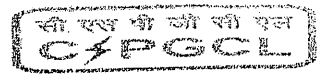


O/o. E.D. (EITC)
CSPDCL Raipur
Receipt No. 5381
Date ... 01 MAR 2018
AGM
SE (C)
EE
Section



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)
Office of the Chief Engineer (C&CP)

ALH
11/3/18

NO. 03-09/ Bills-15/ 107

Raipur Dtd. 28-Feb-2018

To,

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

Sub: Fuel Cost Adjustment calculation for the 5th 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. **379,879,357** /- for the 5th Bi-Monthly period of FY 2017-18 (Dec-17 & Jan 18). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Apr-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- 5th Bi Monthly of FY 2017-18 (Dec-2017 to Jan-2018)
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 5th Bi-Monthly period of FY 2017-18.

All Figures in Rs.

| Name of Plant | Dec-17 | Jan-18 | Total |
|---------------|--------------------|--------------------|--------------------|
| KTPS | -22,624,899 | -2,214,782 | -24,839,681 |
| HTPS | 60,103,042 | 8,978,463 | 69,081,505 |
| DSPM TPS | -69,782,297 | -18,088,589 | -87,870,886 |
| KW Extn | 46,054,990 | 3,562,878 | 49,617,868 |
| MTTPS | 138,271,563 | 235,618,988 | 373,890,551 |
| Total | 152,022,399 | 227,856,958 | 379,879,357 |

Fuel Cost Adjustment calculation for the 5th Bi-Monthly period of FY 2017-18.

RUPEES THIRTY SEVEN CRORES NINETY EIGHT LAKHS SEVENTY NINE THOUSAND THREE HUNDRED FIFTY SEVEN ONLY

As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

All Figures in Rs.

| Month | KTPS | HTPS | DSPM TPS | KW Extn | MTTPS | Total |
|--------------|---------------------|-------------------|---------------------|-------------------|--------------------|--------------------|
| Apr-18 | (12,419,841) | 34,540,753 | (43,935,443) | 24,808,934 | 186,945,276 | 189,939,679 |
| May-18 | (12,419,840) | 34,540,752 | (43,935,443) | 24,808,934 | 186,945,275 | 189,939,678 |
| Total | (24,839,681) | 69,081,505 | (87,870,886) | 49,617,868 | 373,890,551 | 379,879,357 |

[Signature]

[Signature]
SE

FORMAT-I

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 Dec-17 | For Month of Jan-18 | Total for period |
|----|--|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | | 0.151617010 | 0.120109970 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.151617010 | 0.120109970 | |
| d | Normative Transit & Handling Losses | % | 1.15% | 1.15% | 1.15% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.001743596 | 0.001381265 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.149873414 | 0.118728705 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 216,437,391.20 | 190,927,421.12 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | -11,847,565.42 | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 204,589,825.78 | 190,927,421.12 | |
| j | Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$ | Rs/MT | | 1365.08 | 1608.10 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal compnay (j+k) | Rs/MT | | 1365.08 | 1608.10 | |
| 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 | 1543.06 | 1786.08 | |
| o | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,080.85 | 3,170 | 3,389 | |
| 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 Auxiliary Consumption | % | 11.25 | 11.25 | 11.25 | |
| t | ECR for the Period= $((p-(qxr))/(0)*(n/1000))/(1-s)$ | Rs/ KWh | | 1.695 | 1.835 | |
| u | ECR as considered in Tariff order | Rs/ KWh | 1.855 | 1.855 | 1.855 | |
| v | Change in ECR (t-u) | Rs/ KWh | | -0.160 | -0.020 | |
| w | Net Generation during the Period | KWh | | 141,405,620 | 110,739,120 | |
| aa | FCA Claim for the Period (vXw) | Rs | | -22,624,899 | -2,214,782 | -24,839,681 |

[Handwritten Signature]
EE

SE

FORMAT-I

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 Dec-17 | For Month of Jan-18 | Total for period |
|---|--|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | | 0.450910 | 0.447895 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.450910 | 0.447895 | |
| d | Normative Transit & Handling Losses | % | 0.20% | 0.20% | 0.20% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.000901820 | 0.000895790 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.450008180 | 0.446999210 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 705,201,046.36 | 775,402,684.03 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | 133,385,314.59 | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 838,586,360.95 | 775,402,684.03 | |
| j | Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$ | Rs/MT | | 1863.49 | 1734.68 | |
| 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 | 1863.49 | 1734.68 | |
| 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 | 1,944.24 | 1,815.43 | |
| o | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,406.33 | 3,533 | 3,607 | |
| 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= $((p-(qxr))/(0)*(n/1000))/(1-s)$ | Rs/ KWh | | 1.610 | 1.473 | |
| u | ECR as considered in Tariff order | Rs/ KWh | 1.452 | 1.452 | 1.452 | |
| v | Change in ECR (t-u) | Rs/ KWh | | 0.158 | 0.021 | |
| w | Net Generation during the Period | KWh | | 380,399,000 | 427,545,840 | |
| x | FCA Claim for the Period (vXw) | Rs | | 60,103,042 | 8,978,463 | 69,081,505 |

