

**National Load Despatch Centre
Total Transfer Capability for June 2020**

Issue Date: 29th March 2020

Issue Time: 1800 hrs

Revision No. 1

| 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 June 2020 to 30th June 2020 | 00-06 | 2500 | 500 | 2000 | 195 | 1805 | | |
| | | 06-18 | | | | 250 | 1750 | | |
| | | 18-24 | | | | 195 | 1805 | | |
| WR-NR* | 1st June 2020 to 30th June 2020 | 00-06 | 16150 | 500 | 15650 | 10219 | 5431 | | Revision in STOA margin due to the following:- 1) Operationalization of 50 MW LTA from AGEMPL (Wind, Bhuj) to Punjab 2) Completion of 108 MW MTOA from SKS to NPCL (UP) |
| | | | 15200** | | 14700** | 9269** | | | |
| | | 06-18 | 16150 | 500 | 15650 | 10608 | 5042 | | |
| | | | 15200** | | 14700** | 9658** | | | |
| | | 18-24 | 16150 | 500 | 15650 | 10219 | 5431 | | |
| | | | 15200** | | 14700** | 9269** | | | |
| NR-ER* | 1st June 2020 to 30th June 2020 | 00-06 | 2000 | 200 | 1800 | 193 | 1607 | | |
| | | 06-18 | 2000 | | 1800 | 303 | 1497 | | |
| | | 18-24 | 2000 | | 1800 | 193 | 1607 | | |
| ER-NR* | 1st June 2020 to 30th June 2020 | 00-24 | 5250 | 300 | 4950 | 4050 | 900 | | |
| W3-ER | 1st June 2020 to 30th June 2020 | 00-24 | No limit is being specified. | | | | | | |
| ER-W3 | 1st June 2020 to 30th June 2020 | 00-24 | No limit is being specified. | | | | | | |
| WR-SR | 1st June 2020 to 30th June 2020 | 00-05 | 6950 | 500 | 6450 | 4035 | 2415 | | |
| | | 05-22 | 6950 | | 6450 | | 2415 | | |
| | | 22-24 | 6950 | | 6450 | | 2415 | | |
| SR-WR * | 1st June 2020 to 30th June 2020 | 00-24 | No limit is being Specified. | | | | | | |
| ER-SR | 1st June 2020 to 30th June 2020 | 00-06 | 5950 | 250 | 5700 | 2663 | 3037 | | |
| | | 06-18 | | | | 2748 | 2952 | | |
| | | 18-24 | | | | 2663 | 3037 | | |
| SR-ER * | 1st June 2020 to 30th June 2020 | 00-24 | No limit is being Specified. | | | | | | |
| ER-NER | 1st June 2020 to 30th June 2020 | 00-02 | 1300 | 45 | 1255 | 289 | 966 | | |
| | | 02-07 | 1300 | | 1255 | 289 | 966 | | |
| | | 07-12 | 1260 | | 1215 | 334 | 881 | | |
| | | 12-17 | 1220 | | 1175 | 334 | 841 | | |
| | | 17-23 | 1100 | | 1055 | 289 | 766 | | |
| | | 23-24 | 1300 | | 1255 | 289 | 966 | | |
| NER-ER | 1st June 2020 to 30th June 2020 | 00-02 | 2390 | 45 | 2345 | 0 | 2345 | | |
| | | 02-07 | 2390 | | 2345 | | 2345 | | |
| | | 07-12 | 2330 | | 2285 | | 2285 | | |
| | | 12-17 | 2300 | | 2255 | | 2255 | | |
| | | 17-23 | 2600 | | 2555 | | 2555 | | |
| | | 23-24 | 2390 | | 2345 | | 2345 | | |

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| 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 June 2020 to 30th June 2020 | 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) KWPCCL, 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 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 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.

