

Mod stack is prepared as per Clause 33 of State Grid Code Regulation 2020 issued by Hon. MERC on dtd. 02.09.2020

**DISCOM WISE MOD STACK OF VARIABLE CHARGES (VC) FOR SEPTEMBER-2023 (R1)**

(\*Effective from 23.09.2023 to 15.10.2023)

| Sr. no.                                    | Generating Station                            | OWNER/T<br>YPE | Installed<br>Capacity/ Share<br>in ISGS (MW) | Type of Fuel | Variable Charge Rs./KWh in Descending Order |                                                              |                                   |
|--------------------------------------------|-----------------------------------------------|----------------|----------------------------------------------|--------------|---------------------------------------------|--------------------------------------------------------------|-----------------------------------|
|                                            |                                               |                |                                              |              | Approved Variable<br>Charge(Rs/KWh)         | Impact for<br>approved change<br>in law (if any)<br>Rs./KWh) | Total Variable<br>Charge(Rs/ KWh) |
| 1                                          | 2                                             | 3              | 4                                            | 5            | 6                                           | 7                                                            | 8                                 |
| <b>DECENTRALISED MOD STACK FOR MSEDCL</b>  |                                               |                |                                              |              |                                             |                                                              |                                   |
| 1                                          | KAWAS (NAPM-COM GAS)                          | CS             | -                                            | Gas          | 11.7069                                     | 0.0000                                                       | 11.7069                           |
| 2                                          | GANDHAR (NAPM-COM GAS)                        | CS             | -                                            | Gas          | 11.6211                                     | 0.0000                                                       | 11.6211                           |
| 3                                          | KAWAS (RLNG)                                  | CS             | -                                            | Gas          | 10.2516                                     | 0.0000                                                       | 10.2516                           |
| 4                                          | JGPS (RLNG)                                   | CS             | -                                            | Gas          | 10.1947                                     | 0.0000                                                       | 10.1947                           |
| 5                                          | Uran GTPS (Open cycle operation)              | MSPGCL         | -                                            | Gas          | 7.1710                                      | 0.0000                                                       | 7.1710                            |
| 6                                          | KAWAS (APM GAS)                               | CS             | 200                                          | Gas          | 5.8752                                      | 0.0000                                                       | 5.8752                            |
| 7                                          | GANDHAR (APM GAS)                             | CS             | 204                                          | Gas          | 5.8441                                      | 0.0000                                                       | 5.8441                            |
| 8                                          | APML Unit 2 & 3 (1320 MW)                     | IPP            | 1320                                         | Coal         | 1.6770                                      | 3.4973                                                       | 5.1743                            |
| 9                                          | Uran GTPS (Combined cycle operation)          | MSPGCL         | 840                                          | Gas          | 5.1400                                      | 0.0000                                                       | 5.1400                            |
| 10                                         | Parali Unit -08                               | MSPGCL         | 250                                          | Coal         | 5.0520                                      | 0.0000                                                       | 5.0520                            |
| 11                                         | Parali Unit - 06 & 07                         | MSPGCL         | 500                                          | Coal         | 4.9680                                      | 0.0000                                                       | 4.9680                            |
| 12                                         | Nasik Unit - 03 to 05                         | MSPGCL         | 630                                          | Coal         | 4.4930                                      | 0.0000                                                       | 4.4930                            |
| 13                                         | APML, 440 MW                                  | IPP            | 440                                          | Coal         | 2.4081                                      | 2.0195                                                       | 4.4276                            |
| 14                                         | Solapur STPS                                  | CS             | 642                                          | Coal         | 4.4157                                      | 0.0000                                                       | 4.4157                            |
| 15                                         | APML, Unit 1,4 & 5 1200 MW                    | IPP            | 1200                                         | Coal         | 2.3481                                      | 2.0195                                                       | 4.3676                            |
| 16                                         | APML, Unit 1,4 & 5 125 MW                     | IPP            | 125                                          | Coal         | 2.3481                                      | 2.0195                                                       | 4.3676                            |
| 17                                         | Bhusawal Unit - 03                            | MSPGCL         | 210                                          | Coal         | 4.1620                                      | 0.0000                                                       | 4.1620                            |