[Signature]
EE

[Signature]
SE

FORMAT-I

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 Dec-17 | For Month of Jan-18 | Total for period |
|---|--|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | | 0.222090 | 0.220605 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.222090 | 0.220605 | |
| d | Normative Transit & Handling Losses | % | 0.20% | 0.20% | 0.20% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.000444180 | 0.000441210 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.221645820 | 0.220163790 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 347,337,828.84 | 381,914,754.89 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | 66,642,151.23 | | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 413,979,980.07 | 381,914,754.89 | |
| j | Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$ | Rs/MT | | 1867.75 | 1734.685 | |
| 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 | 1867.75 | 1734.69 | |
| 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 | 1,948.50 | 1,815.44 | |
| o | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,400.59 | 3,531 | 3,622 | |
| 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= $((p-(qxr))/(0)*(n/1000))/(1-s)$ | Rs/ KWh | 1.243 | 1.380 | 1.254 | |
| u | ECR as considered in Tariff order | Rs/ KWh | 1.243 | 1.243 | 1.243 | |
| v | Change in ECR (t-u) | Rs/ KWh | | 0.137 | 0.011 | |
| w | Net Generation during the Period | KWh | | 336,167,810 | 323,898,000 | |
| x | FCA Claim for the Period (vXw) | Rs | | 46,054,990 | 3,562,878 | 49,617,868 |

Alal
EE

Prakash
SE

FORMAT-I

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 Dec-17 | For Month of Jan-18 | Total for period |
|----|---|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite | (MMT) | | 0.23277087 | 0.23644471 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.23277087 | 0.23644471 | |
| d | Normative Transit & Handling Losses | % | 0.20% | 0.20% | 0.20% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.000465542 | 0.000472889 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.232305328 | 0.235971821 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 382314574.14 | 432,536,673.50 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | -4,570,745.15 | 7,839,952.10 | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 377,743,828.99 | 440,376,625.60 | |
| j | Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$ | Rs/MT | | 1626.06614 | 1866.225483 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal compnay (j+k) | Rs/MT | | 1626.06614 | 1866.225483 | |
| m | Transportation Cost Paid to railways | Rs | | 46166648.15 | 46,038,401.41 | |
| n | Transportation Charge rate paid to Railways $(m/(f \times 10^6))$ | Rs/MT | | 198.73 | 195.10 | |
| o | Other Charges (per Ton) towards transportation | Rs/MT | | | | |
| p | Total per ton Transportation Charges (n+o) | | | 198.73 | 195.10 | |
| q | Landed Price of Coal per MT ((l+p) | Rs./MT | 1,921.22 | 1824.80 | 2061.33 | |
| r | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,449.20 | 3811 | 3850 | |
| 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= $((s-(tu))/(r)*(q/1000))/(1-v)$ | Rs/ KWh | 1.527 | 1.313 | 1.468 | |
| x | ECR as considered in Tariff order | Rs/ KWh | 1.527 | 1.527 | 1.527 | |
| y | Change in ECR (w-x) | Rs/ KWh | | -0.214 | -0.059 | |
| z | Net Generation during the Period | Kwh | | 326,085,500 | 306,586,250 | |
| aa | FCA Claim for the Period (yX z) | Rs | | -69,782,297 | -18,088,589 | -87,870,886 |

Sh
EE

Om
SE

FORMAT-I

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 Dec-17 | For Month of Jan-18 | Total for period |
|----|--|-----------|----------------------------|---------------------|---------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company | (MMT) | - | 0.35462177 | 0.39278121 | |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT) | - | | | |
| c | Coal supplied by Coal/Lignite Company (a+b) | (MMT) | | 0.35462177 | 0.39278121 | |
| d | Normative Transit & Handling Losses | % | 0.80% | 0.80% | 0.80% | |
| e | Normative Transit & Handling Losses (cXd) | (MMT) | | 0.002836974 | 0.003142250 | |
| f | Net coal / Lignite Supplied (c-e) | (MMT) | | 0.351784796 | 0.389638960 | |
| g | Amount charged by the Coal / Lignite Company | (Rs.) | | 651705592.33 | 809383916.85 | |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company | (Rs.) | | | 22,717,014.78 | |
| i | Net amount Charged by Coal Company (g+h) | (Rs.) | | 651705592.33 | 832100931.63 | |
| j | Rate of Coal for the period Charged by Coal Company = (i/(fX10 ⁶)) | Rs/MT | | 1852.57 | 2135.57 | |
| k | Rate of Bonus payable to Coal Company | Rs/MT | | | | |
| l | Net Rate of coal payable to coal company (j+k) | Rs/MT | | 1852.57 | 2135.57 | |
| m | Transportation Cost Paid to railways | Rs | | 75453987.00 | 83113512.00 | |
| n | Transportation Charge rate paid to Railways (m/(fX10 ⁶)) | Rs/MT | | 214.49 | 213.31 | |
| o | Other Charges (per Ton) towards transportation | Rs/MT | | | | |
| p | Total per ton Transportation Charges (n+o) | | | 214.49 | 213.31 | |
| q | Landed Price of Coal per MT ((l+p) | Rs./MT | 1,535 | 2,067 | 2,349 | |
| r | Average GCV of coal / Lignite as fired as per tariff order | (kCal/Kg) | 3,280.29 | 3,571.00 | 3,699.634 | |
| 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 Auxilliary Consumption | % | 5.25 | 5.25 | 5.25 | |
| w | ECR for the Period= ((s-(txu))/(r)*(q/1000))/(1-v) | Rs/ KWh | 1.2 | 1.450 | 1.590 | |
| x | ECR as considered in Tariff order | Rs/ KWh | 1.20 | 1.20 | 1.20 | |
| y | Change in ECR (w-x) | Rs/ KWh | | 0.250 | 0.390 | |
| z | Net Generation during the Period | Kwh | | 553,086,250 | 604,151,250 | |
| aa | FCA Claim for the Period (yX z) | Rs | | 138,271,563 | 235,618,988 | 373,890,551 |


SE


SE