

| National Load Despatch Centre<br>Total Transfer Capability for May 2023 |                  |                  |                                |                        |                                    |   |   |                                  |   |
|---|------------------|------------------|--------------------------------|------------------------|------------------------------------|---|---|----------------------------------|---|
| Issue Date:Feb 28 2023  |                  |                  |                                | Issue Time:14:17:20    |                                    |   | Revision No :1                                    |                                  |   |
| Corridor  | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Long Term Access(LTA)/Medium Term Open Access(MTOA) | Margin Available For Short Term Open Access(STOA) | Chnages w.r.t. Previous Revision | Comment   |
| ER-NER  | 01 May to 31 May | 00:00 to 07:00   | 935                            | 60                     | 875                                | 455   | 420   | 0                                |   |
|   |                  | 07:00 to 12:00   | 1025                           | 60                     | 965                                | 455   | 510   | 0                                |   |
|   |                  | 12:00 to 17:00   | 1000                           | 60                     | 940                                | 455   | 485   | 0                                |   |
|   |                  | 17:00 to 21:00   | 790                            | 60                     | 730                                | 455   | 275   | 0                                |   |
|   |                  | 21:00 to 24:00   | 935                            | 60                     | 875                                | 455   | 420   | 0                                |   |
| ER-NR   | 01 May to 31 May | 00:00 to 24:00   | 8000                           | 400                    | 7600                               | 5188  | 2412  | 0                                | Revised STOA margin due to decrease in allocation by 28.1 MW from KAHALGAON STPS STAGE II to Uttrakhand |
| ER-SR   | 01 May to 31 May | 00:00 to 06:00   | 5700                           | 350                    | 5350                               | 3250  | 2100  | 0                                |   |
|   |                  | 06:00 to 18:00   | 5700                           | 350                    | 5350                               | 3316  | 2034  | 0                                |   |
|   |                  | 18:00 to 24:00   | 5700                           | 350                    | 5350                               | 3250  | 2100  | 0                                |   |
| ER-W3   | 01 May to 31 May | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |   |   |                                  |   |
| NER-ER  | 01 May to 31 May | 00:00 to 07:00   | 3285                           | 60                     | 3225                               | 258   | 2967  | 0                                |   |
|   |                  | 07:00 to 12:00   | 3295                           | 60                     | 3235                               | 258   | 2977  | 0                                |   |
|   |                  | 12:00 to 17:00   | 3260                           | 60                     | 3200                               | 258   | 2942  | 0                                |   |
|   |                  | 17:00 to 21:00   | 3235                           | 60                     | 3175                               | 258   | 2917  | 0                                |   |
|   |                  | 21:00 to 24:00   | 3285                           | 60                     | 3225                               | 258   | 2967  | 0                                |   |
| NR-ER   | 01 May to 31 May | 00:00 to 06:00   | 2000                           | 200                    | 1800                               | 125   | 1675  | 0                                |   |
|   |                  | 06:00 to 18:00   | 2000                           | 200                    | 1800                               | 1990  | 0   | 0                                |   |
|   |                  | 18:00 to 24:00   | 2000                           | 200                    | 1800                               | 125   | 1675  | 0                                |   |
| NR-WR   | 01 May           | 00:00 to 06:00   | 4000                           | 500                    | 3500                               | 1232  | 2268  | 0                                |   |

| Corridor     | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Long Term Access(LTA)/Medium Term Open Access(MTOA) | Margin Available For Short Term Open Access(STOA) | Chnages w.r.t. Previous Revision | Comment |
|--------------|------------------|------------------|--------------------------------|------------------------|------------------------------------|---|---|----------------------------------|---------|
|              | to 31 May        | 06:00 to 18:00   | 4000                           | 500                    | 3500                               | 5035  | 0   | 0                                |         |
|              |                  | 18:00 to 24:00   | 4000                           | 500                    | 3500                               | 1232  | 2268  | 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   | 7400                           | 650                    | 6750                               | 852   | 5898  | 0                                |         |
|              |                  | 06:00 to 18:00   | 7400                           | 650                    | 6750                               | 1052  | 5698  | 0                                |         |
|              |                  | 18:00 to 24:00   | 7400                           | 650                    | 6750                               | 852   | 5898  | 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-NR        | 01 May to 31 May | 00:00 to 06:00   | 17800                          | 1000                   | 16800                              | 11135   | 5665  | 0                                |         |
|              |                  | 06:00 to 18:00   | 17800                          | 1000                   | 16800                              | 11434   | 5366  | 0                                |         |
|              |                  | 18:00 to 24:00   | 17800                          | 1000                   | 16800                              | 11135   | 5665  | 0                                |         |
| WR-SR        | 01 May to 31 May | 00:00 to 06:00   | 11600                          | 650                    | 10950                              | 3611  | 7339  | 0                                |         |
|              |                  | 06:00 to 18:00   | 11600                          | 650                    | 10950                              | 4573  | 6377  | 0                                |         |
|              |                  | 18:00 to 24:00   | 11600                          | 650                    | 10950                              | 3611  | 7339  | 0                                |         |

