

3/o E.D.. (EITC)  
CSPDCL Raipur  
Receipt No. 4670  
Date 08 JAN 2021  
GM (IT)  
E (O)SE  
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Section



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

NO. 03-09/ Bills-15/ 698

Raipur Dtd.

31-Dec-2020

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 2020-21.**  
**Ref:** 1) CSERC MYT Regulations 2015.  
2) CSERC tariff order dtd. 30/05/2020  
3) CSERC guideline vide letter no 186 dtd. 27/01/2020

In compliance to the CSERC order referred above, please find enclosed FCA Calculation amounting to Rs. **440,264,119** /- for the 4th Bi-Monthly period of FY 2020-21 (Oct-20 & Nov-20). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Feb-21**

In compliance to CSERC guidelines, cost of coal of Gare Palma-III coal block (GP-III) supplied to ABVTPS has been computed on notified rate of Coal India Ltd. commensurate with the grade of coal.

Executive Director (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 C.E. (O&M:Gen) CSPGCL, Raipur
- 3 The G.M. (Fin) CSPGCL, Raipur
- 4 The E.D. (Fuel Mgmt.) CSPGCL, Raipur
- 5 The C.E.(EITC) CSPDCL, Raipur. Kindly upload the same in Company web site (cspgcl.co.in/cspgcl) under the link Fuel Cost Adjustment-4th Bi Monthly of FY 2020-21 (Oct-2020 to Nov-2020)
- 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 2020-21.

All Figures in Rs.

Name of Plant	Oct-20	Nov-20	Total
KTPS	15976067	30,527,765	46,503,832
HTPS	25466929	19,397,497	44,864,426
DSPM TPS	92216394	37,069,170	129,285,564
KW Extn	16224216	14,559,518	30,783,734
MTTPS	82710540	106,116,023	188,826,563
<b>Total</b>	<b>232,594,146</b>	<b>207,669,973</b>	<b>440,264,119</b>

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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-21	23,251,916	22,432,213	64,642,782	15,391,867	94,413,282	220,132,060
Mar-21	23,251,916	22,432,213	64,642,782	15,391,867	94,413,281	220,132,059
<b>Total</b>	<b>46,503,832</b>	<b>44,864,426</b>	<b>129,285,564</b>	<b>30,783,734</b>	<b>188,826,563</b>	<b>440,264,119</b>

  
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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-20	For Month of Nov-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.123575750	0.102227650	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.123575750	0.102227650	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001421121	0.001175618	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.122154629	0.101052032	
g	Amount charged by the Coal / Lignite Company	(Rs.)		207,014,798.42	171,252,340.16	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Coal Sampling Fees	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		207,014,798.42	171,252,340.16	
k	Rate of Coal for the period Charged by Coal Company =j/(f*10^6)	Rs/MT		1694.69	1694.69	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal company (k+l)	Rs/MT		1694.69	1694.69	
n	Transportation Charge per Ton	Rs/MT	177.98	177.98	177.98	
o	Landed Price of Coal per MT (m+n)	Rs./MT	1,641.03	1872.67	1872.67	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,241	3,001.00	
q	Normative SHR	Kcal/ KWh	3,110	3,110	3,110	
r	Normative Specific Oil Consumption	ml/ KWh	2.00	2.00	2.00	
s	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
t	Normative Auxiliary Consumption	%	11.25	11.25	11.25	
u	ECR for the Period= ((q-(rs))/(o)*(o/1000))/(1-t)	Rs/ KWh		2.012	2.173	
v	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
w	Change in ECR (u-v)	Rs/ KWh		0.157	0.318	
aa	Scheduled Generation during the Period	KWh		101,758,390	95,999,260	
ab	FCA Claim for the Period (u*aa )	Rs		15,976,067	30,527,765	46,503,832

