



भारत सरकार  
केन्द्रीय विद्युत प्राधिकरण  
दक्षिण क्षेत्रीय विद्युत समिति  
29, रेस कोर्स क्रॉस रोड  
बेंगलूर :-560 009



Government of India  
Central Electricity Authority  
Southern Regional Power Committee  
29, Race Course Cross Road  
BENGALURU - 560 009



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सं. दक्षेविस /अअ.1/4(विचलन)/2019/  
No. SRPC/SE-1/4(Dev)/2019/

दिनांक /Dated: 8<sup>th</sup> February, 2019

सेवा में / To

वितरण सूची के अनुसार/As per Distribution List

**Subject: -Revised Deviation Settlement account statement (R1) for the period 01-13 Jan, 2019.**

Ref 1: SRPC/SE-1/4(Dev)/2019/ dated 16-01-2019

Ref 2: SRPC/SE-1/4(Dev)/2019/ dated 22-01-2019

Ref 3: SRLDC mail dated 01-02-2019

Sir,

The DSM accounts for the period 1<sup>st</sup> to 13<sup>th</sup> January, 2019 have been revised, based on the revised data furnished by SRLDC, and modified methodology for computation of Additional charge for Sign Change, by way of taking sum of daily base Deviation Amount (irrespective of payable or receivable status), and excluding additional payment for Sign Change Violations for Renewable Entities. The reasons furnished are as below:

| Sl No. | Week /Day/Period                                  | Reason(s) for revision as furnished by SRLDC  |
|--------|---|---|
| 1.     | 02-01-2019  | Schedule data revision<br>• Revision due to WRISGS correction   |
| 2.     | 03-01-2019  | Schedule data revision<br>• Revision due to Kudgi Correction.   |
| 3.     | 7 <sup>th</sup> and 8 <sup>th</sup> January, 2019 | Schedule data revision<br>• Revision due to WRISGS correction<br>• M-18-01 19-25 Blocks made zero on 08-01-2019 |

The sign change algorithm indicated in the Annexure issued along with the DSM account statement referred in Ref: 1 had an inadvertent error in the graphic depicting violation count. The graphic has been amended to tweak the discrepancy and given at Annexure attached hereto.

This methodology is being used pending clarification from NLDC, POSOCO and/or Central Electricity Regulatory Commission. The above Accounts have been revised provisionally, and would be finalised/ revised on receipt clarifications, if any, sought as above.

The inconvenience is regretted.

Yours faithfully,

संलग्नक:यथोपरि/ Encl: as above

टी वेंकटेश्वरलु

(टी वेंकटेश्वरलु/T. VENKATESWARLU)

अधीक्षण अभियन्ता(वा)/Superintending Engineer (C)

| Methodology Used for DSM Computation |   |   |
|--------------------------------------|---|---|
| S No.                                | Scenario                                      | Logic Used  |
| 1                                    | Over Injection At High Frequency By Generator | ACP   |
| 2                                    | Capping of Rates -Overdraw                    | Rate = F(r)+X * P/16>800.00 then Rate =800.00 ps/Kwhr   |
| 3                                    | Capping of Rates - Under Injection            | Rate = F(r)+X * P/16>VC or 303.04 then Rate = VC or 303.04 ps/Kwhr<br># Capped Against final rate arrived both from ACP & Frequency |
| 4                                    | In Case of Schedule=0 for Generator(s)        | Sign Change Violations are not applicable   |
| 5                                    | Renewable Entities                            | Sign Change Violations are not applicable   |
| 6                                    | Talcher-II DSM Rate                           | Average ACP of bid area E2 is taken   |
| 7                                    | In Case DC=0                                  | DSM would be settled against the generator and not against their beneficiary  |
| 8                                    | KAPS Credit                                   | Discontinued as 400 kV Kaiga – Guttur not certified as Non-ISTS with more than 50% usage by other State.                            |

Sign Change Count Algorithm

|      |    |    |    |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |
|------|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|
| 96   | 1  | 2  | 3  | 4  | 5  | 6  | 7 | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | ... | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 1  |
| -1   | -1 | -1 | -1 | -1 | -1 | -1 | 1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 0  | -1 | -1 | -1 | -1 | -1 | -1 | -1 | 1   | -1 | -1 | 1  | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| VC-> | 1  |    |    |    |    |    | 2 |    |    |    |    |    | 3  |    |    |    |    |    | 4  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |

VC- Sign Change Violations Count

This methodology is being used pending clarification from NLDC.POSOCO and/or Central Electricity Regulatory Commission for S No 1 to 6.

