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Receipt No. 3885
Date .. 1 JAN 2018
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CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)
Office of the Chief Engineer (C&CP)

NO. 03-09/ Bills-15/ 760

Raipur Dtd.

30-Dec-2017

To,

The Chief Engineer (RA&PM)
4th Floor Vidyut Seva Bhawan
CSPDCL, Raipur

Sub: Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2017-18.

**Ref: 1) CSERC MYT Regulations 2015.
2) CSERC tariff order dtd. 31/03/2017**

In compliance to the CSERC vide order referred above, please find enclosed FCA Calculation amounting to Rs. **-77,064,128** /- for the 4th Bi-Monthly period of FY 2017-18 (Oct-17 & Nov 17). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Feb-18**

Chief Engineer (C&CP)
CSPGCL: Raipur

Copy to :-

1. The Secretary, Chhattisgarh State Electricity Regulatory Commission, New Shanti Nagar Raipur. In compliance to directives given in tariff order dtd. 23/05/2015.
2. The E.D. (Fin) CSPGCL, Raipur
3. The C.E.(EITC)CSPDCL, Raipur. Kindly upload the same in Company web site (cspc.co.in/cspgcl) under the link Fuel Cost Adjustment- 4th Bi Monthly of FY 2017-18 (Oct-2017 to Nov- 2017)
4. The S.O. to M.D. CSPGCL, Raipur
5. The S.O. to M.D. CSPDCL, Raipur
6. The Manager (B&CM) CSPGCL, Raipur

Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2017-18.

All Figures in Rs.

| Name of Plant | Oct-17 | Nov-17 | Total |
|---------------|--------------------|--------------------|--------------------|
| KTPS | -28,481,357 | -20,656,498 | -49,137,855 |
| HTPS | -11,868,159 | -5,766,095 | -17,634,254 |
| DSPM TPS | -81,575,201 | -65,989,869 | -147,565,070 |
| KW Extn | -9,456,455 | -10,140,055 | -19,596,510 |
| MTTPS | 65,534,681 | 91,334,880 | 156,869,561 |
| Total | -65,846,491 | -11,217,637 | -77,064,128 |

Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2017-18.
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As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

| Month | KTPS | HTPS | DSPM TPS | KW Extn | MTTPS | Total |
|--------------|---------------------|---------------------|----------------------|---------------------|--------------------|---------------------|
| Feb-18 | (24,568,928) | (8,817,127) | (73,782,535) | (9,798,255) | 78,434,781 | (38,532,064) |
| Mar-18 | (24,568,927) | (8,817,127) | (73,782,535) | (9,798,255) | 78,434,780 | (38,532,064) |
| Total | (49,137,855) | (17,634,254) | (147,565,070) | (19,596,510) | 156,869,561 | (77,064,128) |

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Details/Information for Computation of Energy Charge Rates

Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Korba (East) Thermal Power Station - KTPS

| | Description | Unit | Considered in Tariff order | For Month of Oct-17 | For Month of Nov-17 | Total for period |
|----|--------------------------------------------------------------------|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | | 0.154635420 | 0.162481200 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.154635420 | 0.162481200 | |
| d | Normative Transit & Handling Losses | % | 1.15% | 1.15% | 1.15% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.001778307 | 0.001888534 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.152857113 | 0.160612666 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 221,877,432.84 | 231,969,808.98 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | -4,107,556.00 | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 217,769,876.84 | 231,969,808.98 | |
| j | Rate of Coal for the period Charged by Coal Company = (i/(f*10^6)) | Rs/MT | | 1424.66 | 1444.28 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal compnay (j+k) | Rs/MT | | 1424.66 | 1444.28 | |
| m | Transportation Charge per Ton | Rs/MT | 177.98 | 177.98 | 177.98 | |
| n | Landed Price of Coal per MT (l+m) | Rs./MT | 1,641.03 | 1602.64 | 1622.26 | |
| o | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,080.85 | 3,352 | 3,314 | |
| p | Normative SHR | Kcal/ KWh | 3,110 | 3,110 | 3,110 | |
| q | Normative Specific Oil Consumption | ml/ KWh | 2.00 | 2.00 | 2.00 | |
| r | GCV of Secondary Fuel (Oil) | Kcal/ml | 10 | 10 | 10 | |
| s | Normative Auxillary Consumption | % | 11.25 | 11.25 | 11.25 | |
| t | ECR for the Period= ((p-(qxr))/(0)*(n/1000))/(1-s) | Rs/ KWh | | 1.665 | 1.704 | |
| u | ECR as considered in Tariff order | Rs/ KWh | 1.855 | 1.855 | 1.855 | |
| v | Change in ECR.(t-u) | Rs/ KWh | | -0.190 | -0.151 | |
| w | Net Generation during the Period | KWh | | 149,901,880 | 136,798,000 | |
| aa | FCA Claim for the Period (vXw) | Rs | | -28,481,357 | -20,656,498 | -49,137,855 |