| 18                                         | Khargone                                      | CS             | 85                                           | Coal         | 4.1303                                      | 0.0000                                                       | 4.1303                            |
| 19                                         | CGPL                                          | CS             | 760                                          | Coal         | 3.8375                                      | 0.0000                                                       | 3.8375                            |
| 20                                         | JSW U1, Jaigad                                | IPP            | 300                                          | Coal         | 3.7600                                      | 0.0000                                                       | 3.7600                            |
| 21                                         | Bhusawal Unit - 04 & 05                       | MSPGCL         | 1000                                         | Coal         | 3.7170                                      | 0.0000                                                       | 3.7170                            |
| 22                                         | Chandrapur Unit - 03 to 07                    | MSPGCL         | 1920                                         | Coal         | 3.7150                                      | 0.0000                                                       | 3.7150                            |
| 23                                         | Gadarwara                                     | CS             | 46                                           | Coal         | 3.4716                                      | 0.0000                                                       | 3.4716                            |
| 24                                         | Khaperkheda Unit - 01 to 04                   | MSPGCL         | 840                                          | Coal         | 3.3900                                      | 0.0000                                                       | 3.3900                            |
| 25                                         | IEPL TO MSEDCL                                | STOA           | 180                                          | Coal         | 3.3580                                      | 0.0000                                                       | 3.3580                            |
| 26                                         | Koradi Unit - 06                              | MSPGCL         | 210                                          | Coal         | 3.2930                                      | 0.0000                                                       | 3.2930                            |
| 27                                         | MSTPS-II                                      | CS             | 531                                          | Coal         | 3.2417                                      | 0.0000                                                       | 3.2417                            |
| 28                                         | Chandrapur Unit - 08,09                       | MSPGCL         | 1000                                         | Coal         | 3.2330                                      | 0.0000                                                       | 3.2330                            |
| 29                                         | Paras Unit - 03 & 04                          | MSPGCL         | 500                                          | Coal         | 3.2220                                      | 0.0000                                                       | 3.2220                            |
| 30                                         | MSTPS-I                                       | CS             | 394                                          | Coal         | 3.1982                                      | 0.0000                                                       | 3.1982                            |
| 31                                         | KHTPS-II                                      | CS             | 148                                          | Coal         | 3.1941                                      | 0.0000                                                       | 3.1941                            |
| 32                                         | Koradi Unit - 08 to 10                        | MSPGCL         | 1980                                         | Coal         | 3.0540                                      | 0.0000                                                       | 3.0540                            |
| 33                                         | Khaperkheda Unit - 05                         | MSPGCL         | 500                                          | Coal         | 3.0230                                      | 0.0000                                                       | 3.0230                            |
| 34                                         | SWPGPL TO MSEDCL                              | LTOA           | 240                                          | Coal         | 2.5281                                      | 0.4390                                                       | 2.9671                            |
| 35                                         | RattaniIndia Power Ltd, Amravati              | IPP            | 1200                                         | Coal         | 2.3523                                      | 0.5405                                                       | 2.8928                            |
| 36                                         | EMCO                                          | CS             | 200                                          | Coal         | 2.5988                                      | 0.0000                                                       | 2.5988                            |
| 37                                         | VSTP-I                                        | CS             | 432                                          | Coal         | 1.7456                                      | 0.0000                                                       | 1.7456                            |
| 38                                         | VSTPS-V                                       | CS             | 161                                          | Coal         | 1.6865                                      | 0.0000                                                       | 1.6865                            |
| 39                                         | VSTP-II                                       | CS             | 336                                          | Coal         | 1.6611                                      | 0.0000                                                       | 1.6611                            |
| 40                                         | VSTPS-III                                     | CS             | 275                                          | Coal         | 1.6388                                      | 0.0000                                                       | 1.6388                            |