# Revised Deviation Settlement Account

From 01-January-2019 TO 06-January-2019

| Entity                              | Deviation (Rs)*<br>Additional | Deviation (Rs)*<br>Additional<br>for Sign<br>Change | Deviation (Rs)*<br>Postfacto | Deviation (Rs)*<br>Normal | Deviation (Rs)<br>Final | Payable<br>To Pool/<br>Receivable<br>From Pool |
|-------------------------------------|-------------------------------|---|------------------------------|---------------------------|-------------------------|--|
| <b>Beneficiaries of SR</b>          |                               |   |                              |                           |                         |  |
| <b>Andhra Pradesh</b>               | -7419571                      | -68340421   | -1375692                     | 53510995                  | <b>2,36,24,689</b>      | Payable  |
| <b>Karnataka</b>                    | -5605882                      | -12591213   | -3341690                     | 22912881                  | <b>13,74,096</b>        | Receivable                                     |
| <b>Kerala</b>                       | -679738                       | -5739540  | -2250168                     | 5800485                   | <b>28,68,961</b>        | Payable  |
| <b>*Tamil Nadu</b>                  | -10314600                     | -18614252   | -12144006                    | -14364111                 | <b>5,54,36,969</b>      | Payable  |
| <b>Telangana</b>                    | -7988747                      | -1504767  | -1436448                     | -12450136                 | <b>2,33,80,098</b>      | Payable  |
| <b>Puducherry</b>                   | -1102407                      | -858185   | -752618                      | 1578794                   | <b>11,34,416</b>        | Payable  |
| <b>PGCIL(SR)</b>                    | -129486                       | -4913271  | 0                            | 1637757                   | <b>34,05,000</b>        | Payable  |
| <b>Goa(SR)</b>                      | -292506                       | -3637608  | -1550243                     | -306781                   | <b>57,87,138</b>        | Payable  |
| <b>CGS/ISGS Under APM</b>           |                               |   |                              |                           |                         |  |
| <b>NTPC,RSTPS</b>                   | -217754                       | -350174   | --                           | -423164                   | <b>9,91,092</b>         | Payable  |
| <b>NTPC,RSTPS-III</b>               | -68099                        | -58553  | --                           | -308212                   | <b>4,34,864</b>         | Payable  |
| <b>NTPC,Talcher-II</b>              | -238362                       | -526142   | --                           | 70244                     | <b>6,94,260</b>         | Payable  |
| <b>NTPC,Sim'dri-II</b>              | -961244                       | -665895   | --                           | 1168968                   | <b>4,58,171</b>         | Payable  |
| <b>NTPC,Sim'dri-I</b>               | -81669                        | -296316   | --                           | -742637                   | <b>11,20,622</b>        | Payable  |
| <b>NTECL</b>                        | -191634                       | -715603   | --                           | -1666652                  | <b>25,73,889</b>        | Payable  |
| <b>NLC, II Stage I</b>              | -397384                       | -1902835  | --                           | 3314724                   | <b>10,14,505</b>        | Receivable                                     |
| <b>NLC, II Stage II</b>             | -1333978                      | -3183537  | --                           | 4800705                   | <b>2,83,190</b>         | Receivable                                     |
| <b>NLC, I Expn</b>                  | -199692                       | -365257   | --                           | 2735068                   | <b>21,70,119</b>        | Receivable                                     |
| <b>NLC, II Expn</b>                 | -384596                       | -485241   | --                           | -143697                   | <b>10,13,534</b>        | Payable  |
| <b>NTPL</b>                         | -452232                       | -180013   | --                           | 93358                     | <b>5,38,887</b>         | Payable  |
| <b>NTPC,Kudgi-Unit I</b>            | -1067645                      | -52339  | --                           | -2821398                  | <b>39,41,382</b>        | Payable  |
| <b>Sellers</b>                      |                               |   |                              |                           |                         |  |
| <b>SEIL/ TPCIL</b>                  | -46595                        | -102966   | --                           | -300178                   | <b>4,49,739</b>         | Payable  |
| <b>MEPL</b>                         | -7961                         | 0   | --                           | -133081                   | <b>1,41,042</b>         | Payable  |
| <b>SEL</b>                          | -13257                        | 0   | --                           | -208944                   | <b>2,22,201</b>         | Payable  |
| <b>LKPPL</b>                        | 0                             | 0   | --                           | 0                         | <b>0</b>                | Payable  |
| <b>LKPPL III</b>                    | -13113                        | 0   | --                           | -226200                   | <b>2,39,313</b>         | Payable  |
| <b>Coastal(CE)</b>                  | -147068                       | -169756   | --                           | 268555                    | <b>48,269</b>           | Payable  |
| <b>IL&amp;FS</b>                    | -146122                       | -264116   | --                           | 401111                    | <b>9,127</b>            | Payable  |
| <b>NCC (SGPL Unit-1 and Unit-2)</b> | -373943                       | -1432666  | --                           | -1076224                  | <b>28,82,833</b>        | Payable  |

