

C/o. E.D. (EITC)  
CSPDCL Raipur  
Receipt No. 6242  
Date 31 DEC 2018  
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**CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED**

(A Govt. of C.G. Undertaking)

**Office of the Executive Director (C&CP)**

NO. 03-09/ Bills-15/ 749

Raipur Dtd.

28-Dec-2018

To,

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

**Sub: Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2018-19.**

**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. **432,853,452** /- for the 4th Bi-Monthly period of FY 2018-19 (Oct-18 & Nov- 18). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Feb-19**

Executive Director (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 E.D. (O&M:Gen) CSPGCL, Raipur
- 4 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 2018-19 (Oct -2018 to Nov- 2018)
- 5 The S.O. to M.D. CSPGCL, Raipur
- 6 The S.O. to M.D. CSPDCL, Raipur
- 7 The Manager (B&CM) CSPGCL, Raipur

## Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2018-19.

All Figures in Rs.

Name of Plant	Oct-18	Nov-18	Total
KTPS	31295356	37,173,717	68,469,073
HTPS	64692825	34,358,688	99,051,513
DSPM TPS	-663055	-8,584,544	-9,247,599
KW Extn	46307974	21,165,252	67,473,226
MTTPS	91244228	115,863,011	207,107,239
<b>Total</b>	<b>232,877,328</b>	<b>199,976,124</b>	<b>432,853,452</b>

RUPEES FORTY THREE CRORES TWENTY EIGHT LAKHS FIFTY THREE THOUSAND FOUR HUNDRED FIFTY TWO 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
Feb-19	34,234,537	49,525,757	-4,623,800	33,736,613	103,553,620	216,426,727
Mar-19	34,234,536	49,525,756	-4,623,799	33,736,613	103,553,619	216,426,725
<b>Total</b>	<b>68,469,073</b>	<b>99,051,513</b>	<b>-9,247,599</b>	<b>67,473,226</b>	<b>207,107,239</b>	<b>432,853,452</b>

  
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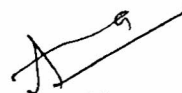
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**Details/Information for Computation of Energy Charge Rates**

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- 18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.129203400	0.10404275	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.129203400	0.104042750	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001485839	0.001196492	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.127717561	0.102846258	
g	Amount charged by the Coal / Lignite Company	(Rs.)		215,424,792.93	173,473,669.30	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	( Rs.)		215,424,792.93	173,473,669.30	
j	Rate of Coal for the period Charged by Coal Company $= (i / (f * 10^6))$	Rs/MT		1686.73	1686.73	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1686.73	1686.73	
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	1864.71	1864.71	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,007	2,831	
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		2.159	2.293	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.304	0.438	
w	Scheduled Generation during the Period	KWh		102,945,250	84,871,500	
aa	FCA Claim for the Period (vXw )	Rs		31,295,356	37173717	68,469,073

  
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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-18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.406020	0.388131	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.406020	0.388131	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000812040	0.000776262	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.405207960	0.387354738	
g	Amount charged by the Coal / Lignite Company	(Rs.)		721094849.42	689323838.68	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		2103796.87		
i	Net amount Charged by Coal Company (g+h)	( Rs.)		723198646.29	689,323,838.68	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1784.76	1779.57	
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	1784.76	1779.57	
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	1,865.51	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,407	3,562	
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		1.602	1.528	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.150	0.076	
w	Net Generation during the Period	KWh		431,285,500	452,088,000	
x	FCA Claim for the Period (vXw )	Rs		64692825	34358688	99,051,513

  
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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-18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.199980	0.191169	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.199980	0.191169	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000399960	0.000382338	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.199580040	0.190786662	
g	Amount charged by the Coal / Lignite Company	(Rs.)		355,166,119.82	339,517,711.58	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		1036198.52		
i	Net amount Charged by Coal Company (g+h)	( Rs.)		356202318.34	339,517,711.58	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1784.76	1779.57	
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	1784.76	1779.57	
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	1,865.51	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,383	3,559	
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		1.379	1.307	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.136	0.064	
w	Scheduled Generation during the Period	KWh		340,499,810	330,707,060	
x	FCA Claim for the Period (vXw )	Rs		46307974.16	21,165,252	67,473,226

  
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**Details/Information for Computation of Energy Charge Rates**

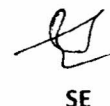
Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Description	Unit	Considered in Tariff order	For Month of Oct-18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.26911151	0.26136799	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.26911151	0.26136799	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000538223	0.000522736	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.268573287	0.260845254	
g	Amount charged by the Coal / Lignite Company	(Rs.)		495133272.69	471,438,350.45	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		9,398,378.78	-654,498.80	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		504,531,651.47	470,783,851.65	
j	Rate of Coal for the period Charged by Coal Company $= (i/(f \times 10^6))$	Rs/MT		1878.56230	1804.83963	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1878.5623	1804.83963	
m	Transportation Cost Paid to railways	Rs		60911280.00	66363104.44	
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		226.80	254.42	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			226.80	254.42	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2105.36	2059.26	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3784.24	3768.00	
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		1.525	1.498	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		-0.002	-0.029	
z	Scheduled Generation during the Period	Kwh		331,527,500	296,018,750	
aa	FCA Claim for the Period (yX z)	Rs		-663055	-8,584,544	-9,247,599

  
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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- 18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.45224397	0.40887411	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.45224397	0.40887411	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.003617952	0.003270993	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.448626018	0.405603117	
g	Amount charged by the Coal / Lignite Company	(Rs.)		924820548.21	845283842.26	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-66,136,343.60	-55,310,484.83	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		858684204.61	789973357.43	
j	Rate of Coal for the period Charged by Coal Company $= (i / (f \times 10^6))$	Rs/MT		1914.03	1947.65	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1914.03	1947.65	
m	Transportation Cost Paid to railways	Rs		103542367.00	109993138.00	
n	Transportation Charge rate paid to Railways $(m / (f \times 10^6))$	Rs/MT		230.80	271.18	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			230.80	271.18	
q	Landed Price of Coal per MT $((l+p))$	Rs./MT	1,535	2,144.83	2,219	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,521	3,527	
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		1.526	1.576	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.153	0.203	
z	Scheduled Generation during the Period	Kwh		596,367,500	570,753,750	
aa	FCA Claim for the Period (yX z)	Rs		91244227.5	115863011.3	207,107,239

  
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