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

\*\*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.

1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala 2) 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) Korba, j) Sipat, k) KSK Mahanadi, L)DB Power, m) KWPC, n)Vandana Vidyut o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

# The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned the LTA/MTOA utilized 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 POSOCO/NLDC "News Update" (Flasher) Section

^Though 3X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of WR-SR and ER-SR corridor has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.

^In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka SLDC by taking appropriate measures.

SR-WR TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS..

### Simultaneous Import Capability

| Corridor | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Long Term Access(LTA)/Medium Term Open Access(MTOA) | Margin Available For Short Term Open Access(STOA) | Chnages w.r.t. Previous Revision | Comment   |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|---|---|----------------------------------|---|
| ER       | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA  |   | 0                                |   |
| NER      | 01 May to 31 May | 00:00 to 07:00   | 935                            | 60                     | 875                                | 455   | 420   | 0                                |   |
|          |                  | 07:00 to 12:00   | 1025                           | 60                     | 965                                | 455   | 510   | 0                                |   |
|          |                  | 12:00 to 17:00   | 1000                           | 60                     | 940                                | 455   | 485   | 0                                |   |
|          |                  | 17:00 to 21:00   | 790                            | 60                     | 730                                | 455   | 275   | 0                                |   |
|          |                  | 21:00 to 24:00   | 935                            | 60                     | 875                                | 455   | 420   | 0                                |   |
| NR       | 01 May to 31 May | 00:00 to 06:00   | 25800                          | 1400                   | 24400                              | 16323   | 8077  | 0                                | Revised STOA margin due to decrease in allocation by 28.1 MW from KAHALGAON STPS STAGE II to Uttrakhand |
|          |                  | 06:00 to 18:00   | 25800                          | 1400                   | 24400                              | 16622   | 7778  | 0                                |   |
|          |                  | 18:00 to 24:00   | 25800                          | 1400                   | 24400                              | 16323   | 8077  | 0                                |   |
| SR       | 01 May to 31 May | 00:00 to 06:00   | 17300                          | 1000                   | 16300                              | 6862  | 9438  | 0                                |   |
|          |                  | 06:00 to 18:00   | 17300                          | 1000                   | 16300                              | 7889  | 8411  | 0                                |   |

| Corridor | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Long Term Access(LTA)/Medium Term Open Access(MTOA) | Margin Available For Short Term Open Access(STOA) | Chnages w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|---|---|----------------------------------|---------|
| WR       | 01 May to 31 May | 18:00 to 24:00   | 17300                          | 1000                   | 16300                              | 6862  | 9438  | 0                                |         |
|          |                  | 00:00 to 24:00   | NA                             | NA                     |                                    |   | 0   | 0                                |         |

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

\*\*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.

\* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio: Margin in Simultaneous import of NR = A WR-NR ATC =B ER-NR ATC = C Margin for WR-NR applicants = A \* B/(B+C) Margin for ER-NR Applicants = A \* C/(B+C)

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

#Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of SR Import has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation

In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka by taking appropriate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS..