| 41                                         | Lara                                          | CS             | 114                                          | Coal         | 1.6377                                      | 0.0000                                                       | 1.6377                            |
| 42                                         | VSTP-IV                                       | CS             | 294                                          | Coal         | 1.6229                                      | 0.0000                                                       | 1.6229                            |
| 43                                         | SSTPS-II                                      | CS             | 274                                          | Coal         | 1.5852                                      | 0.0000                                                       | 1.5852                            |
| 44                                         | KSTPS I AND II                                | CS             | 635                                          | Coal         | 1.5542                                      | 0.0000                                                       | 1.5542                            |
| 45                                         | SSTPS-I                                       | CS             | 556                                          | Coal         | 1.5407                                      | 0.0000                                                       | 1.5407                            |
| 46                                         | KSTPS-III                                     | CS             | 120                                          | Coal         | 1.5105                                      | 0.0000                                                       | 1.5105                            |
| <b>DECENTRALISED MOD STACK FOR AEML</b>    |                                               |                |                                              |              |                                             |                                                              |                                   |
| 1                                          | ADTPS U-1 & 2                                 | DTPS           | 500                                          | Coal         | 4.2874                                      | 0.0000                                                       | 4.2874                            |
| <b>DECCENTRALISED MOD STACK FOR TPCL-D</b> |                                               |                |                                              |              |                                             |                                                              |                                   |
| 1                                          | TPC U-7 (RLNG)-NAPM                           | TATA           | xxx                                          | Gas          | 21.9330                                     | 0.0000                                                       | 21.9330                           |
| 2                                          | TPC U-5                                       | TATA           | 500                                          | Coal/Oil/Gas | 6.4630                                      | 0.0000                                                       | 6.4630                            |
| 3                                          | TPC U-8                                       | TATA           | 250                                          | Coal         | 6.3520                                      | 0.0000                                                       | 6.3520                            |
| 4                                          | TPC U-7 (APM) *                               | TATA           | 180                                          | Gas          | 4.9810                                      | 0.0000                                                       | 4.9810                            |
| <b>DECENTRALISED MOD STACK FOR BEST</b>    |                                               |                |                                              |              |                                             |                                                              |                                   |
| 1                                          | TPC U-7 (RLNG)                                | TATA           | xxx                                          | Gas          | 21.9330                                     | 0.0000                                                       | 21.9330                           |
| 2                                          | TPC U-5                                       | TATA           | 500                                          | Coal/Oil/Gas | 6.4630                                      | 0.0000                                                       | 6.4630                            |
| 3                                          | TPC U-8                                       | TATA           | 250                                          | Coal         | 6.3520                                      | 0.0000                                                       | 6.3520                            |
| 4                                          | IEPL TO BEST                                  | STOA           | 40                                           | Coal         | 5.9900                                      | 0.0000                                                       | 5.9900                            |
| 5                                          | TPC U-7 (APM) *                               | TATA           | 180                                          | Gas          | 4.9810                                      | 0.0000                                                       | 4.9810                            |
| 6                                          | SWPGL TO BEST                                 | MTOA           | 100                                          | Coal         | 2.2600                                      | 0.0000                                                       | 2.2600                            |
| <b>DECENTRALISED MOD STACK FOR RAILWAY</b> |                                               |                |                                              |              |                                             |                                                              |                                   |
| 1                                          | DHARIWAL U-1 TO RAILWAY (*Scheduled by WRLDC) | MTOA           | 210                                          | Coal         | 2.1800                                      | 0.0000                                                       | 2.1800                            |
| <b>NOTE-</b>                               |                                               |                |                                              |              |                                             |                                                              |                                   |

