

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 APRIL-2023 (R0)**

(\*Effective from 16.04.2023 to 15.05.2023)

| Sr. no.                             | Generating Station                   | OWNER/ TYPE | Installed Capacity/ Share in ISGS (MW) | Type of Fuel | Variable Charge Rs./KWh in Descending |                                                      |                                |
|-------------------------------------|--------------------------------------|-------------|----------------------------------------|--------------|---------------------------------------|------------------------------------------------------|--------------------------------|
|                                     |                                      |             |                                        |              | Approved Variable Charge(Rs/K Wh)     | Impact for approved change in law (if any) Rs. (KWh) | Total Variable Charge(Rs/ KWh) |
| 1                                   | 2                                    | 3           | 4                                      | 5            | 6                                     | 7                                                    | 8                              |
| DECENTRALISED MOD STACK FOR MSEDCL  |                                      |             |                                        |              |                                       |                                                      |                                |
| 1                                   | JGPS (NAPM COM GAS)                  | CS          | XXX                                    | Gas          | 16.4953                               | 0.0000                                               | 16.4953                        |
| 2                                   | KAWAS (NAPM COM GAS)                 | CS          | XXX                                    | Gas          | 16.3537                               | 0.0000                                               | 16.3537                        |
| 3                                   | KAWAS (RLNG)                         | CS          | XXX                                    | Gas          | 11.1523                               | 0.0000                                               | 11.1523                        |
| 4                                   | JGPS (RLNG)                          | CS          | XXX                                    | Gas          | 10.9576                               | 0.0000                                               | 10.9576                        |
| 5                                   | Uran GTPS (Open cycle Operation)     | MSPGCL      | XXX                                    | Gas          | 9.3930                                | 0.0000                                               | 9.3930                         |
| 6                                   | KAWAS (APM GAS)                      | CS          | 204                                    | Gas          | 7.3800                                | 0.0000                                               | 7.3800                         |
| 7                                   | JGPS (APM GAS)                       | CS          | 200                                    | Gas          | 7.3488                                | 0.0000                                               | 7.3488                         |
| 8                                   | Uran GTPS (Combined cycle Operation) | MSPGCL      | 840                                    | Gas          | 6.7350                                | 0.0000                                               | 6.7350                         |
| 9                                   | Gadarwara                            | CS          | 108                                    | Coal         | 4.9113                                | 0.0000                                               | 4.9113                         |
| 10                                  | Bhusawal Unit - 03                   | MSPGCL      | 210                                    | Coal         | 4.9070                                | 0.0000                                               | 4.9070                         |
| 11                                  | Parali Unit - 06 & 07                | MSPGCL      | 500                                    | Coal         | 4.8600                                | 0.0000                                               | 4.8600                         |
| 12                                  | Parali Unit -08                      | MSPGCL      | 250                                    | Coal         | 4.8570                                | 0.0000                                               | 4.8570                         |
| 13                                  | Khargone                             | CS          | 98                                     | Coal         | 4.7817                                | 0.0000                                               | 4.7817                         |
| 14                                  | Solapur STPS                         | CS          | 664                                    | Coal         | 4.7091                                | 0.0000                                               | 4.7091                         |
| 15                                  | CGPL                                 | CS          | 800                                    | Coal         | 4.7049                                | 0.0000                                               | 4.7049                         |
| 16                                  | Chandrapur Unit - 03 to 07           | MSPGCL      | 1920                                   | Coal         | 4.6250                                | 0.0000                                               | 4.6250                         |
| 17                                  | JSW U1, Jaigad                       | IPP         | 300                                    | Coal         | 4.5700                                | 0.0000                                               | 4.5700                         |
| 18                                  | Nasik Unit - 03 to 05                | MSPGCL      | 630                                    | Coal         | 4.5070                                | 0.0000                                               | 4.5070                         |
| 19                                  | Khaperkheda Unit - 01 to 04          | MSPGCL      | 840                                    | Coal         | 4.3340                                | 0.0000                                               | 4.3340                         |
| 20                                  | Bhusawal Unit - 04 & 05              | MSPGCL      | 1000                                   | Coal         | 4.2000                                | 0.0000                                               | 4.2000                         |
| 21                                  | Chandrapur Unit - 08,09              | MSPGCL      | 1000                                   | Coal         | 4.0950                                | 0.0000                                               | 4.0950                         |
| 22                                  | Khaperkheda Unit - 05                | MSPGCL      | 500                                    | Coal         | 3.9770                                | 0.0000                                               | 3.9770                         |
| 23                                  | MSTPS-II                             | CS          | 547                                    | Coal         | 3.9128                                | 0.0000                                               | 3.9128                         |
| 24                                  | MSTPS-I                              | CS          | 397                                    | Coal         | 3.8545                                | 0.0000                                               | 3.8545                         |
| 25                                  | KHTPS-II                             | CS          | 148                                    | Coal         | 3.4964                                | 0.0000                                               | 3.4964                         |
| 26                                  | Paras Unit - 03 & 04                 | MSPGCL      | 500                                    | Coal         | 3.4100                                | 0.0000                                               | 3.4100                         |
| 27                                  | Koradi Unit - 08 to 10               | MSPGCL      | 1980                                   | Coal         | 3.3710                                | 0.0000                                               | 3.3710                         |
| 28                                  | IEPL to MSEDCL                       | STOA        | 180                                    | Coal         | 3.3580                                | 0.0000                                               | 3.3580                         |
