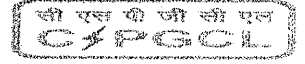


O/o CE (EITC)  
Receipt No. 2532  
Date 14 NOV 2017  
DGM (IT) / SE (O)  
EE. Raipur  
Section .....



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Chief Engineer (C&CP)

R  
14/11

NO. 03-09/ Bills-15/ 524

Raipur Dtd.

31-Aug-2017

Cwp  
14/11

To,

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

JK 14-11

**Sub: Fuel Cost Adjustment calculation for the 2nd 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 here FCA Calculation amounting to Rs. **16,217,236** /- for the 2nd Bi-Monthly period of FY-2017-18 (June-2017 & July 2017). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Oct-17**

As discussed, correction in FCA computation of KTPS has been incorporated.

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) the link Fuel Cost Adjustment- 2nd Bi Monthly of FY 2017-18 (June-2017 to July- 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

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 June-17 | For Month of July-17 | Total for period |
|----|--|-----------|----------------------------|----------------------|----------------------|------------------|
| a  | Quantity of Coal / Lignite supplied by Coal/Lignite Company          | (MMT)     |                            | 0.179233190          | 0.14364602           |                  |
| b  | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company   | (MMT)     |                            |                      |                      |                  |
| c  | Coal supplied by Coal/Lignite Company (a+b)                          | (MMT)     |                            | 0.179233190          | 0.143646020          |                  |
| d  | Normative Transit & Handling Losses                                  | %         | 1.15%                      | 1.15%                | 1.15%                |                  |
| e  | Normative Transit & Handling Losses (cXd)                            | (MMT)     |                            | 0.002061182          | 0.001651929          |                  |
| f  | Net coal / Lignite Supplied (c-e)                                    | (MMT)     |                            | 0.177172008          | 0.141994091          |                  |
| g  | Amount charged by the Coal / Lignite Company                         | (Rs.)     |                            | 270,207,157.04       | 211,169,120.70       |                  |
| h  | Adjustment (+/-) in amount charged made by Coal/Lignite Company      | (Rs.)     |                            | 667,876.93           |                      |                  |
| i  | Net amount Charged by Coal Company (g+h)                             | (Rs.)     |                            | 270,875,033.97       | 211,169,120.70       |                  |
| j  | Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))   | Rs/MT     |                            | 1528.881662          | 1487.168369          |                  |
| k  | Rate of Bonus payable to Coal Company                                | Rs/MT     |                            |                      |                      |                  |
| l  | Net Rate of coal payable to coal compnay (j+k)                       | Rs/MT     | 1,227.76                   | 1528.88              | 1487.17              |                  |
| m  | Transportation Charge per Ton  | Rs/MT     | 177.98                     | 177.98               | 177.98               |                  |
| n  | Landed Price of Coal per MT (l+m)                                    | Rs./MT    | 1,405.74                   | 1706.86              | 1665.15              |                  |
| o  | Average GCV of coal / Lignite as fired as per tariff order           | (kCal/Kg) | 2,967                      | 2,819                | 2,828                |                  |
| 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   |                            | 2.108                | 2.050                |                  |
| u  | ECR as considered in Tariff order                                    | Rs/ KWh   | 1.855                      | 1.855                | 1.855                |                  |
| v  | Change in ECR (t-u)  | Rs/ KWh   |                            | 0.253                | 0.195                |                  |
| w  | Net Generation during the Period                                     | KWh       |                            | 143,235,750          | 118,584,750          |                  |
| x  | FCA Amt. of Apr & May -17 already claimed considering ECR 1.650/unit | Rs        |                            | 39,894,381           | 72,989,312           |                  |
| y  | FCA Amt. of Apr & May -17 to be claimed with ECR 1.855/unit          | Rs        |                            | 20,468,376           | 43,123,426           |                  |
| z  | Diff. amount to be claimed   | Rs        |                            | -19,426,005          | -29,865,886          |                  |
| aa | FCA Claim for the Period (vXw)                                       | Rs        |                            | 16,812,640           | 6,741,860            | 10,070,780       |

