to the shutdown of 400KV-RAPP - SHUJALPUR-1  | NR_EXPORT         |

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment   | Corridor Affected |
|----------|------------------|--------------------|---|-------------------|
| 10       | 10 May           | 12 May to 12 May   | TTC/ATC curtailed due to the shutdown of 500KV HVDC TALCHER-KOLAR POLE-I            | ER-SR             |
|          |                  | 12 May to 12 May   | TTC/ATC curtailed due to the shutdown of 500KV HVDC TALCHER-KOLAR POLE-I            | SR_IMPORT         |
| 11       | 11 May           | 12 May to 12 May   | TTC/ATC revised due to the deferment of shutdown of 500KV HVDC TALCHER-KOLAR POLE-I | ER-SR             |
|          |                  | 12 May to 12 May   | TTC/ATC revised due to the deferment of shutdown of 500KV HVDC TALCHER-KOLAR POLE-I | SR_IMPORT         |
| 12       | 13 May           | 15 May to 15 May   | Due to the shutdown of 765 kV Ajmer - Bhadla - II D/C                               | NR-WR             |
|          |                  | 15 May to 15 May   | Due to the shutdown of 765 kV Ajmer - Bhadla - II D/C                               | NR_EXPORT         |

| ASSUMPTIONS IN BASECASE |                            |                    |                 |                    |                 |
|-------------------------|----------------------------|--------------------|-----------------|--------------------|-----------------|
| Month : May'24          |                            |                    |                 |                    |                 |
| S.No.                   | Name of State/Area         | Demand             |                 | Generation         |                 |
|                         |                            | Non-Solar Peak(MW) | Solar Peak (MW) | Non-Solar Peak(MW) | Solar Peak (MW) |
| I                       | NORTHERN REGION            |                    |                 |                    |                 |
| 1                       | Punjab                     | 7031               | 7510            | 4881               | 4940            |
| 2                       | Haryana                    | 7418               | 7386            | 3037               | 3499            |
| 3                       | Rajasthan                  | 13248              | 16311           | 8225               | 10042           |
| 4                       | Delhi                      | 4405               | 5136            | 564                | 545             |
| 5                       | Uttar Pradesh              | 22062              | 18685           | 10734              | 11973           |
| 6                       | Uttarakhand                | 2375               | 2108            | 694                | 463             |
| 7                       | Himachal Pradesh           | 1985               | 1936            | 474                | 302             |
| 8                       | Jammu & Kashmir            | 3311               | 2984            | 264                | 206             |
| 9                       | Chandigarh                 | 266                | 258             | 0                  | 0               |
| 10                      | ISGS/IPPs                  | 105                | 105             | 18638              | 22308           |
|                         | Total NR                   | 62206              | 62419           | 47511              | 54278           |
| II                      | EASTERN REGION             |                    |                 |                    |                 |
| 1                       | Bihar                      | 5063               | 4065            | 464                | 458             |
| 2                       | Jharkhand                  | 1407               | 1559            | 410                | 365             |
| 3                       | Damodar Valley Corporation | 3416               | 3284            | 5273               | 5244            |
| 4                       | Orissa                     | 5269               | 4919            | 3608               | 3496            |
| 5                       | West Bengal                | 7175               | 6925            | 6049               | 5781            |
| 6                       | Sikkim                     | 116                | 109             | 0                  | 0               |
| 7                       | Bhutan                     | 32                 | 50              | 107                | 228             |
| 8                       | ISGS/IPPs                  | 928                | 917             | 18890              | 15263           |
|                         | Total ER                   | 23406              | 21828           | 34802              | 30835           |
| III                     | WESTERN REGION             |                    |                 |                    |                 |
| 1                       | Maharashtra                | 24878              | 25141           | 15943              | 16380           |
| 2                       | Gujarat                    | 18292              | 17984           | 6324               | 6349            |
| 3                       | Madhya Pradesh             | 15567              | 16371           | 6053               | 6073            |
| 4                       | Chattisgarh                | 4447               | 4465            | 1823               | 1592            |
| 5                       | DD & DNH                   | 984                | 867             | 0                  | 0               |
| 6                       | Goa-WR                     | 660                | 554             | 0                  | 0               |
| 7                       | ISGS/IPPs                  | 2463               | 1937            | 53004              | 49159           |
|                         | Total WR                   | 67290              | 67320           | 83147              | 79553           |
| IV                      | SOUTHERN REGION            |                    |                 |                    |                 |
| 1                       | Andhra Pradesh             | 8005               | 10681           | 6952               | 8203            |
| 2                       | Telangana                  | 10834              | 14680           | 5212               | 6980            |
| 3                       | Karnataka                  | 12118              | 15214           | 6579               | 9390            |
| 4                       | Tamil Nadu                 | 16381              | 16743           | 6524               | 9609            |
| 5                       | Kerala                     | 4221               | 3432            | 1510               | 340             |

|   |                      |        |        |        |        |
|---|----------------------|--------|--------|--------|--------|
| 6 | Pondy                | 493    | 494    | 0      | 0      |
| 7 | Goa-SR               | 109    | 109    | 0      | 0      |
| 8 | ISGS/IPPs            | 0      | 0      | 19847  | 21748  |
|   | Total SR             | 52162  | 61353  | 46623  | 56270  |
|   |                      |        |        |        |        |
| V | NORTH-EASTERN REGION |        |        |        |        |
| 1 | Arunachal Pradesh    | 166    | 101    | 0      | 0      |
| 2 | Assam                | 1441   | 1146   | 275    | 428    |
| 3 | Manipur              | 262    | 139    | 0      | 0      |
| 4 | Meghalaya            | 471    | 350    | 144    | 12     |
| 5 | Mizoram              | 171    | 141    | 33     | 8      |
| 6 | Nagaland             | 158    | 120    | 15     | 7      |
| 7 | Tripura              | 369    | 318    | 190    | 187    |
| 8 | ISGS/IPPs            | 0      | 0      | 3308   | 2557   |
|   | Total NER            | 3038   | 2314   | 3964   | 3200   |
|   |                      |        |        |        |        |
|   | Total All India      | 208065 | 215177 | 215925 | 223878 |