| 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 June 2020 to 30th June 2020 | 00-06 | 21400 20450** | 800 | 20600 19650** | 14269 13319** | 6331 | -100 | A) Revision in STOA margin due to the following:- |
| | | 06-09 | 21400 20450** | | 20600 19650** | 14658 13708** | 5942 | -1650 | 1) Operationalization of 50 MW LTA from AGEMPL (Wind, Bhuj) to Punjab |
| | | 09-17 | 21400 20450** | | 20600 19650** | 14658 13708** | 5942 | -1650 | 2) Completion of 108 MW MTOA from SKS to NPCL (UP) |
| | | 17-18 | 21400 20450** | | 20600 19650** | 14658 13708** | 5942 | -100 | B) Revision in TTC/ATC due to change in inter-regional flow pattern towards NR. |
| | | 18-24 | 21400 20450** | | 20600 19650** | 14269 13319** | 6331 | -100 | |
| | | | | | | | | | |
| NER | 1st June 2020 to 30th June 2020 | 00-02 | 1300 | 45 | 1255 | 289 | 966 | | |
| | | 02-07 | 1300 | | 1255 | 289 | 966 | | |
| | | 07-12 | 1260 | | 1215 | 334 | 881 | | |
| | | 12-17 | 1220 | | 1175 | 334 | 841 | | |
| | | 17-23 | 1100 | | 1055 | 289 | 766 | | |
| | | 23-24 | 1300 | | 1255 | 289 | 966 | | |
| WR | | | | | | | | | |
| SR | 1st June 2020 to 30th June 2020 | 00-06 | 12900 | 750 | 12150 | 6698 | 5452 | | |
| | | 06-18 | 12900 | | 12150 | 6783 | 5367 | | |
| | | 18-24 | 12900 | | 12150 | 6698 | 5452 | | |
| * 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. | | | | | | | | | |

| 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 June 2020 to 31st June 2020 | 00-06 | 4500 | 700 | 3800 | 388 | 3412 | | |
| | | 06-18 | | | 3800 | 553 | 3247 | | |
| | | 18-24 | | | 3800 | 388 | 3412 | | |
| NER | 1st June 2020 to 31st June 2020 | 00-02 | 2390 | 45 | 2345 | 0 | 2345 | | |
| | | 02-07 | 2390 | | 2345 | | 2345 | | |
| | | 07-12 | 2330 | | 2285 | | 2285 | | |
| | | 12-17 | 2300 | | 2255 | | 2255 | | |
| | | 17-23 | 2600 | | 2555 | | 2555 | | |
| | | 23-24 | 2390 | | 2345 | | 2345 | | |
| | | | | | | | | | |
| WR | | | | | | | | | |
| | | | | | | | | | |
| SR * | 1st June 2020 to 31st June 2020 | 00-24 | No limit is being Specified. | | | | | | |
| * 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 | | | | | | | | | |

| Limiting Constraints (Corridor wise) | | Applicable Revisions |
|---|--|-----------------------------|
| Corridor | Constraint | |
| WR-NR | n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line | Rev- 0 to 1 |
| NR-ER | (n-1) contingency of 400 kV Saranath-Pusaui | Rev- 0 to 1 |
| ER-NR | 1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C | Rev- 0 to 1 |
| WR-SR and ER-SR | n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt | Rev- 0 to 1 |
| | n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt | |
| | Low Voltage at Gazuwaka (East) Bus. | |
| ER-NER | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW) | Rev- 0 to 1 |
| NER-ER | a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading in Meghalya Internal Power System | Rev- 0 to 1 |
| W3 zone Injection | --- | Rev- 0 to 1 |

| Limiting Constraints (Simultaneous) | | Applicable Revisions | |
|--|---------------|--|-------------|
| NR | Import | 1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C | Rev- 0 to 1 |
| | | n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line | Rev- 0 to 1 |
| | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusaui | Rev- 0 to 1 |
| NER | Import | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW) | Rev- 0 to 1 |
| | Export | a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading in Meghalya Internal Power System | Rev- 0 to 1 |
| SR | Import | n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt | Rev- 0 to 1 |
| | | n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt | |
| | | Low Voltage at Gazuwaka (East) Bus | |