### Simultaneous Export Capability

| Corridor | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Long Term Access(LTA)/Medium Term Open Access(MTOA) | Margin Available For Short Term Open Access(STOA) | Chnages w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|---|---|----------------------------------|---------|
| ER       | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA  |   | 0                                |         |
| NER      | 01 May to 31 May | 00:00 to 07:00   | 3285                           | 60                     | 3225                               | 258   | 2967  | 0                                |         |
|          |                  | 07:00 to 12:00   | 3295                           | 60                     | 3235                               | 258   | 2977  | 0                                |         |
|          |                  | 12:00 to 17:00   | 3260                           | 60                     | 3200                               | 258   | 2942  | 0                                |         |
|          |                  | 17:00 to 21:00   | 3235                           | 60                     | 3175                               | 258   | 2917  | 0                                |         |
|          |                  | 21:00 to 24:00   | 3285                           | 60                     | 3225                               | 258   | 2967  | 0                                |         |
| NR       | 01 May to 31 May | 00:00 to 06:00   | 4000                           | 500                    | 3500                               | 1357  | 2143  | 0                                |         |
|          |                  | 06:00 to 18:00   | 4000                           | 500                    | 3500                               | 7025  | 0   | 0                                |         |
|          |                  | 18:00 to 24:00   | 4000                           | 500                    | 3500                               | 1357  | 2143  | 0                                |         |

| Corridor | Date             | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Long Term Access(LTA)/Medium Term Open Access(MTOA) | Margin Available For Short Term Open Access(STOA) | Chnages w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|---|---|----------------------------------|---------|
| SR       | 01 May to 31 May | 00:00 to 06:00   | 6350                           | 650                    | 5700                               | 1970  | 3730  | 0                                |         |
|          |                  | 06:00 to 18:00   | 6350                           | 650                    | 5700                               | 2320  | 3380  | 0                                |         |
|          |                  | 18:00 to 24:00   | 6350                           | 650                    | 5700                               | 1970  | 3730  | 0                                |         |
| WR       | 01 May to 31 May | 00:00 to 24:00   | NA                             | NA                     |                                    | NA  |   | 0                                |         |

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

^SR Export TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

**Limiting Constraints**

| Corridor   | Constraints   | Revisions |
|------------|---|-----------|
| WR-NR      | N-1 contingency of one ckt of 765 kV Vindhychal-Varanasi will overload the other circuit  | 0-1       |
| NR-ER      | (n-1) contingency of 400 kV Saranath-Pusauli  | 0-1       |
| ER-NR      | Inter-regional flow pattern towards NR  | 0-1       |
| WR-SR      | N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT   | 0-1       |
| ER-SR      | Low Voltage at Gazuwaka (East) Bus.   | 0-1       |
| SR-WR      | a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs | 0-1       |
| ER-NER     | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C  | 0-1       |
| NER-ER     | a) N-1 contingency of 220 kV Salakati - BTPS I or II b) High Loading of 220 kV Salakati - BTPS II or I  | 0-1       |
| NR_IMPORT  | N-1 contingency of one ckt of 765 kV Vindhychal-Varanasi will overload the other circuit  | 0-1       |
| NR_EXPORT  | (N-1) Contingency of 400 kV Kankroli-Zerda-S/C will overload 400 KV Bhinmal-Zerda-S/C   | 0-1       |
| NER_IMPORT | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C  | 0-1       |
| NER_EXPORT | a) N-1 contingency of 220 kV Salakati - BTPS I or II b) High Loading of 220 kV Salakati - BTPS II or I  | 0-1       |
| SR_IMPORT  | N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT Low Voltage at Gazuwaka (East) Bus  | 0-1       |
| SR_EXPORT  | N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt   | 0-1       |

**Revision Summary**

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment   | Corridor Affected |
|----------|------------------|--------------------|---|-------------------|
| 1        | 28 Feb           | 01 May to 31 May   | Revised STOA margin due to decrease in allocation by 28.1 MW from KAHALGAON STPS STAGE II to Uttrakhand | ER-NR             |
|          |                  | 01 May to 31 May   | Revised STOA margin due to decrease in allocation by 28.1 MW from KAHALGAON STPS STAGE II to Uttrakhand | NR_IMPORT         |

|               |  |  |        |        |
|---------------|--|--|--------|--------|
| BASECASE LGBR |  |  |        |        |
|               |  |  | Month: | May'23 |

