

| National Load Despatch Centre<br>Total Transfer Capability for Sep 2024 |                  |                  |                                |                        |                                    |                  |                       |                                  |   |  |
|---|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|--|
| Issue Date:Sep 02 2024  |                  |                  |                                | Issue Time:10:51:41    |                                    |                  | Revision No :9        |                                  |   |  |
| 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 Sep to 30 Sep | 00:00 to 17:00   | 2000                           | 60                     | 1940                               | NA               |                       | 0                                |   |  |
|   |                  | 17:00 to 21:00   | 1560                           | 60                     | 1500                               | NA               |                       | 0                                |   |  |
|   |                  | 21:00 to 24:00   | 1940                           | 60                     | 1880                               | NA               |                       | 0                                |   |  |
| ER-NR   | 01 Sep to 30 Sep | 00:00 to 24:00   | 6700                           | 400                    | 6300                               | NA               |                       | 0                                |   |  |
| ER-SR   | 01 Sep to 02 Sep | 00:00 to 24:00   | 6200                           | 350                    | 5850                               | NA               |                       | 0                                |   |  |
|   | 03 Sep to 03 Sep | 00:00 to 09:00   | 6200                           | 350                    | 5850                               | NA               |                       | 0                                |   |  |
|   |                  | 09:00 to 24:00   | 6200                           | 350                    | 5850                               | NA               |                       | 1900                             | Due to the deferral of the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2 |  |
|   |                  | 00:00 to 24:00   | 6200                           | 350                    | 5850                               | NA               |                       | 1900                             |   |  |
| ER-W3   | 01 Sep to 30 Sep | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |                  |                       |                                  |   |  |
| ER-WR   | 01 Sep to 30 Sep | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |   |  |
| NER-ER  | 01 Sep to 30 Sep | 00:00 to 24:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |   |  |

| 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 |
|--------------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| NR-ER        | 01 Sep to 30 Sep | 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 Sep to 30 Sep | 00:00 to 06:00   | 6000                           | 500                    | 5500                               | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 6000                           | 500                    | 5500                               | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 6000                           | 500                    | 5500                               | NA               |                       | 0                                |         |
| SR-ER        | 01 Sep to 30 Sep | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |                  |                       |                                  |         |
| SR-WR        | 01 Sep to 30 Sep | 00:00 to 06:00   | 7200                           | 650                    | 6550                               | NA               |                       | 0                                |         |
|              |                  | 06:00 to 18:00   | 7100                           | 650                    | 6450                               | NA               |                       | 0                                |         |
|              |                  | 18:00 to 24:00   | 7200                           | 650                    | 6550                               | NA               |                       | 0                                |         |
| W3 Injection | 01 Sep to 30 Sep | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |
| W3-ER        | 01 Sep to 30 Sep | 00:00 to 24:00   | No limit is being specified.   |                        |                                    |                  |                       |                                  |         |
| WR-ER        | 01 Sep to 30 Sep | 00:00 to 24:00   | 5500                           | 300                    | 5200                               | NA               |                       | 0                                |         |
| WR-NR        | 01 Sep to 30 Sep | 00:00 to 09:00   | 23600                          | 1000                   | 22600                              | NA               |                       | 0                                |         |
|              |                  | 09:00 to 15:00   | 18450                          | 1000                   | 17450                              | NA               |                       | 0                                |         |
|              |                  | 15:00 to 16:00   | 19550                          | 1000                   | 18550                              | NA               |                       | 0                                |         |
|              |                  | 16:00 to 24:00   | 23600                          | 1000                   | 22600                              | NA               |                       | 0                                |         |
| WR-SR        | 01 Sep           | 00:00 to 24:00   | 15900                          | 650                    | 15250                              | NA               |                       | 0                                |         |

| 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 |
|----------|-----------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
|          | to 30 Sep |                  |                                |                        |                                    |                  |                       |                                  |         |