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Details/Information for Computation of Energy Charge Rates

Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Korba (West) Thermal Power Station - HTPS

| | Description | Unit | Considered in Tariff order | For Month of Oct-17 | For Month of Nov-17 | Total for period |
|---|--------------------------------------------------------------------------|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | | 0.384982 | 0.416070 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.384982 | 0.416070 | |
| d | Normative Transit & Handling Losses | % | 0.20% | 0.20% | 0.20% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.000769964 | 0.000832140 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.384212036 | 0.415237860 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 583,160,108.16 | 639,976,536.40 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | (6,398,500.00) | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 576,761,608.16 | 639,976,536.40 | |
| j | Rate of Coal for the period Charged by Coal Company $= (i / (f * 10^6))$ | Rs/MT | | 1501.15 | 1541.23 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal compnay (j+k) | Rs/MT | 1,609.77 | 1501.15 | 1541.23 | |
| m | Transportation Charge per Ton | Rs/MT | 80.75 | 80.75 | 80.75 | |
| n | Landed Price of Coal per MT (l+m) | Rs./MT | 1,690.52 | 1,581.90 | 1,621.98 | |
| o | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,406.33 | 3,263 | 3,313 | |
| p | Normative SHR | Kcal/ KWh | 2,650.00 | 2,650 | 2,650 | |
| q | Normative Specific Oil Consumption | ml/ KWh | 0.80 | 0.80 | 0.80 | |
| r | GCV of Secondary Fuel (Oil) | Kcal/ml | 10 | 10 | 10 | |
| s | Normative Auxiliary Consumption | % | 9.70 | 9.70 | 9.70 | |
| t | ECR for the Period= $((p - (q * r)) / (0 * (n / 1000)) / (1 - s))$ | Rs/ KWh | | 1.418 | 1.432 | |
| u | ECR as considered in Tariff order | Rs/ KWh | 1.452 | 1.452 | 1.452 | |
| v | Change in ECR (t-u) | Rs/ KWh | | -0.034 | -0.020 | |
| w | Net Generation during the Period | KWh | | 349,063,500 | 288,304,750 | |
| x | FCA Claim for the Period (vXw) | Rs | | -11,868,159 | -5,766,095 | -17,634,25 |

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Details/Information for Computation of Energy Charge Rates

Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : - 1x500 MW KW Extn

| | Description | Unit | Considered in Tariff order | For Month of Oct-17 | For Month of Nov-17 | Total for period |
|---|--------------------------------------------------------------------|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | | 0.189618 | 0.204930 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.189618 | 0.204930 | |
| d | Normative Transit & Handling Losses | % | 0.20% | 0.20% | 0.20% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.000379236 | 0.000409860 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.189238764 | 0.204520140 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 287,228,112.88 | 315,212,324.00 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | (3,399,000.00) | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 283,829,112.88 | 315,212,324.00 | |
| j | Rate of Coal for the period Charged by Coal Company = (i/(f*10^6)) | Rs/MT | | 1499.85 | 1541.229 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal company (j+k) | Rs/MT | 1,609.77 | 1499.85 | 1541.23 | |
| m | Transportation Charge per Ton | Rs/MT | 80.75 | 80.75 | 80.75 | |
| n | Landed Price of Coal per MT (l+m) | Rs./MT | 1,690.52 | 1,580.60 | 1,621.98 | |
| o | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,400.59 | 3,267 | 3,366 | |
| p | Normative SHR | Kcal/ KWh | 2,375 | 2,375 | 2,375 | |
| q | Normative Specific Oil Consumption | ml/ KWh | 0.50 | 0.50 | 0.50 | |
| r | GCV of Secondary Fuel (Oil) | Kcal/ml | 10 | 10 | 10 | |
| s | Normative Auxiliary Consumption | % | 5.25 | 5.25 | 5.25 | |
| t | ECR for the Period = $\frac{(p-(qxr))}{(0)*(n/1000)/(1-s)}$ | Rs/ KWh | 1.243 | 1.210 | 1.205 | |
| u | ECR as considered in Tariff order | Rs/ KWh | 1.243 | 1.243 | 1.243 | |
| v | Change in ECR (t-u) | Rs/ KWh | | -0.033 | -0.038 | |
| w | Net Generation during the Period | KWh | | 286,559,250 | 266,843,550 | |
| x | FCA Claim for the Period (vXw) | Rs | | -9,456,455 | -10,140,055 | -19,596,510 |

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Details/Information for Computation of Energy Charge Rates

Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Dr. Shyama Prasad Mukharjee Thermal Power Station - DSPM TPS

| | Description | Unit | Considered in Tariff order | For Month of Oct-17 | For Month of Nov-17 | Total for period |
|----|--------------------------------------------------------------------------------|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite | (MMT) | | 0.26246195 | 0.23213438 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.26246195 | 0.23213438 | |
| d | Normative Transit & Handling Losses | % | 0.20% | 0.20% | 0.20% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.000524924 | 0.000464269 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.261937026 | 0.231670111 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 404436735.43 | 383,148,049.90 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | -5,128,745.43 | -6,984,421.20 | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 399,307,990.00 | 376,163,628.70 | |
| j | Rate of Coal for the period Charged by Coal Company = (i/(fX10 ⁶)) | Rs/MT | | 1524.44271 | 1623.703753 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal company (j+k) | Rs/MT | | 1524.44271 | 1623.703753 | |
| m | Transportation Cost Paid to railways | Rs | | 53467121.00 | 47,252,110.16 | |
| n | Transportation Charge rate paid to Railways (m/(fX10 ⁶)) | Rs/MT | | 204.12 | 203.96 | |
| o | Other Charges (per Ton) towards transportation | Rs/MT | | | | |
| p | Total per ton Transportation Charges (n+o) | | | 204.12 | 203.96 | |
| q | Landed Price of Coal per MT ((l+p) | Rs./MT | 1,921.22 | 1728.56 | 1827.66 | |
| r | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,449.20 | 3709 | 3803 | |
| s | Normative SHR | Kcal/ KWh | 2,500 | 2,500 | 2,500 | |
| t | Normative Specific Oil Consumption | ml/ KWh | 0.50 | 0.50 | 0.50 | |
| u | GCV of Secondary Fuel (Oil) | Kcal/ml | 10.00 | 10.00 | 10.00 | |
| v | Normative Auxiliary Consumption | % | 9.00 | 9.00 | 9.00 | |
| w | ECR for the Period= ((s-(txu))/(r)*(q/1000))/(1-v) | Rs/ KWh | 1.527 | 1.278 | 1.318 | |
| x | ECR as considered in Tariff order | Rs/ KWh | 1.527 | 1.527 | 1.527 | |
| y | Change in ECR (w-x) | Rs/ KWh | | -0.249 | -0.209 | |
| z | Net Generation during the Period | Kwh | | 327,611,250 | 315,741,000 | |
| aa | FCA Claim for the Period (yX z) | Rs | | -81,575,201 | -65,989,869 | -147,565,070 |

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Details/Information for Computation of Energy Charge Rates

Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Marwa Thermal Power Plant - MTPP

| | Month | Unit | Considered in Tariff order | For Month of Oct-17 | For Month of Nov-17 | Total for period |
|----|--------------------------------------------------------------------------------|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | - | 0.40480864 | 0.32642843 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | - | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.40480864 | 0.32642843 | |
| d | Normative Transit & Handling Losses | % | 0.80% | 0.80% | 0.80% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.003238469 | 0.002611427 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.401570171 | 0.323817003 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 692610877.82 | 591682801.21 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 692610877.82 | 591682801.21 | |
| j | Rate of Coal for the period Charged by Coal Company = (i/(fX10 ⁶)) | Rs/MT | | 1724.76 | 1827.21 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal company (j+k) | Rs/MT | | 1724.76 | 1827.21 | |
| m | Transportation Cost Paid to railways | Rs | | 87842328.00 | 71158650.00 | |
| n | Transportation Charge rate paid to Railways (m/(fX10 ⁶)) | Rs/MT | | 218.75 | 219.75 | |
| o | Other Charges (per Ton) towards transportation | Rs/MT | | | | |
| p | Total per ton Transportation Charges (n+o) | | | 218.75 | 219.75 | |
| q | Landed Price of Coal per MT ((l+p) | Rs./MT | 1,535 | 1,944 | 2,047 | |
| r | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,280.29 | 3,550.00 | 3,651.00 | |
| s | Normative SHR | Kcal/ KWh | 2,378 | 2,378 | 2,378 | |
| t | Normative Specific Oil Consumption | ml/ KWh | 0.50 | 0.50 | 0.50 | |
| u | GCV of Secondary Fuel (Oil) | Kcal/ml | 10 | 10 | 10 | |
| v | Normative Auxiliary Consumption | % | 5.25 | 5.25 | 5.25 | |
| w | ECR for the Period= ((s-(txu))/(r)*(q/1000)/(1-v) | Rs/ KWh | 1.2 | 1.371 | 1.404 | |
| x | ECR as considered in Tariff order | Rs/ KWh | 1.20 | 1.20 | 1.20 | |
| y | Change in ECR (w-x) | Rs/ KWh | | 0.171 | 0.204 | |
| z | Net Generation during the Period | Kwh | | 383,243,750 | 447,720,000 | |
| aa | FCA Claim for the Period (yX z) | Rs | | 65,534,681 | 91,334,880 | 156,869,561 |

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