1) Prepared as per Clause 33 of State Grid Code Regulation 2020 issued by Hon'ble MERC dtd. 2nd sept 2020 .

2) \*R1 updated on mahasidc.in website on dated 22.09.2023 due to revised rates of CGPL & JSW U1 submitted by CEPP.

3) Actual rates of NTPC Kawas and Gandhar are displayed on WRLDC web-site daily.

4) Hydro generation is not considered for MOD.

5) Gas and RE and Nuclear Generation is considered as MUST RUN.

6) ISGS Share of Maharashtra during peak hours (18:00 to 22:00Hrs)is shown as capacity allocated to MSEDCL.

Mod stack is prepared as per Clause 33 of State Grid Code Regulation 2020 issued by Hon. MERC on dtd. 02.09.2020

**DISCOM WISE MOD STACK OF VARIABLE CHARGES (VC) FOR SEPTEMBER-2023 (R0)**

(\*Effective from 16.09.2023 to 15.10.2023)

| Sr. no.                                    | Generating Station                            | OWNER/T<br>YPE | Installed<br>Capacity/ Share<br>in ISGS (MW) | Type of Fuel | Variable Charge Rs./KWh in Descending Order |                                                             |                                   |
|--------------------------------------------|-----------------------------------------------|----------------|----------------------------------------------|--------------|---------------------------------------------|-------------------------------------------------------------|-----------------------------------|
|                                            |                                               |                |                                              |              | Approved Variable<br>Charge(Rs/KWh)         | Impact for<br>approved change<br>in law (if any)<br>Rs./KWh | Total Variable<br>Charge(Rs/ KWh) |
| 1                                          | 2                                             | 3              | 4                                            | 5            | 6                                           | 7                                                           | 8                                 |
| <b>DECENTRALISED MOD STACK FOR MSEDCL</b>  |                                               |                |                                              |              |                                             |                                                             |                                   |
| 1                                          | KAWAS (NAPM-COM GAS)                          | CS             | -                                            | Gas          | 11.7069                                     | 0.0000                                                      | 11.7069                           |
| 2                                          | GANDHAR (NAPM-COM GAS)                        | CS             | -                                            | Gas          | 11.6211                                     | 0.0000                                                      | 11.6211                           |
| 3                                          | KAWAS (RLNG)                                  | CS             | -                                            | Gas          | 10.2516                                     | 0.0000                                                      | 10.2516                           |
| 4                                          | JGPS (RLNG)                                   | CS             | -                                            | Gas          | 10.1947                                     | 0.0000                                                      | 10.1947                           |
| 5                                          | Uran GTPS (Open cycle operation)              | MSPGCL         | -                                            | Gas          | 7.1710                                      | 0.0000                                                      | 7.1710                            |
| 6                                          | KAWAS (APM GAS)                               | CS             | 200                                          | Gas          | 5.8752                                      | 0.0000                                                      | 5.8752                            |
| 7                                          | GANDHAR (APM GAS)                             | CS             | 204                                          | Gas          | 5.8441                                      | 0.0000                                                      | 5.8441                            |
| 8                                          | APML Unit 2 & 3 (1320 MW)                     | IPP            | 1320                                         | Coal         | 1.6770                                      | 3.4973                                                      | 5.1743                            |
| 9                                          | Uran GTPS (Combined cycle operation)          | MSPGCL         | 840                                          | Gas          | 5.1400                                      | 0.0000                                                      | 5.1400                            |
| 10                                         | Parali Unit -08                               | MSPGCL         | 250                                          | Coal         | 5.0520                                      | 0.0000                                                      | 5.0520                            |
| 11                                         | Parali Unit - 06 & 07                         | MSPGCL         | 500                                          | Coal         | 4.9680                                      | 0.0000                                                      | 4.9680                            |
| 12                                         | Nasik Unit - 03 to 05                         | MSPGCL         | 630                                          | Coal         | 4.4930                                      | 0.0000                                                      | 4.4930                            |
| 13                                         | APML, 440 MW                                  | IPP            | 440                                          | Coal         | 2.4081                                      | 2.0195                                                      | 4.4276                            |
| 14                                         | Solapur STPS                                  | CS             | 642                                          | Coal         | 4.4157                                      | 0.0000                                                      | 4.4157                            |
| 15                                         | APML, Unit 1,4 & 5 1200 MW                    | IPP            | 1200                                         | Coal         | 2.3481                                      | 2.0195                                                      | 4.3676                            |
| 16                                         | APML, Unit 1,4 & 5 125 MW                     | IPP            | 125                                          | Coal         | 2.3481                                      | 2.0195                                                      | 4.3676                            |
| 17                                         | Bhusawal Unit - 03                            | MSPGCL         | 210                                          | Coal         | 4.1620                                      | 0.0000                                                      | 4.1620                            |