  
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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-20	For Month of Nov-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.405618	0.402239	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.405618	0.402239	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000811236	0.000804478	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.404807	0.401434522	
g	Amount charged by the Coal / Lignite Company	(Rs.)		723575135.84	717547733.39	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Coal Sampling fees	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		723575135.84	717547733.39	
k	Rate of Coal for the period Charged by Coal Company = (j/(f*10^6))	Rs/MT		1787.46	1787.46	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT	1,609.77	1787.46	1787.46	
n	Transportation Charge per Ton	Rs/MT	80.75	80.75	80.75	
o	Landed Price of Coal per MT (m+n)	Rs./MT	1,690.52	1,868.21	1,868.21	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,609	3,631	
q	Normative SHR	Kcal/ KWh	2,650.00	2,650	2,650	
r	Normative Specific Oil Consumption	ml/ KWh	0.80	0.80	0.80	
s	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
t	Normative Auxiliary Consumption	%	9.70	9.70	9.70	
u	ECR for the Period= ((q-(rs))/(p)*(o/1000))/(1-t)	Rs/ KWh		1.515	1.505	
v	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
w	Change in ECR (u-v)	Rs/ KWh		0.063	0.053	
aa	Scheduled Generation during the Period	KWh		404,236,970	365,990,500	
ab	FCA Claim for the Period (wXaa)	Rs		25,466,929	19,397,497	44,864,426

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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-20	For Month of Nov-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.199782	0.19811800	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.199782	0.198118	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000399564	0.000396236	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.199382	0.197721764	
g	Amount charged by the Coal / Lignite Company	(Rs.)		356,387,753.44	353,419,032.91	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Coal Sampling fees					
j	Net amount Charged by Coal Company (g+h+i)	( Rs.)		356387753.44	353419032.91	
k	Rate of Coal for the period Charged by Coal Company = $(j/(f*10^6))$	Rs/MT		1787.46	1787.46	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal company (k+l)	Rs/MT	1,609.77	1787.46	1787.46	
n	Transportation Charge per Ton	Rs/MT	80.75	80.75	80.75	
o	Landed Price of Coal per MT (m+n)	Rs./MT	1,690.52	1,868.21	1,868.21	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3614.00	3632.00	
q	Normative SHR	Kcal/ KWh	2,375	2,375	2,375	
r	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
s	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
t	Normative Auxiliary Consumption	%	5.25	5.25	5.25	
u	ECR for the Period= $((q-(rs))/(p)*(o/1000))/(1-t)$	Rs/ KWh		1.293	1.287	
v	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
w	Change in ECR (u-v)	Rs/ KWh		0.05	0.044	
aa	Scheduled Generation during the Period	KWh		324,484,320	330,898,130	
ab	FCA Claim for the Period (wXaa)	Rs		16,224,216	14,559,518	30,783,734

  
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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-20	For Month of Nov-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.27893477	0.31635874	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.27893477	0.31635874	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000557870	0.000632717	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.278376900	0.315726023	
g	Amount charged by the Coal / Lignite Company	(Rs.)		491038771.99	534971905.59	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Coal Sampling fees	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		491,038,771.99	534,971,905.59	
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10 <sup>6</sup> ))	Rs/MT		1763.94	1694.42	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal company (k+l)	Rs/MT		1763.94	1694.42	
n	Transportation Cost Paid to railways	Rs		117279766.00	125594536.00	
o	Transportation Charge rate paid to Railways (n/(fX10 <sup>6</sup> ))	Rs/MT		421.30	397.80	
p	Other Charges (per Ton) towards transportation	Rs/MT				
q	Total per ton Transportation Charges (o+p)			421.30	397.80	
r	Landed Price of Coal per MT ((l+q)	Rs./MT	1,921.22	2185.24	2092.22	
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3235.59	3403.67	
t	Normative SHR	Kcal/ KWh	2,500	2,500	2,500	
u	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
v	GCV of Secondary Fuel (Oil)	Kcal/ml	10.00	10.00	10.00	
w	Normative Auxiliary Consumption	%	9.00	9.00	9.00	
x	ECR for the Period= ((t-(uxv))/(s)*(r/1000))/(1-w)	Rs/ KWh		1.852	1.685	
y	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
z	Change in ECR (x-y)	Rs/ KWh		0.325	0.158	
aa	Scheduled Generation during the Period	Kwh		283,742,750	234,615,000	
ab	FCA Claim for the Period (zX aa)	Rs		92,216,394	37,069,170	129,285,564

  
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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 - ABVTPS