- 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

**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 Sep to 30 Sep | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |
| NER      | 01 Sep to 30 Sep | 00:00 to 17:00   | 1500                           | 60                     | 1440                               | 824              | 616                   | 0                                |         |
|          |                  | 17:00 to 21:00   | 1120                           | 60                     | 1060                               | 824              | 236                   | 0                                |         |
|          |                  | 21:00 to 24:00   | 1500                           | 60                     | 1440                               | 824              | 616                   | 0                                |         |
| NR       | 01 Sep to 30 Sep | 00:00 to 09:00   | 27200                          | 1000                   | 26200                              | NA               |                       | 0                                |         |
|          |                  | 09:00 to 15:00   | 19650                          | 1000                   | 18650                              | NA               |                       | 0                                |         |
|          |                  | 15:00 to 16:00   | 20750                          | 1000                   | 19750                              | NA               |                       | 0                                |         |
|          |                  | 16:00 to 24:00   | 27200                          | 1000                   | 26200                              | NA               |                       | 0                                |         |

| 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   |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|
| SR       | 01 Sep to 02 Sep | 00:00 to 24:00   | 22100                          | 1000                   | 21100                              | 7601             | 13499                 | 0                                |   |
|          |                  | 00:00 to 09:00   | 22100                          | 1000                   | 21100                              | 7601             | 13499                 | 0                                |   |
|          | 03 Sep to 03 Sep | 09:00 to 24:00   | 22100                          | 1000                   | 21100                              | 7601             | 13499                 | 1900                             | Due to the deferral of the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2 |
|          | 04 Sep to 30 Sep | 00:00 to 24:00   | 22100                          | 1000                   | 21100                              | 7601             | 13499                 | 1900                             |   |
| WR       | 01 Sep to 30 Sep | 00:00 to 24:00   | NA                             | NA                     |                                    | 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.
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**Simultaneous Export 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 Sep to 30 Sep | 00:00 to 24:00   | NA                             | NA                     |                                    | NA               |                       | 0                                |         |
| NER      | 01 Sep to 30 Sep | 00:00 to 24:00   | 3200                           | 60                     | 3140                               | NA               |                       | 0                                |         |
| NR       | 01 Sep to 30 Sep | 00:00 to 06:00   | 6000                           | 500                    | 5500                               | NA               |                       | 0                                |         |
|          |                  | 06:00 to 18:00   | 6000                           | 500                    | 5500                               | NA               |                       | 0                                |         |
|          |                  | 18:00 to 24:00   | 6000                           | 500                    | 5500                               | NA               |                       | 0                                |         |
| SR       | 01 Sep to 30 Sep | 00:00 to 24:00   | 6400                           | 650                    | 5750                               | NA               |                       | 0                                |         |
| WR       | 01 Sep to 30 Sep | 00:00 to 24:00   | NA                             | NA                     |                                    | 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), m)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.
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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  | 0-9       |
| 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  | 0-9       |
| 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  | 0-9       |
| ER-NR      | Inter-regional flow pattern towards NR   | 0-9       |
| WR-SR      | Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT   | 0-9       |
| ER-SR      | 1. Low Voltage at Gazuwaka (East) Bus.   | 0-9       |
| 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 | 0-9       |
| ER-NER     | N-1 contingency of 400 kV Bongaigaon - Azara line will overload 220 kV Balipara-Sonabil and vice-versa   | 0-9       |
| NER-ER     | a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon-Alipurduar II or I   | 0-9       |
| NR_IMPORT  | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit  | 0-9       |
| NR_EXPORT  | Outage of any one of the two circuits from 400 kV Kankroli to 400 kV Zerda shall overload the other circuit.   | 0-9       |
| NER_IMPORT | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C  | 0-9       |
| NER_EXPORT | a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon-Alipurduar II or I   | 0-9       |
| 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  | 0-9       |
| 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 | 0-9       |

## Revision Summary

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment  | Corridor Affected |
|----------|------------------|--------------------|--|-------------------|
| 1        | 28 Dec           | 01 Sep to 30 Sep   | Change in T-GNA Margin due to grant of additional 174 MW GNA to Uttar Pradesh from outside Northern Region | NR_IMPORT         |