| 18                                         | Khargone                                      | CS             | 85                                           | Coal         | 4.1303                                      | 0.0000                                                      | 4.1303                            |
| 19                                         | CGPL                                          | CS             | 760                                          | Coal         | 3.7858                                      | 0.0000                                                      | 3.7858                            |
| 20                                         | Bhusawal Unit - 04 & 05                       | MSPGCL         | 1000                                         | Coal         | 3.7170                                      | 0.0000                                                      | 3.7170                            |
| 21                                         | Chandrapur Unit - 03 to 07                    | MSPGCL         | 1920                                         | Coal         | 3.7150                                      | 0.0000                                                      | 3.7150                            |
| 22                                         | JSW U1, Jaigad                                | IPP            | 300                                          | Coal         | 3.7100                                      | 0.0000                                                      | 3.7100                            |
| 23                                         | Gadarwara                                     | CS             | 46                                           | Coal         | 3.4716                                      | 0.0000                                                      | 3.4716                            |
| 24                                         | Khaperkheda Unit - 01 to 04                   | MSPGCL         | 840                                          | Coal         | 3.3900                                      | 0.0000                                                      | 3.3900                            |
| 25                                         | IEPL TO MSEDCL                                | STOA           | 180                                          | Coal         | 3.3580                                      | 0.0000                                                      | 3.3580                            |
| 26                                         | Koradi Unit - 06                              | MSPGCL         | 210                                          | Coal         | 3.2930                                      | 0.0000                                                      | 3.2930                            |
| 27                                         | MSTPS-II                                      | CS             | 531                                          | Coal         | 3.2417                                      | 0.0000                                                      | 3.2417                            |
| 28                                         | Chandrapur Unit - 08,09                       | MSPGCL         | 1000                                         | Coal         | 3.2330                                      | 0.0000                                                      | 3.2330                            |
| 29                                         | Paras Unit - 03 & 04                          | MSPGCL         | 500                                          | Coal         | 3.2220                                      | 0.0000                                                      | 3.2220                            |
| 30                                         | MSTPS-I                                       | CS             | 394                                          | Coal         | 3.1982                                      | 0.0000                                                      | 3.1982                            |
| 31                                         | KHTPS-II                                      | CS             | 148                                          | Coal         | 3.1941                                      | 0.0000                                                      | 3.1941                            |
| 32                                         | Koradi Unit - 08 to 10                        | MSPGCL         | 1980                                         | Coal         | 3.0540                                      | 0.0000                                                      | 3.0540                            |
| 33                                         | Khaperkheda Unit - 05                         | MSPGCL         | 500                                          | Coal         | 3.0230                                      | 0.0000                                                      | 3.0230                            |
| 34                                         | SWPGPL TO MSEDCL                              | LTOA           | 240                                          | Coal         | 2.5281                                      | 0.4390                                                      | 2.9671                            |
| 35                                         | RattanIndia Power Ltd, Amravati               | IPP            | 1200                                         | Coal         | 2.3523                                      | 0.5405                                                      | 2.8928                            |
| 36                                         | EMCO                                          | CS             | 200                                          | Coal         | 2.5988                                      | 0.0000                                                      | 2.5988                            |
| 37                                         | VSTP-I                                        | CS             | 432                                          | Coal         | 1.7456                                      | 0.0000                                                      | 1.7456                            |
| 38                                         | VSTPS-V                                       | CS             | 161                                          | Coal         | 1.6865                                      | 0.0000                                                      | 1.6865                            |
| 39                                         | VSTP-II                                       | CS             | 336                                          | Coal         | 1.6611                                      | 0.0000                                                      | 1.6611                            |
| 40                                         | VSTPS-III                                     | CS             | 275                                          | Coal         | 1.6388                                      | 0.0000                                                      | 1.6388                            |
