**National Load Despatch Centre**

**Total Transfer Capability for April 2022**

Issue Date: 28th December, 2021 Issue Time: 1700 hrs Revision No. 0

| Corridor | Date | Time Period (hrs) | Total Transfer Capability (TTC) | Reliability Margin | Available Transfer Capability (ATC) | Long Term Access (LTA)/ Medium Term Open Access (MTOA) # | Margin Available for Short Term Open Access (STOA) | Changes in TTC w.r.t. Last Revision | Comments |
|---|---|---|---|---|---|---|---|---|---|
| NR-WR* | 1st April 2022 to 30th April 2022 | 00-06 | 2500 | 500 | 2000 | 628 | 1372 | | |
| | | 06-18 | | | | 1856 | 144 | | |
| | | 18-24 | | | | 628 | 1372 | | |
| WR-NR* | 1st April 2022 to 30th April 2022 | 00-06 | 19500<br>18550** | 1000 | 18500<br>17550** | 11433<br>10483** | 7067 | | |
| | | 06-18 | 19500<br>18550** | 1000 | 18500<br>17550** | 11822<br>10872* | 6678 | | |
| | | 18-24 | 19500<br>18550** | 1000 | 18500<br>17550** | 11433<br>10483** | 7067 | | |
| NR-ER* | 1st April 2022 to 30th April 2022 | 00-06 | 2000 | 200 | 1800 | 93 | 1707 | | |
| | | 06-18 | 2000 | | 1800 | 1308 | 492 | | |
| | | 18-24 | 2000 | | 1800 | 93 | 1707 | | |
| ER-NR* | 1st April 2022 to 30th April 2022 | 00-24 | 5900 | 400 | 5500 | 4356 | 1144 | | |
| W3-ER | 1st April 2022 to 30th April 2022 | 00-24 | No limit is being specified. | | | | | | |
| ER-W3 | 1st April 2022 to 30th April 2022 | 00-24 | No limit is being specified. | | | | | | |
| WR-SR^ | 1st April 2022 to 30th April 2022 | 00-05 | 10350 | 650 | 9700 | 4118 | 5582 | | |
| | | 05-22 | 10350 | | 9700 | | 5582 | | |
| | | 22-24 | 10350 | | 9700 | | 5582 | | |
| SR-WR * | 1st April 2022 to 30th April 2022 | 00-24 | 4600 | 400 | 4200 | 983 | 3217 | | |
| ER-SR^ | 1st April 2022 to 30th April 2022 | 00-06 | 5800 | 350 | 5450 | 2675 | 2775 | | |
| | | 06-18 | | | | 2760 | 2690 | | |
| | | 18-24 | | | | 2675 | 2775 | | |
| SR-ER * | 1st April 2022 to 30th April 2022 | 00-24 | No limit is being Specified. | | | | | | |
| ER-NER* | 1st April 2022 to 30th April 2022 | 00-02 | 965 | 60 | 905 | 455 | 450 | | |
| | | 02-07 | 965 | | 905 | 455 | 450 | | |
| | | 07-12 | 935 | | 875 | 455 | 420 | | |
| | | 12-17 | 940 | | 880 | 455 | 425 | | |
| | | 17-21 | 720 | | 660 | 455 | 205 | | |
| | | 21-24 | 965 | | 905 | 455 | 450 | | |
| NER-ER* | 1st April 2022 to 30th April 2022 | 00-02 | 3370 | 60 | 3310 | 81 | 3229 | | |
| | | 02-07 | 3370 | | 3310 | 81 | 3229 | | |
| | | 07-12 | 3355 | | 3295 | 81 | 3214 | | |
| | | 12-17 | 3340 | | 3280 | 81 | 3199 | | |
| | | 17-21 | 3285 | | 3225 | 81 | 3144 | | |
| | | 21-24 | 3370 | | 3310 | 81 | 3229 | | |

**National Load Despatch Centre**
**Total Transfer Capability for April 2022**

Issue Date: 28th December, 2021 Issue Time: 1700 hrs Revision No. 0

| Corridor | Date | Time Period (hrs) | Total Transfer Capability (TTC) | Reliability Margin | Available Transfer Capability (ATC) | Long Term Access (LTA)/ Medium Term Open Access (MTOA) # | Margin Available for Short Term Open Access (STOA) | Changes in TTC w.r.t. Last Revision | Comments |
|---|---|---|---|---|---|---|---|---|---|
| **W3 zone Injection** | 1st April 2022 to 30th April 2022 | 00-24 | No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly) | | | | | | |

**Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.**

* 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) KWPCL, 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 commissionned 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 willl 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 2X315 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 appropiate measures like SPS implemetation.

^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 appropiate 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 Paricha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Paricha TPS.