| 29                                  | Koradi Unit - 06 to 07               | MSPGCL      | 420                                    | Coal         | 3.1330                                | 0.0000                                               | 3.1330                         |
| 30                                  | SWPGL                                | LTOA        | 240                                    | Coal         | 2.5581                                | 0.4024                                               | 2.9605                         |
| 31                                  | RattanIndia Power Ltd, Amravati      | IPP         | 1200                                   | Coal         | 2.4523                                | 0.3959                                               | 2.8482                         |
| 32                                  | APML, 440 MW                         | IPP         | 440                                    | Coal         | 2.4381                                | 0.3668                                               | 2.8049                         |
| 33                                  | APML, Unit 1,4 & 5 1200 MW           | IPP         | 1200                                   | Coal         | 2.3781                                | 0.3668                                               | 2.7449                         |
| 34                                  | APML, Unit 1,4 & 5 125 MW            | IPP         | 125                                    | Coal         | 2.3781                                | 0.3668                                               | 2.7449                         |
| 35                                  | EMCO                                 | CS          | 200                                    | Coal         | 2.7309                                | 0.0000                                               | 2.7309                         |
| 36                                  | APML, Unit 2 & 3 (1320 MW)           | IPP         | 1320                                   | Coal         | 1.5390                                | 0.4677                                               | 2.0067                         |
| 37                                  | Lara                                 | CS          | 288                                    | Coal         | 1.8725                                | 0.0000                                               | 1.8725                         |
| 38                                  | KSTPS I AND II                       | CS          | 650                                    | Coal         | 1.8067                                | 0.0000                                               | 1.8067                         |
| 39                                  | KSTPS-III                            | CS          | 126                                    | Coal         | 1.7516                                | 0.0000                                               | 1.7516                         |
| 40                                  | VSTP-I                               | CS          | 444                                    | Coal         | 1.7328                                | 0.0000                                               | 1.7328                         |
| 41                                  | VSTPS-V                              | CS          | 167                                    | Coal         | 1.6624                                | 0.0000                                               | 1.6624                         |
| 42                                  | VSTP-II                              | CS          | 345                                    | Coal         | 1.6468                                | 0.0000                                               | 1.6468                         |
| 43                                  | VSTPS-III                            | CS          | 284                                    | Coal         | 1.6243                                | 0.0000                                               | 1.6243                         |
| 44                                  | VSTP-IV                              | CS          | 307                                    | Coal         | 1.6054                                | 0.0000                                               | 1.6054                         |
| 45                                  | SSTPS-II                             | CS          | 283                                    | Coal         | 1.5852                                | 0.0000                                               | 1.5852                         |
| 46                                  | SSTPS-I                              | CS          | 581                                    | Coal         | 1.5543                                | 0.0000                                               | 1.5543                         |
| DECENTRALISED MOD STACK FOR AEML    |                                      |             |                                        |              |                                       |                                                      |                                |
| 1                                   | DTPS U-1 & 2                         | DTPS        | 500                                    | Coal         | 3.9713                                | 0.0000                                               | 3.9713                         |
| DECCENTRALISED MOD STACK FOR TPCL-D |                                      |             |                                        |              |                                       |                                                      |                                |
| 1                                   | TPC U-7 (RLNG)                       | TATA        | xxx                                    | Gas          | 32.2790                               | 0.0000                                               | 32.2790                        |
| 2                                   | TPC U-5                              | TATA        | 500                                    | Coal/Oil/Gas | 7.7700                                | 0.0000                                               | 7.7700                         |
| 3                                   | TPC U-8                              | TATA        | 250                                    | Coal         | 7.5560                                | 0.0000                                               | 7.5560                         |
| 4                                   | TPC U-7 (APM) *                      | TATA        | 180                                    | Gas          | 6.6470                                | 0.0000                                               | 6.6470                         |
| DECENTRALISED MOD STACK FOR BEST    |                                      |             |                                        |              |                                       |                                                      |                                |
| 1                                   | TPC U-7 (RLNG)                       | TATA        | xxx                                    | Gas          | 32.2790                               | 0.0000                                               | 32.2790                        |
| 2                                   | TPC U-5                              | TATA        | 500                                    | Coal/Oil/Gas | 7.7700                                | 0.0000                                               | 7.7700                         |
| 3                                   | TPC U-8                              | TATA        | 250                                    | Coal         | 7.5560                                | 0.0000                                               | 7.5560                         |
| 4                                   | TPC U-7 (APM) *                      | TATA        | 180                                    | Gas          | 6.6470                                | 0.0000                                               | 6.6470                         |
| 5                                   | SWPGL TO BEST                        | MTOA        | 100                                    | Coal         | 2.2100                                | 0.0000                                               | 2.2100                         |
| DECENTRALISED MOD STACK FOR RAILWAY |                                      |             |                                        |              |                                       |                                                      |                                |
| 1                                   | DHARIWAL U-1 TO RAILWAY              | MTOA        | 210                                    | Coal         | 2.1800                                | 0.0000                                               | 2.1800                         |