| Entity   | Deviation (Rs)*<br>Additional       | Deviation (Rs)*<br>Additional<br>for Sign<br>Change | Deviation (Rs)*<br>Postfacto | Deviation (Rs)*<br>Normal | Deviation (Rs)<br>Final                   | Payable To<br>Pool/<br>Receivable<br>From Pool |
|--|-------------------------------------|---|------------------------------|---------------------------|---|--|
| <b>Inter Regional</b>  |                                     |   |                              |                           |   |  |
| <b>Western Region</b>  | -                                   | -   | -                            | -330720482                | <b>33,07,20,482</b>                       | Payable  |
| <b>Eastern Region</b>  | -                                   | -   | -                            | 223680899                 | <b>22,36,80,899</b>                       | Receivable                                     |
| <b>Infirm Generators</b>   |                                     |   |                              |                           |   |  |
| <b>*NNTPP<br/>(Lignite)</b>  | -2529440                            | --  | --                           | -2529440                  | <b>25,29,440</b>                          | Payable  |
| <b>MEPL<br/>(Imported Coal)</b>  | -1582492                            | --  | --                           | -1582492                  | <b>15,82,492</b>                          | Payable  |
| 0  | -                                   | 0   | -                            | 0                         | <b>Surplus<br/>amount in<br/>the Pool</b> | 23,77,06,101                                   |
| As per CERC Approved Detailed Procedure for Ancillary Services Operations issued on 21st Novemeber, 2016,the deviation charges for each entity is accounted without any adjustment for Payable=Receivable. |                                     |   |                              |                           |   |  |
| Note: * Propotional loss components have been calculated and added to NNTPP infirm and TN postfacto  |                                     |   |                              |                           |   |  |
| <b>Renewable Entity</b>  |                                     |   |                              |                           |   |  |
| Entity   | Net Deviation for the week<br>(MWh) |   |                              | Deviation (Rs)*<br>Normal | Deviation (Rs)<br>Final                   | Payable To<br>Pool/<br>Receivable<br>From Pool |
| <b>Solar Entity</b>  |                                     |   |                              |                           |   |  |
| <b>ACME<br/>Hissar,NPKUNTA</b>   | 299.736                             |   |                              | 1324305                   | <b>13,24,305</b>                          | Receivable                                     |
| <b>ACME<br/>Bhiwadi,NPKUNTA</b>  | 205.609                             |   |                              | 910719                    | <b>9,10,719</b>                           | Receivable                                     |
| <b>ACME<br/>Karnal,NPKUNTA</b>   | 185.896                             |   |                              | 823019                    | <b>8,23,019</b>                           | Receivable                                     |
| <b>AZURE,NPKUNTA</b>   | 163.282                             |   |                              | 719510                    | <b>7,19,510</b>                           | Receivable                                     |
| <b>FRV,NPKUNTA</b>   | 91.823                              |   |                              | 396687                    | <b>3,96,687</b>                           | Receivable                                     |
| <b>TATA,NPKUNTA</b>  | 420.57                              |   |                              | 1861014                   | <b>18,61,014</b>                          | Receivable                                     |
| <b>NTPC,NPKUNTA</b>  | 587.018                             |   |                              | 3495319                   | <b>34,95,319</b>                          | Receivable                                     |
| <b>Non-Solar Entity</b>  |                                     |   |                              |                           |   |  |
| <b>GIREL,<br/>TUTICORIN<br/>(WIND)</b>   | 548.723                             |   |                              | 1425960                   | <b>14,25,960</b>                          | Receivable                                     |
| 0  | -                                   | 0   | -                            | 0                         | <b>Deficit<br/>amount in<br/>the Pool</b> | 1,09,56,533                                    |
| <b>Total Amount to the Pool after considering the Renewable Entity</b>   |                                     |   |                              |                           | <b>Surplus<br/>amount in<br/>the Pool</b> | <b>22,67,49,568</b>                            |