*EE*  
EE

*SE*  
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 June-17 | For Month of July-17 | Total for period |
|---|--|-----------|----------------------------|----------------------|----------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company          | (MMT)     |                            | 0.368969             | 0.330578             |                  |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company   | (MMT)     |                            |                      |                      |                  |
| c | Coal supplied by Coal/Lignite Company (a+b)                          | (MMT)     |                            | 0.368969             | 0.330578             |                  |
| d | Normative Transit & Handling Losses                                  | %         | 0.20%                      | 0.20%                | 0.20%                |                  |
| e | Normative Transit & Handling Losses (cXd)                            | (MMT)     |                            | 0.000737938          | 0.000661156          |                  |
| f | Net coal / Lignite Supplied (c-e)                                    | (MMT)     |                            | 0.368231062          | 0.329916844          |                  |
| g | Amount charged by the Coal / Lignite Company                         | (Rs.)     |                            | 591,783,750.13       | 497,973,577.67       |                  |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company      | (Rs.)     |                            |                      | 12,316,229.88        |                  |
| i | Net amount Charged by Coal Company (g+h)                             | ( Rs.)    |                            | 591,783,750.13       | 510,289,807.55       |                  |
| j | Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$ | Rs/MT     |                            | 1607.098942          | 1546.723             |                  |
| 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                   | 1607.099             | 1546.723             |                  |
| 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                   | 1,687.85             | 1,627.47             |                  |
| o | Average GCV of coal / Lignite as fired as per tariff order           | (kCal/Kg) | 3,406.33                   | 3,612                | 3,546                |                  |
| 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   |                            | 1.367                | 1.343                |                  |
| u | ECR as considered in Tariff order                                    | Rs/ KWh   | 1.452                      | 1.452                | 1.452                |                  |
| v | Change in-ECR (t-u)  | Rs/ KWh   |                            | -0.085               | -0.109               |                  |
| w | Net Generation during the Period                                     | KWh       |                            | 401,815,210          | 447,869,530          |                  |
| x | FCA Claim for the Period (vXw )                                      | Rs        |                            | -34,154,293          | -48,817,779          | -82,972,072      |

*[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 June-17 | For Month of July-17 | Total for period |
|---|--|-----------|----------------------------|----------------------|----------------------|------------------|
| a | Quantity of Coal / Lignite supplied by Coal/Lignite Company          | (MMT)     |                            | 0.181731             | 0.162822             |                  |
| b | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company   | (MMT)     |                            |                      |                      |                  |
| c | Coal supplied by Coal/Lignite Company (a+b)                          | (MMT)     |                            | 0.181731             | 0.162822             |                  |
| d | Normative Transit & Handling Losses                                  | %         | 0:20%                      | 0.20%                | 0.20%                |                  |
| e | Normative Transit & Handling Losses (cXd)                            | (MMT)     |                            | 0.000363462          | 0.000325644          |                  |
| f | Net coal / Lignite Supplied (c-e)                                    | (MMT)     |                            | 0.181367538          | 0.162496356          |                  |
| g | Amount charged by the Coal / Lignite Company                         | (Rs.)     |                            | 291,475,578.45       | 245,270,571.53       |                  |
| h | Adjustment (+/-) in amount charged made by Coal/Lignite Company      | (Rs.)     |                            |                      | 6,066,202.78         |                  |
| i | Net amount Charged by Coal Company (g+h)                             | ( Rs.)    |                            | 291,475,578.45       | 251,336,774.31       |                  |
| j | Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$ | Rs/MT     |                            | 1607.099             | 1546.722527          |                  |
| 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                   | 1607.099             | 1546.723             |                  |
| 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                   | 1,687.85             | 1,627.47             |                  |
| o | Average GCV of coal / Lignite as fired as per tariff order           | (kCal/Kg) | 3,400.59                   | 3,614                | 3,546                |                  |
| 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                      | 1.168                | 1.148                |                  |
| u | ECR as considered in Tariff order                                    | Rs/ KWh   | 1.243                      | 1.243                | 1.243                |                  |
| v | Change in ECR (t-u)  | Rs/ KWh   |                            | -0.075               | -0.095               |                  |
| w | Net Generation during the Period                                     | KWh       |                            | 341,213,500          | 294,276,310          |                  |
| x | FCA Claim for the Period (vXw)                                       | Rs        |                            | -25,591,013          | -27,956,249          | -53,547,262      |