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 mahasdc.in website on dated 15.04.2023

3) Actual rates of NTPC Kawas and Gandhar are displayed on WRDLC 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 APR-2023 (R1)**

(\*Effective from 26.04.2023 to 15.05.2023)

| Sr. no.                                    | Generating Station                   | OWNER/ TYPE | Installed Capacity/ Share in ISGS (MW) | Type of Fuel | Variable Charge Rs./KWh in Descending | Approved Variable Charge(Rs/KWh) | Impact for approved change in law (if any) Rs./KWh) | Total Variable Charge(Rs/ KWh) |
|--------------------------------------------|--------------------------------------|-------------|----------------------------------------|--------------|---------------------------------------|----------------------------------|-----------------------------------------------------|--------------------------------|
| 1                                          | 2                                    | 3           | 4                                      | 5            | 6                                     | 7                                | 8                                                   |                                |
| <b>DECENTRALISED MOD STACK FOR MSEDCL</b>  |                                      |             |                                        |              |                                       |                                  |                                                     |                                |
| 1                                          | KAWAS (NAPM-COM GAS)                 | CS          | XXX                                    | Gas          | 14.0305                               | 0.0000                           |                                                     | 14.0305                        |
| 2                                          | JGPS (NAPM-COM GAS)                  | CS          | XXX                                    | Gas          | 13.9080                               | 0.0000                           |                                                     | 13.9080                        |
| 3                                          | JGPS (RLNG)                          | CS          | XXX                                    | Gas          | 10.9326                               | 0.0000                           |                                                     | 10.9326                        |
| 4                                          | KAWAS (RLNG)                         | CS          | XXX                                    | Gas          | 10.7135                               | 0.0000                           |                                                     | 10.7135                        |
| 5                                          | Uran GTPS (Open cycle operation)     | MSPGCL      | XXX                                    | Gas          | 9.4740                                | 0.0000                           |                                                     | 9.4740                         |
| 6                                          | KAWAS (APM GAS)                      | CS          | 204                                    | Gas          | 7.3839                                | 0.0000                           |                                                     | 7.3839                         |
| 7                                          | JGPS (APM GAS)                       | CS          | 200                                    | Gas          | 7.3528                                | 0.0000                           |                                                     | 7.3528                         |
| 8                                          | Uran GTPS (Combined cycle operation) | MSPGCL      | 840                                    | Gas          | 6.7930                                | 0.0000                           |                                                     | 6.7930                         |
| 9                                          | APML, Unit 2 & 3 (1320 MW )          | IPP         | 1320                                   | Coal         | 1.5390                                | 3.6435                           |                                                     | 5.1825                         |
| 10                                         | APML, Unit 1,4 & 5 (440 MW )         | IPP         | 440                                    | Coal         | 2.4381                                | 2.6930                           |                                                     | 5.1311                         |
| 11                                         | APML, Unit 1,4 & 5 (1200 MW )        | IPP         | 1200                                   | Coal         | 2.3781                                | 2.6930                           |                                                     | 5.0711                         |
| 12                                         | APML, Unit 1,4 & 5 ( 125 MW )        | IPP         | 125                                    | Coal         | 2.3781                                | 2.6930                           |                                                     | 5.0711                         |
| 13                                         | Parali Unit - 06 & 07                | MSPGCL      | 500                                    | Coal         | 4.8840                                | 0.0000                           |                                                     | 4.8840                         |
| 14                                         | Parali Unit -08                      | MSPGCL      | 250                                    | Coal         | 4.8510                                | 0.0000                           |                                                     | 4.8510                         |
| 15                                         | CGPL                                 | CS          | 760                                    | Coal         | 4.8183                                | 0.0000                           |                                                     | 4.8183                         |
| 16                                         | Solapur STPS                         | CS          | 642                                    | Coal         | 4.7139                                | 0.0000                           |                                                     | 4.7139                         |
| 17                                         | JSW U1, Jaigad                       | IPP         | 300                                    | Coal         | 4.7100                                | 0.0000                           |                                                     | 4.7100                         |
