

O/o CE (EITC)
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Section



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

NO. 03-09/ Bills-15/ 876

Raipur Dtd.

31-Dec-2019

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 2019-20.

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

In compliance to the CSERC order referred above, please find enclosed FCA Calculation amounting to Rs. **489,149,658** /- for the 4th Bi-Monthly period of FY 2019-20 (Oct-19 & Nov-19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Feb-20**

Chief Engineer (C&RA)
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. (Fuel Mgmt.) CSPGCL, Raipur
- 5 The C.E.(EITC) CSPDCL, Raipur. Kindly upload the same in Company web site (cspc.co.in/cspgc under the link Fuel Cost Adjustment-4th Bi Monthly of FY 2019-20 Oct-2019 to Nov-2019)
- 6 The S.O. to M.D. CSPGCL, Raipur
- 7 The S.O. to M.D. CSPDCL, Raipur
- 8 The Manager (B&CM) CSPGCL, Raipur

Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2019-20.

All Figures in Rs.

Name of Plant	Oct-19	Nov-19	Total
KTPS	408480	-36,003,732	-35,595,252
HTPS	72598438	22,741,650	95,340,088
DSPM TPS	53124660	83,789,073	136,913,733
KW Extn	49014557	18,751,438	67,765,995
MTTPS	144384360	80,340,734	224,725,094
Total	319,530,495	169,619,163	489,149,658

RUPEES FORTY EIGHT CRORES NINETY ONE LAKHS FORTY NINE THOUSAND SIX HUNDRED FIFTY EIGHT 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
Feb-20	-17,797,626	47,670,044	68,456,867	33,882,997	112,362,547	244,574,829
Mar-20	-17,797,626	47,670,044	68,456,866	33,882,998	112,362,547	244,574,829
Total	-35,595,252	95,340,088	136,913,733	67,765,995	224,725,094	489,149,658

All Figures in Rs.


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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-19	For Month of Nov-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.118596100	0.117307050	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.118596100	0.117307050	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001363855	0.001349031	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.117232245	0.115958019	
g	Amount charged by the Coal / Lignite Company	(Rs.)		198,672,860.44	196,513,436.72	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-35,996,450.40	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		198,672,860.44	160,516,986.32	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1694.69	1384.27	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1694.69	1384.27	
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	1872.67	1562.25	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,503	3,584.00	
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 Auxilliary Consumption	%	11.25	11.25	11.25	
t	ECR for the Period= $((p-(qxr))/(0*(n/1000)/(1-s))$	Rs/ KWh		1.861	1.518	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.006	-0.337	
w	Scheduled Generation during the Period	KWh		68,080,000	106,836,000	
aa	FCA Claim for the Period (vXw)	Rs		408,480	-36,003,732	-35,595,252


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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-19	For Month of Nov-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.202541	0.328970	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.202541	0.328970	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000405082	0.000657940	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.202135918	0.328312060	
g	Amount charged by the Coal / Lignite Company	(Rs.)		361309487.20	586844056.28	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		17759946.09	-18304999.65	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		379069433.29	568539056.63	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1875.32	1731.70	
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	1875.32	1731.70	
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	1,956.07	1,812.45	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,476	3,480	
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		1.646	1.524	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.194	0.072	
w	Scheduled Generation during the Period	KWh		374,218,750	315,856,250	
x	FCA Claim for the Period (vXw)	Rs		72598438	22741650	95,340,088


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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-19	For Month of Nov-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.099759	0.162030	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.099759	0.162030	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000199518	0.000324060	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.099559482	0.161705940	
g	Amount charged by the Coal / Lignite Company	(Rs.)		177,958,404.16	289,042,594.92	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		8747436.21	-9015895.35	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		186705840.37	280026699.57	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1875.32	1731.70	
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	1875.32	1731.70	
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	1,956.07	1,812.45	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,477	3,476	
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		1.407	1.304	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.164	0.061	
w	Scheduled Generation during the Period	KWh		298,869,250	307,400,620	
x	FCA Claim for the Period (vXw)	Rs		49,014,557	18,751,438	67,765,995


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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-19	For Month of Nov-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.13606823	0.18457635	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.13606823	0.18457635	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000272136	0.000369153	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.135796094	0.184207197	
g	Amount charged by the Coal / Lignite Company	(Rs.)		250057085.65	362913728.45	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		996,120.15	10,513,838.50	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		251,053,205.80	352,399,889.95	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10 ⁶))	Rs/MT		1848.75	1913.06	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1848.75	1913.06	
m	Transportation Cost Paid to railways	Rs		32896720.02	50712690.50	
n	Transportation Charge rate paid to Railways (m/(fX10 ⁶))	Rs/MT		242.25	275.30	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			242.25	275.30	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2091.00	2188.36	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3289.03	3273.96	
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		1.743	1.833	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.216	0.306	
z	Scheduled Generation during the Period	Kwh		245,947,500	273,820,500	
aa	FCA Claim for the Period (yX z)	Rs		53,124,660	83,789,073	136,913,733


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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-19	For Month of Nov-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.211301870	0.22763407	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.21130187	0.22763407	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001690415	0.001821073	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.209611455	0.225812997	
g	Amount charged by the Coal / Lignite Company	(Rs.)		479816656.07	418480191.24	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		26,181,912.87	-3,809,189.84	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		505998568.94	414671001.40	
j	Rate of Coal for the period Charged by Coal Company =(i/(fX10^6))	Rs/MT		2413.98	1836.35	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		2413.98	1836.35	
m	Transportation Cost Paid to railways	Rs		50066331.00	84876483.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		238.85	375.87	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			238.85	375.87	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,652.83	2,212.22	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,556	3,252.00	
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		1.869	1.704	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.496	0.331	
z	Scheduled Generation during the Period	Kwh		291,097,500	242,721,250	
aa	FCA Claim for the Period (yX z)	Rs		144,384,360	80,340,734	224,725,094



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