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment   | Corridor Affected |
|----------|------------------|--------------------|---|-------------------|
|          |                  | 01 Sep to 30 Sep   | 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 Sep to 30 Sep   | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR   | WR-NR             |
|          |                  | 01 Sep to 30 Sep   | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR   | ER-NR             |
|          |                  | 01 Sep to 30 Sep   | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB   | WR-SR             |
|          |                  | 01 Sep to 30 Sep   | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB   | ER-SR             |
|          |                  | 01 Sep to 30 Sep   | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR   | NR_IMPORT         |
|          |                  | 01 Sep to 30 Sep   | 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 Sep to 30 Sep   | Revised T-GNA margin due to approval of 500 MW GNA for Andhra Pradesh from Outside Southern Region  | SR_IMPORT         |
| 4        | 28 Mar           | 01 Sep to 30 Sep   | 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 Sep to 30 Sep   | 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 Sep to 30 Sep   | 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 Sep to 30 Sep   | Revised T-GNA margin due to approval of 25 MW GNA for Goa from Outside Western Region   | WR_IMPORT         |
|          |                  | 01 Sep to 30 Sep   | Revised T-GNA margin due to approval of 500 MW GNA for Karnataka from Outside Southern Region   | SR_IMPORT         |
|          |                  | 01 Sep to 30 Sep   | Revised T-GNA margin due to approval of 24 MW GNA for West Bengal from Outside Eastern Region   | ER_IMPORT         |
| 6        | 30 Aug           | 01 Sep to 30 Sep   | TTC/ATC revised due to shifting of Rihand-III generators to NR and Change in Load Generation Balance & inter-regional flow pattern.   | WR-NR             |
|          |                  | 01 Sep to 30 Sep   | TTC-ATC revised in WR-SR/SR Import by 200/200 MW due to the shutdown of 765KV-CUDDAPAH-THIRUVALAM-1 & 2   | WR-SR             |
|          |                  | 01 Sep to 30 Sep   | Due to change in LGB and HVDC set points  | SR-WR             |
|          |                  | 01 Sep to 30 Sep   | Due to change in LGB  | ER-NER            |
|          |                  | 01 Sep to 30 Sep   | TTC/ATC revised due to shifting of Rihand-III generators to NR and Change in Load Generation Balance & inter-regional flow pattern.   | NR_IMPORT         |
|          |                  | 01 Sep to 30 Sep   | Due to change in LGB  | NER_IMPORT        |
|          |                  | 01 Sep to 30 Sep   | TTC-ATC revised in WR-SR/SR Import by 200/200 MW due to the shutdown of 765KV-CUDDAPAH-THIRUVALAM-1 & 2   | SR_IMPORT         |

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment  | Corridor Affected |
|----------|------------------|--------------------|--|-------------------|
|          |                  | 01 Sep to 30 Sep   | Due to change in LGB   | NER_EXPORT        |
|          |                  | 01 Sep to 30 Sep   | TTC/ATC of SR-WR/SR Export has been revised based on the change in LGB and HVDC set points | SR_EXPORT         |
| 7        | 01 Sep           | 04 Sep to 04 Sep   | Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2                                    | ER-SR             |
|          |                  | 04 Sep to 04 Sep   | Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2                                    | SR_IMPORT         |
| 8        | 01 Sep           | 03 Sep to 03 Sep   | Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2                                    | ER-SR             |
|          |                  | 03 Sep to 03 Sep   | Due to the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2                                    | SR_IMPORT         |
| 9        | 02 Sep           | 03 Sep to 03 Sep   | Due to the deferral of the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2                    | ER-SR             |
|          |                  | 03 Sep to 03 Sep   | Due to the deferral of the shutdown of HVDC500KV-TALCHER-KOLAR_DC-1 & 2                    | SR_IMPORT         |

| ASSUMPTIONS IN BASECASE |                            |                    |                 |                    |                 |
|-------------------------|----------------------------|--------------------|-----------------|--------------------|-----------------|
| Month : Sep'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 |