| S.No. | Name of State/Region       | Load           |                    | Generation |               |
|-------|----------------------------|----------------|--------------------|------------|---------------|
|       |                            | Peak Load (MW) | Off Peak Load (MW) | Peak (MW)  | Off Peak (MW) |
| I     | NORTHERN REGION            |                |                    |            |               |
| 1     | Punjab                     | 6187           | 4320               | 4431       | 2467          |
| 2     | Haryana                    | 6301           | 4633               | 2327       | 2029          |
| 3     | Rajasthan                  | 14634          | 8276               | 8964       | 6149          |
| 4     | Delhi                      | 4138           | 1632               | 530        | 506           |
| 5     | Uttar Pradesh              | 15439          | 10852              | 10732      | 7505          |
| 6     | Uttarakhand                | 1894           | 1473               | 383        | 297           |
| 7     | Himachal Pradesh           | 1707           | 1017               | 546        | 240           |
| 8     | Jammu & Kashmir            | 2488           | 2157               | 236        | 227           |
| 9     | Chandigarh                 | 197            | 89                 | 0          | 0             |
| 10    | ISGS/PPs                   | 53             | 52                 | 21207      | 9340          |
|       | Total NR                   | 53038          | 34501              | 49356      | 28761         |
| II    | EASTERN REGION             |                |                    |            |               |
| 1     | Bihar                      | 4303           | 3220               | 484        | 409           |
| 2     | Jharkhand                  | 1498           | 1268               | 436        | 409           |
| 3     | Damodar Valley Corporation | 3224           | 3002               | 5182       | 4218          |
| 4     | Odisha                     | 5447           | 4870               | 3217       | 2628          |
| 5     | West Bengal                | 5848           | 4471               | 5542       | 4582          |
| 6     | Sikkim                     | 103            | 55                 | 0          | 0             |
| 7     | Bhutan                     | 57             | 56                 | 107        | 68            |
| 8     | ISGS/PPs                   | 748            | 698                | 14253      | 11518         |
|       | Total ER                   | 21230          | 17642              | 29221      | 23833         |
| III   | WESTERN REGION             |                |                    |            |               |
| 1     | Maharashtra                | 24497          | 17173              | 16678      | 12825         |
| 2     | Gujarat                    | 18565          | 15139              | 8330       | 8534          |
| 3     | Madhya Pradesh             | 15672          | 9581               | 6140       | 4836          |
| 4     | Chattisgarh                | 4723           | 3510               | 2439       | 2625          |
| 5     | Daman and Diu              | 0              | 0                  | 0          | 0             |
| 6     | Dadra and Nagar Haveli     | 903            | 910                | 0          | 0             |
| 7     | Goa-WR                     | 538            | 427                | 0          | 0             |
| 8     | ISGS/PPs                   | 5326           | 4186               | 46483      | 31327         |
|       | Total WR                   | 70222          | 50926              | 80070      | 60147         |
| IV    | SOUTHERN REGION            |                |                    |            |               |
| 1     | Andhra Pradesh             | 10976          | 7444               | 6488       | 4721          |
| 2     | Telangana                  | 12210          | 9955               | 7160       | 4955          |
| 3     | Karnataka                  | 13204          | 8407               | 7228       | 5718          |
| 4     | Tamil Nadu                 | 16464          | 13330              | 9475       | 5630          |
| 5     | Kerala                     | 3474           | 3023               | 1037       | 583           |
| 6     | Pondy                      | 385            | 377                | 0          | 0             |
| 7     | Goa-SR                     | 90             | 88                 | 0          | 0             |
| 8     | ISGS/PPs                   | 0              | 0                  | 19219      | 15358         |
|       | Total SR                   | 56804          | 42625              | 50606      | 36964         |
| V     | NORTH-EASTERN REGION       |                |                    |            |               |
| 1     | Arunachal Pradesh          | 123            | 94                 | 7          | 7             |
| 2     | Assam                      | 1193           | 1068               | 289        | 292           |
| 3     | Manipur                    | 188            | 118                | 0          | 0             |

|   |                 |        |        |        |        |
|---|-----------------|--------|--------|--------|--------|
| 4 | Meghalaya       | 367    | 288    | 100    | 24     |
| 5 | Mizoram         | 92     | 63     | 33     | 54     |
| 6 | Nagaland        | 160    | 162    | 18     | 17     |
| 7 | Tripura         | 214    | 229    | 164    | 159    |
| 8 | ISGS/IPPs       | 0      | 0      | 2248   | 2153   |
|   | Total NER       | 2338   | 2022   | 2859   | 2707   |
|   |                 |        |        |        |        |
|   | Total All India | 203632 | 147716 | 212112 | 152412 |