| 18                                         | Khargone                             | CS          | 85                                     | Coal         | 4.6526                                | 0.0000                           |                                                     | 4.6526                         |
| 19                                         | Gadarwara                            | CS          | 46                                     | Coal         | 4.5789                                | 0.0000                           |                                                     | 4.5789                         |
| 20                                         | Bhusawal Unit - 03                   | MSPGCL      | 210                                    | Coal         | 4.4460                                | 0.0000                           |                                                     | 4.4460                         |
| 21                                         | Nasik Unit - 03 to 05                | MSPGCL      | 630                                    | Coal         | 4.1660                                | 0.0000                           |                                                     | 4.1660                         |
| 22                                         | MSTPS-II                             | CS          | 531                                    | Coal         | 4.1541                                | 0.0000                           |                                                     | 4.1541                         |
| 23                                         | MSTPS-I                              | CS          | 394                                    | Coal         | 4.1230                                | 0.0000                           |                                                     | 4.1230                         |
| 24                                         | Khaperkheda Unit - 1 to 4            | MSPGCL      | 840                                    | Coal         | 3.9140                                | 0.0000                           |                                                     | 3.9140                         |
| 25                                         | Chandrapur Unit - 3 to 7             | MSPGCL      | 1920                                   | Coal         | 3.8540                                | 0.0000                           |                                                     | 3.8540                         |
| 26                                         | Bhusawal Unit - 4 & 5                | MSPGCL      | 1000                                   | Coal         | 3.4340                                | 0.0000                           |                                                     | 3.4340                         |
| 27                                         | Paras Unit - 3 & 4                   | MSPGCL      | 500                                    | Coal         | 3.4270                                | 0.0000                           |                                                     | 3.4270                         |
| 28                                         | Khaperkheda Unit - 5                 | STOA        | 500                                    | Coal         | 3.3900                                | 0.0000                           |                                                     | 3.3900                         |
| 29                                         | EMCO                                 | CS          | 200                                    | Coal         | 3.3889                                | 0.0000                           |                                                     | 3.3889                         |
| 30                                         | IEPL TO MSEDCL                       | STOA        | 180                                    | Coal         | 3.3580                                | 0.0000                           |                                                     | 3.3580                         |
| 31                                         | KHTPS-II                             | CS          | 148                                    | Coal         | 3.3451                                | 0.0000                           |                                                     | 3.3451                         |
| 32                                         | Chandrapur Unit - 8 & 9              | MSPGCL      | 1000                                   | Coal         | 3.3350                                | 0.0000                           |                                                     | 3.3350                         |
| 33                                         | Koradi Unit - 8 to 10                | MSPGCL      | 1980                                   | Coal         | 3.1440                                | 0.0000                           |                                                     | 3.1440                         |
| 34                                         | Koradi Unit - 7                      | MSPGCL      | 210                                    | Coal         | 3.0400                                | 0.0000                           |                                                     | 3.0400                         |
| 35                                         | SWPGL TO MSEDCL                      | LTOA        | 240                                    | Coal         | 2.5581                                | 0.4216                           |                                                     | 2.9797                         |
| 36                                         | RattanIndia Power Ltd, Amravati      | IPP         | 1200                                   | Coal         | 2.4523                                | 0.5073                           |                                                     | 2.9596                         |
| 37                                         | VSTP-I                               | CS          | 432                                    | Coal         | 1.7373                                | 0.0000                           |                                                     | 1.7373                         |
| 38                                         | KSTPS I AND II                       | CS          | 635                                    | Coal         | 1.7262                                | 0.0000                           |                                                     | 1.7262                         |
| 39                                         | KSTPS-III                            | CS          | 120                                    | Coal         | 1.6776                                | 0.0000                           |                                                     | 1.6776                         |