**Simultaneous Import Capability**

| Corridor | Date | Time Period (hrs) | Total Transfer Capability (TTC) | Reliability Margin | Available Transfer Capability (ATC) | Long Term Access (LTA)/ Medium Term Open Access (MTOA) | Margin Available for Short Term Open Access (STOA) | Changes in TTC w.r.t. Last Revision | Comments |
|---|---|---|---|---|---|---|---|---|---|
| NR | 1st April 2022 to 30th April 2022 | 00-06 | 25400<br>24450** | 1400 | 24000<br>23050** | 15789<br>14839** | 8211 | | |
| | | 06-09 | 25400<br>24450** | | 24000<br>23050** | 16178<br>15228** | 7822 | | |
| | | 09-17 | 25400<br>24450** | | 24000<br>23050** | 16178<br>15228** | 7822 | | |
| | | 17-18 | 25400<br>24450** | | 24000<br>23050** | 16178<br>15228** | 7822 | | |
| | | 18-24 | 25400<br>24450** | | 24000<br>23050** | 15789<br>14839** | 8211 | | |
| NER* | 1st April 2022 to 30th April 2022 | 00-02 | 965 | 60 | 905 | 455 | 450 | | |
| | | 02-07 | 965 | | 905 | 455 | 450 | | |
| | | 07-12 | 935 | | 875 | 455 | 420 | | |
| | | 12-17 | 940 | | 880 | 455 | 425 | | |
| | | 17-21 | 720 | | 660 | 455 | 205 | | |
| | | 21-24 | 965 | | 905 | 455 | 450 | | |
| WR* | | | | | | | | | |
| | | | | | | | | | |
| SR*# | 1st April 2022 to 30th April 2022 | 00-06 | 16150 | 1000 | 15150 | 6793 | 8357 | | |
| | | 06-18 | 16150 | | 15150 | 6878 | 8272 | | |
| | | 18-24 | 16150 | | 15150 | 6793 | 8357 | | |

* 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 appropiate measures like SPS implemetation.

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 appropiate measures.

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

**Simultaneous Export Capability**

| Corridor | Date | Time Period (hrs) | Total Transfer Capability (TTC) | Reliability Margin | Available Transfer Capability (ATC) | Long Term Access (LTA)/ Medium Term Open Access (MTOA) | Margin Available for Short Term Open Access (STOA) | Changes in TTC w.r.t. Last Revision | Comments |
|---|---|---|---|---|---|---|---|---|---|
| **NR*** | 1st April 2022 to 30th April 2022 | 00-06 | 4500 | 700 | 3800 | 721 | 3079 | | |
| | | 06-18 | | | | 3164 | 636 | | |
| | | 18-24 | | | | 721 | 3079 | | |
| **NER*** | 1st April 2022 to 30th April 2022 | 00-02 | 3370 | 60 | 3310 | 81 | 3229 | | |
| | | 02-07 | 3370 | | 3310 | 81 | 3229 | | |
| | | 07-12 | 3355 | | 3295 | 81 | 3214 | | |
| | | 12-17 | 3340 | | 3280 | 81 | 3199 | | |
| | | 17-21 | 3285 | | 3225 | 81 | 3144 | | |
| | | 21-24 | 3370 | | 3310 | 81 | 3229 | | |
| **WR*** | | | | | | | | | |
| | | | | | | | | | |
| **SR*^** | 1st April 2022 to 30th April 2022 | 00-24 | 3700 | 400 | 3300 | 1804 | 1496 | | |

* 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 wise)

| Corridor | Constraint | Applicable Revisions |
|---|---|---|
| **WR-NR** | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit | Rev- 0 |
| **NR-ER** | (n-1) contingency of 400 kV Saranath-Pusauli | Rev- 0 |
| **ER-NR** | Inter-regional flow pattern towards NR | Rev- 0 |
| | N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT | Rev- 0 |
| | Low Voltage at Gazuwaka (East) Bus. | |
| **SR-WR** | a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt<br>b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs | Rev- 0 |
| **ER-NER** | a) N-1 contingency of 400 kV Bongaigaon - Azara line<br>b) High Loading of 220 kV Salakati - BTPS D/C | Rev- 0 |
| **NER-ER** | a) N-1 contingency of 220 kV Salakati - Alipurduar I or II<br>b) High Loading of 220 kV Salakati - Alipurduar II or I | Rev- 0 |
| **W3 zone Injection** | --- | Rev- 0 |