**National Load Despatch Centre
Total Transfer Capability for June 2020**

| Revision No | Date of Revision | Period of Revision | Reason for Revision/Comment | Corridor Affected |
|--------------------|-------------------------|---------------------------|---|--------------------------|
| 1 | 29th March 2020 | Whole Month | 1) Revision in STOA margin due to the following:- a) Operationalization of 50 MW LTA from AGEMPL (Wind, Bhuj) to Punjab b) Completion of 108 MW MTOA from SKS to NPCL (UP) 2) Revision in TTC/ATC due to change in inter-regional flow pattern towards NR. | WR-NR/NR Import |

| ASSUMPTIONS IN BASECASE | | | | | |
|-------------------------|----------------------------|----------------|--------------------|-------------------|---------------|
| | | | | Month : June'2020 | |
| 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 | 10067 | 9726 | 5031 | 5107 |
| 2 | Haryana | 8695 | 8519 | 2953 | 2953 |
| 3 | Rajasthan | 11103 | 11509 | 7197 | 7197 |
| 4 | Delhi | 5675 | 6190 | 675 | 675 |
| 5 | Uttar Pradesh | 17079 | 15541 | 9239 | 9284 |
| 6 | Uttarakhand | 2148 | 1875 | 1185 | 1164 |
| 7 | Himachal Pradesh | 1519 | 1293 | 709 | 627 |
| 8 | Jammu & Kashmir | 2948 | 2295 | 1114 | 1113 |
| 9 | Chandigarh | 328 | 304 | 0 | 0 |
| 10 | ISGS/PPs | 25 | 25 | 21665 | 19179 |
| | Total NR | 59587 | 57276 | 49768 | 47299 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 5009 | 4587 | 110 | 110 |
| 2 | Jharkhand | 1278 | 1057 | 425 | 421 |
| 3 | Damodar Valley Corporation | 3015 | 2593 | 5201 | 4318 |
| 4 | Orissa | 4039 | 4140 | 3508 | 2655 |
| 5 | West Bengal | 8514 | 7270 | 5621 | 5053 |
| 6 | Sikkim | 114 | 45 | 0 | 0 |
| 7 | Bhutan | 171 | 164 | 766 | 621 |
| 8 | ISGS/PPs | -171 | -164 | 12531 | 11066 |
| | Total ER | 21969 | 19691 | 28162 | 24243 |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 18737 | 16633 | 12295 | 11747 |
| 2 | Gujarat | 15902 | 12455 | 10497 | 8468 |
| 3 | Madhya Pradesh | 9628 | 7772 | 5051 | 3670 |
| 4 | Chattisgarh | 4024 | 3560 | 1908 | 2133 |
| 5 | Daman and Diu | 311 | 282 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 761 | 709 | 0 | 0 |
| 7 | Goa-WR | 524 | 498 | 0 | 0 |
| 8 | ISGS/PPs | 4774 | 3644 | 37337 | 31485 |
| | Total WR | 54661 | 45553 | 67088 | 57504 |

| S.No. | Name of State/Area | Load | | Generation | |
|-------|----------------------|----------------|--------------------|------------|---------------|
| | | Peak Load (MW) | Off Peak Load (MW) | Peak (MW) | Off Peak (MW) |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 9605 | 6730 | 8327 | 6053 |
| 2 | Telangana | 7763 | 7848 | 4598 | 4644 |
| 3 | Karnataka | 9884 | 8330 | 7755 | 5857 |
| 4 | Tamil Nadu | 15780 | 13783 | 9577 | 8276 |
| 5 | Kerala | 3667 | 2269 | 1637 | 235 |
| 6 | Pondy | 314 | 265 | 0 | 0 |
| 7 | Goa-SR | 61 | 52 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 12710 | 12179 |
| | Total SR | 47074 | 39278 | 44605 | 37244 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 121 | 76 | 8 | 8 |
| 2 | Assam | 1774 | 1188 | 284 | 244 |
| 3 | Manipur | 179 | 82 | 0 | 0 |
| 4 | Meghalaya | 276 | 208 | 215 | 154 |
| 5 | Mizoram | 100 | 66 | 8 | 8 |
| 6 | Nagaland | 126 | 91 | 16 | 8 |
| 7 | Tripura | 245 | 149 | 75 | 75 |
| 8 | ISGS/IPPs | 153 | 82 | 2392 | 2083 |
| | Total NER | 2975 | 1943 | 2998 | 2580 |
| | Total All India | 186264 | 163742 | 192620 | 168870 |