# Revised Deviation Settlement Account

From 07-January-2019 TO 13-January-2019

| Entity                              | Deviation (Rs)*<br>Additional | Deviation (Rs)*<br>Additional<br>for Sign<br>Change | Deviation (Rs)*<br>Postfacto | Deviation (Rs)*<br>Normal | Deviation (Rs)<br>Final | Payable<br>To Pool/<br>Receivable<br>From Pool |
|-------------------------------------|-------------------------------|---|------------------------------|---------------------------|-------------------------|--|
| <b>Beneficiaries of SR</b>          |                               |   |                              |                           |                         |  |
| <b>Andhra Pradesh</b>               | -5548970                      | -49444190   | -1124585                     | 52529140                  | <b>35,88,605</b>        | Payable  |
| <b>Karnataka</b>                    | -3262129                      | -1850298  | -3027314                     | 7157405                   | <b>9,82,336</b>         | Payable  |
| <b>Kerala</b>                       | -439752                       | -5420279  | -2871915                     | 9127554                   | <b>3,95,608</b>         | Receivable                                     |
| <b>*Tamil Nadu</b>                  | -14204555                     | -43651553   | -19112098                    | -47553631                 | <b>12,45,21,837</b>     | Payable  |
| <b>Telangana</b>                    | -3751731                      | -1738770  | -1242663                     | -20286380                 | <b>2,70,19,544</b>      | Payable  |
| <b>Puducherry</b>                   | -1073858                      | -723752   | -882894                      | 43435                     | <b>26,37,069</b>        | Payable  |
| <b>PGCIL(SR)</b>                    | -119012                       | -6080006  | 0                            | 2026669                   | <b>41,72,349</b>        | Payable  |
| <b>Goa(SR)</b>                      | -163073                       | -4534275  | -2093060                     | -673131                   | <b>74,63,539</b>        | Payable  |
| <b>CGS/ISGS Under APM</b>           |                               |   |                              |                           |                         |  |
| <b>NTPC,RSTPS</b>                   | -55057                        | -14166  | --                           | 222238                    | <b>1,53,015</b>         | Receivable                                     |
| <b>NTPC,RSTPS-III</b>               | -36827                        | -18068  | --                           | -452493                   | <b>5,07,388</b>         | Payable  |
| <b>NTPC,Talcher-II</b>              | -269648                       | -88689  | --                           | 99365                     | <b>2,58,972</b>         | Payable  |
| <b>NTPC,Sim'dri-II</b>              | -592480                       | -2630165  | --                           | 1809135                   | <b>14,13,510</b>        | Payable  |
| <b>NTPC,Sim'dri-I</b>               | -24689                        | -116126   | --                           | -232566                   | <b>3,73,381</b>         | Payable  |
| <b>NTECL</b>                        | -167979                       | -232559   | --                           | -6439204                  | <b>68,39,742</b>        | Payable  |
| <b>NLC, II Stage I</b>              | -594711                       | -22003  | --                           | 2403007                   | <b>17,86,293</b>        | Receivable                                     |
| <b>NLC, II Stage II</b>             | -799817                       | -881668   | --                           | 4606016                   | <b>29,24,531</b>        | Receivable                                     |
| <b>NLC, I Expn</b>                  | -66805                        | 0   | --                           | 2398718                   | <b>23,31,913</b>        | Receivable                                     |
| <b>NLC, II Expn</b>                 | -422663                       | -260386   | --                           | -815315                   | <b>14,98,364</b>        | Payable  |
| <b>NTPL</b>                         | -344247                       | -260684   | --                           | -785009                   | <b>13,89,940</b>        | Payable  |
| <b>NTPC,Kudgi-Unit I</b>            | -495664                       | 0   | --                           | -3538521                  | <b>40,34,185</b>        | Payable  |
| <b>Sellers</b>                      |                               |   |                              |                           |                         |  |
| <b>SEIL/ TPCIL</b>                  | -45262                        | -116071   | --                           | 647309                    | <b>4,85,976</b>         | Receivable                                     |
| <b>MEPL</b>                         | -2691                         | 0   | --                           | -157828                   | <b>1,60,519</b>         | Payable  |
| <b>SEL</b>                          | -3605                         | 0   | --                           | -226141                   | <b>2,29,746</b>         | Payable  |
| <b>LKPPL</b>                        | 0                             | 0   | --                           | 0                         | <b>0</b>                | Payable  |
| <b>LKPPL III</b>                    | -1701                         | 0   | --                           | -18628                    | <b>20,329</b>           | Payable  |
| <b>Coastal(CE)</b>                  | -1269376                      | -1510500  | --                           | -1546021                  | <b>43,25,897</b>        | Payable  |
| <b>IL&amp;FS</b>                    | -77570                        | -488172   | --                           | 842566                    | <b>2,76,824</b>         | Receivable                                     |
| <b>NCC (SGPL Unit-1 and Unit-2)</b> | -106948                       | 0   | --                           | 536763                    | <b>4,29,815</b>         | Receivable                                     |