## Limiting Constraints (Simultaneous)

| | | Constraint | Applicable Revisions |
|---|---|---|---|
| **NR** | **Import** | Inter-regional flow pattern towards NR | Rev- 0 |
| | | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit | Rev- 0 |
| | **Export** | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. | Rev- 0 |
| | | (n-1) contingency of 400 kV Saranath-Pusauli | |
| **NER** | **Import** | a) N-1 contingency of 400 kV Bongaigaon - Killing line (0000 hrs to 2400 hrs)<br>b) High Loading of 220 kV Balipara-Sonabil (0000 hrs to 0700 hrs)<br>c) High Loading of 220 kV Salakati - BTPS D/C (0700 hrs to 1200 hrs) | Rev- 0 |
| | **Export** | a) N-1 contingency of 220 kV Salakati - Alipurduar I or II<br>b) High Loading of 220 kV Salakati - Alipurduar II or I | Rev- 0 |
| | | N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT | Rev- 0 |
| | | Low Voltage at Gazuwaka (East) Bus | |
| | **Export** | N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt | Rev- 0 |
| | | N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs | |

**National Load Despatch Centre**
**Total Transfer Capability for April 2022**

| Revision No | Date of Revision | Period of Revision | Reason for Revision/Comment | Corridor Affected |
|---|---|---|---|---|

| ASSUMPTIONS IN BASECASE | | | | | |
|---|---|---|---|---|---|
| | | | | Month : April 2022 | |
| S.No. | Name of State/Area | Load | | Generation | |
| | | Peak Load (MW) | Off Peak Load (MW) | Peak (MW) | Off Peak (MW) |
| I | NORTHERN REGION | | | | |
| 1 | Punjab | 10744 | 10867 | 3971 | 3971 |
| 2 | Haryana | 9492 | 9088 | 2701 | 2701 |
| 3 | Rajasthan | 10485 | 9635 | 8259 | 8259 |
| 4 | Delhi | 5321 | 5152 | 796 | 795 |
| 5 | Uttar Pradesh | 20631 | 20099 | 10623 | 10689 |
| 6 | Uttarakhand | 2124 | 1886 | 928 | 939 |
| 7 | Himachal Pradesh | 1354 | 1114 | 783 | 769 |
| 8 | Jammu & Kashmir | 2363 | 1962 | 884 | 883 |
| 9 | Chandigarh | 313 | 249 | 0 | 0 |
| 10 | ISGS/IPPs | 48 | 48 | 21958 | 20013 |
| | Total NR | 62875 | 60100 | 50903 | 49019 |
| | | | | | |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 6537 | 5617 | 356 | 349 |
| 2 | Jharkhand | 1958 | 1503 | 511 | 501 |
| 3 | Damodar Valley Corporation | 2985 | 2723 | 5856 | 4190 |
| 4 | Orissa | 4513 | 4310 | 3998 | 3798 |
| 5 | West Bengal | 9704 | 8401 | 7033 | 6210 |
| 6 | Sikkim | 119 | 116 | 0 | 0 |
| 7 | Bhutan | 181 | 181 | 2325 | 2325 |
| 8 | ISGS/IPPs | 810 | 810 | 15771 | 11533 |
| | Total ER | 26808 | 23662 | 35850 | 28906 |
| | | | | | |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 17405 | 16509 | 11624 | 10789 |
| 2 | Gujarat | 13918 | 11320 | 8601 | 7246 |
| 3 | Madhya Pradesh | 9254 | 8534 | 3596 | 3845 |
| 4 | Chattisgarh | 4309 | 3965 | 2531 | 2835 |
| 5 | Daman and Diu | 276 | 236 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 744 | 870 | 0 | 0 |
| 7 | Goa-WR | 534 | 420 | 0 | 0 |
| 8 | ISGS/IPPs | 1784 | 3263 | 36712 | 32338 |
| | Total WR | 48224 | 45117 | 63064 | 57053 |
| | | | | | |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 8024 | 7220 | 6268 | 5204 |
| 2 | Telangana | 9100 | 8117 | 5196 | 5078 |
| 3 | Karnataka | 8396 | 6654 | 6023 | 4850 |
| 4 | Tamil Nadu | 15210 | 13068 | 7256 | 6376 |
| 5 | Kerala | 3778 | 2349 | 1614 | 961 |
| 6 | Pondy | 264 | 264 | 0 | 0 |
| 7 | Goa-SR | 82 | 82 | 0 | 0 |
| 8 | ISGS/IPPs | 37 | 37 | 14805 | 14794 |
| | Total SR | 44891 | 37791 | 41162 | 37263 |
| | | | | | |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 140 | 95 | 118 | 118 |
| 2 | Assam | 1849 | 1588 | 615 | 574 |
| 3 | Manipur | 207 | 86 | 105 | 103 |
| 4 | Meghalaya | 315 | 255 | 302 | 229 |
| 5 | Mizoram | 150 | 55 | 60 | 60 |
| 6 | Nagaland | 173 | 155 | 96 | 93 |
| 7 | Tripura | 435 | 260 | 300 | 300 |
| 8 | ISGS/IPPs | 0 | 0 | 2371 | 2370 |
| | Total NER | 3269 | 2494 | 3967 | 3847 |
| | | | | | |
| | Total All India | 186067 | 169164 | 194946 | 176088 |