| 41                                         | Lara                                          | CS             | 114                                          | Coal         | 1.6377                                      | 0.0000                                                      | 1.6377                            |
| 42                                         | VSTP-IV                                       | CS             | 294                                          | Coal         | 1.6229                                      | 0.0000                                                      | 1.6229                            |
| 43                                         | SSTPS-II                                      | CS             | 274                                          | Coal         | 1.5852                                      | 0.0000                                                      | 1.5852                            |
| 44                                         | KSTPS I AND II                                | CS             | 635                                          | Coal         | 1.5542                                      | 0.0000                                                      | 1.5542                            |
| 45                                         | SSTPS-I                                       | CS             | 556                                          | Coal         | 1.5407                                      | 0.0000                                                      | 1.5407                            |
| 46                                         | KSTPS-III                                     | CS             | 120                                          | Coal         | 1.5105                                      | 0.0000                                                      | 1.5105                            |
| <b>DECENTRALISED MOD STACK FOR AEML</b>    |                                               |                |                                              |              |                                             |                                                             |                                   |
| 1                                          | ADTPS U-1 & 2                                 | DTPS           | 500                                          | Coal         | 4.2874                                      | 0.0000                                                      | 4.2874                            |
| <b>DECENTRALISED MOD STACK FOR TPCL-D</b>  |                                               |                |                                              |              |                                             |                                                             |                                   |
| 1                                          | TPC U-7 (RLNG)-NAPM                           | TATA           | xxx                                          | Gas          | 21.9330                                     | 0.0000                                                      | 21.9330                           |
| 2                                          | TPC U-5                                       | TATA           | 500                                          | Coal/Oil/Gas | 6.4630                                      | 0.0000                                                      | 6.4630                            |
| 3                                          | TPC U-8                                       | TATA           | 250                                          | Coal         | 6.3520                                      | 0.0000                                                      | 6.3520                            |
| 4                                          | TPC U-7 (APM) *                               | TATA           | 180                                          | Gas          | 4.9810                                      | 0.0000                                                      | 4.9810                            |
| <b>DECENTRALISED MOD STACK FOR BEST</b>    |                                               |                |                                              |              |                                             |                                                             |                                   |
| 1                                          | TPC U-7 (RLNG)                                | TATA           | xxx                                          | Gas          | 21.9330                                     | 0.0000                                                      | 21.9330                           |
| 2                                          | TPC U-5                                       | TATA           | 500                                          | Coal/Oil/Gas | 6.4630                                      | 0.0000                                                      | 6.4630                            |
| 3                                          | TPC U-8                                       | TATA           | 250                                          | Coal         | 6.3520                                      | 0.0000                                                      | 6.3520                            |
| 4                                          | IEPL TO BEST                                  | STOA           | 40                                           | Coal         | 5.9900                                      | 0.0000                                                      | 5.9900                            |
| 5                                          | TPC U-7 (APM) *                               | TATA           | 180                                          | Gas          | 4.9810                                      | 0.0000                                                      | 4.9810                            |
| 6                                          | SWPGL TO BEST                                 | MTOA           | 100                                          | Coal         | 2.2600                                      | 0.0000                                                      | 2.2600                            |
| <b>DECENTRALISED MOD STACK FOR RAILWAY</b> |                                               |                |                                              |              |                                             |                                                             |                                   |
| 1                                          | DHARIWAL U-1 TO RAILWAY (*Scheduled by WRLDC) | MTOA           | 210                                          | Coal         | 2.1800                                      | 0.0000                                                      | 2.1800                            |
| <b>NOTE-</b>                               |                                               |                |                                              |              |                                             |                                                             |                                   |

1) Prepared as per Clause 33 of State Grid Code Regulation 2020 issued by Hon'ble MERC dtd. 2nd sept 2020 .

2) \*R0 updated on mahasidc.in website on dated 15.09.2023

3) Actual rates of NTPC Kawas and Gandhar are displayed on WRLDC web-site daily.

4) Hydro generation is not considered for MOD.

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6) ISGS Share of Maharashtra during peak hours (18:00 to 22:00Hrs)is shown as capacity allocated to MSEDCL.