| Entity   | Deviation (Rs)*<br>Additional       | Deviation (Rs)*<br>Additional<br>for Sign<br>Change | Deviation (Rs)*<br>Postfacto | Deviation (Rs)*<br>Normal | Deviation (Rs)<br>Final                   | Payable To<br>Pool/<br>Receivable<br>From Pool |
|--|-------------------------------------|---|------------------------------|---------------------------|---|--|
| <b>Inter Regional</b>  |                                     |   |                              |                           |   |  |
| <b>Western Region</b>  | -                                   | -   | -                            | -364806622                | <b>36,48,06,622</b>                       | Payable  |
| <b>Eastern Region</b>  | -                                   | -   | -                            | 369750949                 | <b>36,97,50,949</b>                       | Receivable                                     |
| <b>Infirm Generators</b>   |                                     |   |                              |                           |   |  |
| <b>*NNTPP<br/>(Lignite)</b>  | -2881755                            | --  | --                           | -2881755                  | <b>28,81,755</b>                          | Payable  |
| <b>MEPL<br/>(Imported Coal)</b>  | -2204243                            | --  | --                           | -2204243                  | <b>22,04,243</b>                          | Payable  |
| 0  | -                                   | 0   | -                            | 0                         | <b>Surplus<br/>amount in<br/>the Pool</b> | 18,27,94,948                                   |
| As per CERC Approved Detailed Procedure for Ancillary Services Operations issued on 21st Novemeber, 2016,the deviation charges for each entity is accounted without any adjustment for Payable=Receivable. |                                     |   |                              |                           |   |  |
| Note: * Propotional loss components have been calculated and added to NNTPP infirm and TN postfacto  |                                     |   |                              |                           |   |  |
| <b>Renewable Entity</b>  |                                     |   |                              |                           |   |  |
| Entity   | Net Deviation for the week<br>(MWh) |   |                              | Deviation (Rs)*<br>Normal | Deviation (Rs)<br>Final                   | Payable To<br>Pool/<br>Receivable<br>From Pool |
| <b>Solar Entity</b>  |                                     |   |                              |                           |   |  |
| <b>ACME<br/>Hissar,NPKUNTA</b>   | 280.86                              |   |                              | 1239204                   | <b>12,39,204</b>                          | Receivable                                     |
| <b>ACME<br/>Bhiwadi,NPKUNTA</b>  | 99.506                              |   |                              | 440633                    | <b>4,40,633</b>                           | Receivable                                     |
| <b>ACME<br/>Karnal,NPKUNTA</b>   | 42.016                              |   |                              | 185030                    | <b>1,85,030</b>                           | Receivable                                     |
| <b>AZURE,NPKUNTA</b>   | 119.464                             |   |                              | 526056                    | <b>5,26,056</b>                           | Receivable                                     |
| <b>FRV,NPKUNTA</b>   | -3.306                              |   |                              | -26263                    | <b>26,263</b>                             | Payable  |
| <b>TATA,NPKUNTA</b>  | 369.579                             |   |                              | 1636303                   | <b>16,36,303</b>                          | Receivable                                     |
| <b>NTPC,NPKUNTA</b>  | 309.548                             |   |                              | 1844393                   | <b>18,44,393</b>                          | Receivable                                     |
| <b>Non-Solar Entity</b>  |                                     |   |                              |                           |   |  |
| <b>GIREL,<br/>TUTICORIN<br/>(WIND)</b>   | -869.076                            |   |                              | -3550771                  | <b>35,50,771</b>                          | Payable  |
| 0  | -                                   | 0   | -                            | 0                         | <b>Deficit<br/>amount in<br/>the Pool</b> | 22,94,585                                      |
| <b>Total Amount to the Pool after considering the Renewable Entity</b>   |                                     |   |                              |                           | <b>Surplus<br/>amount in<br/>the Pool</b> | <b>18,05,00,363</b>                            |