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

|    | Description   | Unit      | Considered in Tariff order | For Month of June-17 | For Month of July 17 | Total for period |
|----|---|-----------|----------------------------|----------------------|----------------------|------------------|
| a  | Quantity of Coal / Lignite supplied by Coal/Lignite                         | (MMT)     |                            | 0.16837308           | 0.11996874           |                  |
| b  | Adjustment (+/-) in quantity supplied made by                               | (MMT)     |                            |                      |                      |                  |
| c  | Coal supplied by Coal/Lignite Company (a+b)                                 | (MMT)     |                            | 0.16837308           | 0.11996874           |                  |
| d  | Normative Transit & Handling Losses   | %         | 0.20%                      | 0.20%                | 0.20%                |                  |
| e  | Normative Transit & Handling Losses (cXd)                                   | (MMT)     |                            | 0.000336746          | 0.000239937          |                  |
| f  | Net coal / Lignite Supplied (c-e)   | (MMT)     |                            | 0.168036334          | 0.119728803          |                  |
| g  | Amount charged by the Coal / Lignite Company                                | (Rs.)     |                            | 273334778.86         | 181,010,759.78       |                  |
| h  | Adjustment (+/-) in amount charged made by Coal/Lignite Company             | (Rs.)     |                            | 17,059,598.73        | -1,046,201.90        |                  |
| i  | Net amount Charged by Coal Company (g+h)                                    | ( Rs.)    |                            | 290,394,377.59       | 179,964,557.88       |                  |
| j  | Rate of Coal for the period Charged by Coal Company $= (i/(f \times 10^6))$ | Rs/MT     |                            | 1728.16421           | 1503.101621          |                  |
| k  | Rate of Bonus payable to Coal Company                                       | Rs/MT     |                            |                      |                      |                  |
| l  | Net Rate of coal payable to coal compnay (j+k)                              | Rs/MT     |                            | 1728.16421           | 1503.101621          |                  |
| m  | Transportation Cost Paid to railways  | Rs        |                            | 33139781.00          | 22,086,358.00        |                  |
| n  | Transportation Charge rate paid to Railways $(m/(f \times 10^6))$           | Rs/MT     |                            | 197.22               | 184.47               |                  |
| o  | Other Charges (per Ton) towards transportation                              | Rs/MT     |                            |                      |                      |                  |
| p  | Total per ton Transportation Charges (n+o)                                  |           |                            | 197.22               | 184.47               |                  |
| q  | Landed Price of Coal per MT ((l+p)  | Rs./MT    | 1,921.22                   | 1925.38              | 1687.57              |                  |
| r  | Average GCV of coal / Lignite as fired as per tariff order                  | (kCal/Kg) | 3,449.20                   | 3914                 | 3943                 |                  |
| 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=<br>$((s-(tu))/(r)*(q/1000))/(1-v)$                      | Rs/ KWh   | 1.527                      | 1.349                | 1.173                |                  |
| x  | ECR as considered in Tariff order   | Rs/ KWh   | 1.527                      | 1.527                | 1.527                | 3.054            |
| y  | Change in ECR (w-x)   | Rs/ KWh   |                            | -0.178               | -0.354               |                  |
| z  | Net Generation during the Period  | Kwh       |                            | 303,342,250          | 333,462,500          |                  |
| aa | FCA Claim for the Period (yX z)   | Rs        |                            | -53,994,921          | -118,045,725         | -172,040,646     |

  
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 : Marwa Thermal Power Plant - MTPP