| 40                                         | VSTPS-V                              | CS          | 161                                    | Coal         | 1.6739                                | 0.0000                           |                                                     | 1.6739                         |
| 41                                         | VSTP-II                              | CS          | 336                                    | Coal         | 1.6517                                | 0.0000                           |                                                     | 1.6517                         |
| 42                                         | VSTPS-III                            | CS          | 275                                    | Coal         | 1.6321                                | 0.0000                           |                                                     | 1.6321                         |
| 43                                         | Lara                                 | CS          | 114                                    | Coal         | 1.6149                                | 0.0000                           |                                                     | 1.6149                         |
| 44                                         | VSTP-IV                              | CS          | 294                                    | Coal         | 1.6092                                | 0.0000                           |                                                     | 1.6092                         |
| 45                                         | SSTPS-II                             | CS          | 274                                    | Coal         | 1.5463                                | 0.0000                           |                                                     | 1.5463                         |
| 46                                         | SSTPS-I                              | CS          | 556                                    | Coal         | 1.5134                                | 0.0000                           |                                                     | 1.5134                         |
| <b>DECENTRALISED MOD STACK FOR AEML</b>    |                                      |             |                                        |              |                                       |                                  |                                                     |                                |
| 1                                          | DTPS U-1 & 2                         | DTPS        | 500                                    | Coal         | 3.9713                                | 0.0000                           |                                                     | 3.9713                         |
| <b>DECCENTRALISED MOD STACK FOR TPCL-D</b> |                                      |             |                                        |              |                                       |                                  |                                                     |                                |
| 1                                          | TPC U-7 (RLNG)                       | TATA        | xxx                                    | Gas          | 32.2790                               | 0.0000                           |                                                     | 32.2790                        |
| 2                                          | TPC U-5                              | TATA        | 500                                    | Coal/Oil/Gas | 7.7700                                | 0.0000                           |                                                     | 7.7700                         |
| 3                                          | TPC U-8                              | TATA        | 250                                    | Coal         | 7.5560                                | 0.0000                           |                                                     | 7.5560                         |
| 4                                          | TPC U-7 (APM) *                      | TATA        | 180                                    | Gas          | 6.6470                                | 0.0000                           |                                                     | 6.6470                         |
| <b>DECENTRALISED MOD STACK FOR BEST</b>    |                                      |             |                                        |              |                                       |                                  |                                                     |                                |
| 1                                          | TPC U-7 (RLNG)                       | TATA        | xxx                                    | Gas          | 32.2790                               | 0.0000                           |                                                     | 32.2790                        |
| 2                                          | TPC U-5                              | TATA        | 500                                    | Coal/Oil/Gas | 7.7700                                | 0.0000                           |                                                     | 7.7700                         |
| 3                                          | TPC U-8                              | TATA        | 250                                    | Coal         | 7.5560                                | 0.0000                           |                                                     | 7.5560                         |
| 4                                          | TPC U-7 (APM) *                      | TATA        | 180                                    | Gas          | 6.6470                                | 0.0000                           |                                                     | 6.6470                         |
| 5                                          | SWPGL TO BEST                        | MTOA        | 100                                    | Coal         | 2.2100                                | 0.0000                           |                                                     | 2.2100                         |
| <b>DECENTRALISED MOD STACK FOR RAILWAY</b> |                                      |             |                                        |              |                                       |                                  |                                                     |                                |
| 1                                          | DHARIWAL U-1 TO RAILWAY              | MTOA        | 210                                    | Coal         | 2.1800                                | 0.0000                           |                                                     | 2.1800                         |

NOTE-

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 25.04.2023.due to revised rates of CGPL & JSW are 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.