|    | Month  | Unit      | Considered in Tariff order | For Month of June-17 | For Month of July-17 | Total for period |
|----|--|-----------|----------------------------|----------------------|----------------------|------------------|
| a  | Quantity of Coal / Lignite supplied by Coal/Lignite Company        | (MMT)     | -                          | 0.28945015           | 0.28725151           |                  |
| b  | Adjustment (+/-) in quantity supplied made by Coal/Lignite Company | (MMT)     | -                          |                      |                      |                  |
| c  | Coal supplied by Coal/Lignite Company (a+b)                        | (MMT)     |                            |                      |                      |                  |
| d  | Normative Transit & Handling Losses                                | %         |                            | 0.28945015           | 0.28725151           |                  |
| e  | Normative Transit & Handling Losses (cXd)                          | (MMT)     | 0.80%                      | 0.80%                | 0.80%                |                  |
| f  | Net coal / Lignite Supplied (c-e)                                  | (MMT)     |                            | 0.002315501          | 0.002298012          |                  |
| g  | Amount charged by the Coal / Lignite Company                       | (Rs.)     |                            | 0.287134549          | 0.284953498          |                  |
| h  | Adjustment (+/-) in amount charged made by Coal/Lignite Company    | (Rs.)     |                            | 658134910.92         | 545165429.34         |                  |
| i  | Net amount Charged by Coal Company (g+h)                           | (Rs.)     |                            |                      |                      |                  |
| j  | Rate of Coal for the period Charged by Coal Company = (i/(fX10^6)) | Rs/MT     |                            | 658134910.92         | 545165429.34         |                  |
| k  | Rate of Bonus payable to Coal Company                              | Rs/MT     |                            | 2292.078446          | 1913.173318          |                  |
| l  | Net Rate of coal payable to coal compnay (j+k)                     | Rs/MT     |                            |                      |                      |                  |
| m  | Transportation Cost Paid to railways                               | Rs        |                            | 2292.078446          | 1913.173318          |                  |
| n  | Transportation Charge rate paid to Railways (m/(fX10^6))           | Rs/MT     |                            | 62162341.00          | 58885597.00          |                  |
| o  | Other Charges (per Ton) towards transportation                     | Rs/MT     |                            | 216.49               | 206.65               |                  |
| p  | Total per ton Transportation Charges (n+o)                         |           |                            |                      |                      |                  |
| q  | Landed Price of Coal per MT ((l+p)                                 | Rs./MT    |                            | 216.49               | 206.65               |                  |
| r  | Average GCV of coal / Lignite as fired as per tariff order         | (kCal/Kg) | 1,535                      | 2,509                | 2,120                |                  |
| s  | Normative SHR  | Kcal/ KWh | 3,280.29                   | 3,760.00             | 3,612.00             |                  |
| t  | Normative Specific Oil Consumption                                 | ml/ KWh   | 2,378                      | 2,378                | 2,378                |                  |
| u  | GCV of Secondary Fuel (Oil)  | Kcal/ml   | 0.50                       | 0.50                 | 0.50                 |                  |
| v  | Normative Auxiliary Consumption                                    | %         | 10                         | 10                   | 10                   |                  |
| w  | ECR for the Period= ((s-(tu))/(r)*(q/1000))/(1-v)                  | Rs/ KWh   | 5.25                       | 5.25                 | 5.25                 |                  |
| x  | ECR as considered in Tariff order                                  | Rs/ KWh   | 1.2                        | 1.671                | 1.470                |                  |
| y  | Change in ECR (w-x)  | Rs/ KWh   | 1.20                       | 1.20                 | 1.20                 | 2.40             |
| z  | Net Generation during the Period                                   | Kwh       |                            | 0.471                | 0.270                |                  |
| aa | FCA Claim for the Period (yX z)                                    | Rs        |                            | 426,597,500          | 421,403,750          |                  |
|    |  |           |                            | 200,927,423          | 113,779,013          | 314,706,436      |

*[Signature]*  
EE

*[Signature]*  
SE

## Fuel Cost Adjustment calculation for the 2nd Bi-Monthly period of FY 2017-18.

All Figures in Rs.

| Name of Plant | Jun-17             | Jul-17             | Total             |
|---------------|--------------------|--------------------|-------------------|
| KTPS          | 16,812,640         | -6,741,860         | 10,070,780        |
| HTPS          | -34,154,293        | -48,817,779        | -82,972,072       |
| DSPM TPS      | -53,994,921        | -118,045,725       | -172,040,646      |
| KW Extn       | -25,591,013        | -27,956,249        | -53,547,262       |
| MTTPS         | 200,927,423        | 113,779,013        | 314,706,436       |
| <b>Total</b>  | <b>103,999,836</b> | <b>-87,782,600</b> | <b>16,217,236</b> |

Fuel Cost Adjustment calculation for the 2nd Bi-Monthly period of FY 2017-18  
 RUPEES ONE CRORES SIXTY TWO LAKHS SEVENTEEN THOUSAND TWO HUNDRED THIRTY SIX ONLY

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

| Month        | KTPS              | HTPS                 | DSPM TPS              | KW Extn              | MTTPS              | Total             |
|--------------|-------------------|----------------------|-----------------------|----------------------|--------------------|-------------------|
| Oct-17       | 5,035,390         | (41,486,036)         | (86,020,323)          | (26,773,631)         | 157,353,218        | 8,108,618         |
| Nov-17       | 5,035,390         | (41,486,036)         | (86,020,323)          | (26,773,631)         | 157,353,218        | 8,108,618         |
| <b>Total</b> | <b>10,070,780</b> | <b>-(82,972,072)</b> | <b>-(172,040,646)</b> | <b>-(53,547,262)</b> | <b>314,706,436</b> | <b>16,217,236</b> |

*[Signature]*  
TE

*[Signature]*  
SE