	Month	Unit	Considered in Tariff order	For Month of Oct-20	For Month of Nov-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.301995440	0.407443240	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-	0.00000000	0.00000000	
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.30199544	0.40744324	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002415964	0.003259546	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.299579476	0.404183694	
g	Amount charged by the Coal / Lignite Company	(Rs.)		470774865.43	685153966.06	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.00	0.00	
i	Coal Sampling Fes	( Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	( Rs.)		470774865.43	685153966.06	
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10^6))	Rs/MT		1571.45	1695.15	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1571.45	1695.15	
n	Transportation Cost Paid to railways	Rs		82289932.00	126458293.00	
o	Transportation Charge rate paid to Railways (n/(fX10^6))	Rs/MT		274.68	312.87	
p	Road Charges (per Ton) towards transportation	Rs/MT		419.45	230.12	
q	Total per ton Transportation Charges (o+p)			694.13	542.99	
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,265.58	2,238.14	
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,399	3,451	
t	Normative SHR	Kcal/ kWh	2,378	2,378	2,378	
u	Normative Specific Oil Consumption	ml/ kWh	0.50	0.50	0.50	
v	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
w	Normative Auxiliary Consumption	%	5.25	5.25	5.25	
x	ECR for the Period= ((1-(uxv))/(s)*(r/1000))/(1-w)	Rs/ kWh		1.669	1.624	
y	ECR as considered in Tariff order	Rs/ kWh	1.373	1.373	1.373	
z	Change in ECR (x-y)	Rs/ kWh		0.296	0.251	
aa	Scheduled Generation during the Period	Kwh		279,427,500	422,773,000	
ab	Net FCA payable			82,710,540	106,116,023	188,826,563

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Name of the Company : Chhattisgarh State Power Generation Company Limited  
 Name of the Power Station : Marwa Thermal Power Plant - ABVTPS - SECL

	Month	Unit	Considered in Tariff order	For Month of Oct-20	For Month of Nov-20
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.125317520	0.276669090
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-		
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.12531752	0.27666909
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001002540	0.002213353
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.124314980	0.274455737
g	Amount charged by the Coal / Lignite Company	(Rs.)		289929797.83	554345271.06
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
i	Coal Sampling Fes	(Rs.)			
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		289929797.83	554345271.06
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10^6))	Rs/MT		2332.22	2019.80
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		2332.22	2019.8
n	Transportation Cost Paid to railways	Rs		38306267.00	92774462.00
o	Transportation Charge rate paid to Railways (n/(fX10^6))	Rs/MT		308.14	338.03
p	Road Charges (per Ton) towards transportation	Rs/MT			
q	Total per ton Transportation Charges (o+p)			308.14	338.03
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,640.36	2,357.83
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29		
t	Normative SHR	Kcal/ KWh	2,378		
u	Normative Specific Oil Consumption	ml/ KWh	0.50		
v	GCV of Secondary Fuel (Oil)	Kcal/ml	10		
w	Normative Auxiliary Consumption	%	5.25		
x	ECR for the Period= (((t-uxv))/(s)*(r/1000))/(1-w)	Rs/ KWh			
y	ECR as considered in Tariff order	Rs/ KWh	1.373		
z	Change in ECR (x-y)	Rs/ KWh			
aa	Scheduled Generation during the Period	Kwh			
ab'	FCA Claim for the Period (yX z)	Rs			

  
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Name of the Company : Chhattisgarh State Power Generation Company Limited  
Name of the Power Station : Marwa Thermal Power Plant - ABVTPS - (GP-III)

	Month	Unit	Considered in Tariff order	For Month of Oct-20	For Month of Nov-20
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.176677920	0.13077415
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-		
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.17667792	0.13077415
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001413423	0.001046193
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.175264497	0.129727957
g	Amount charged by the Coal / Lignite Company	(Rs.)		180845067.60	130808695.00
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
i	Coal Sampling Fes				
j	Net amount Charged by Coal Company (g+h+i)	( Rs.)		180845067.60	130808695.00
k	Rate of Coal for the period Charged by Coal Company =j/(fX10^6))	Rs/MT		1031.84	1008.33
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1031.84	1008.33
n	Transportation Cost Paid to railways	Rs		43983665.00	33683831.00
o	Transportation Charge rate paid to Railways (n/(fX10^6))	Rs/MT		250.96	259.65
p	Road Charges (per Ton) towards transportation	Rs/MT		716.97	716.97
q	Total per ton Transportation Charges (o+p)			967.93	976.62
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	1,999.77	1,984.95
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29		
t	Normative SHR	Kcal/ KWh	2,378		
u	Normative Specific Oil Consumption	ml/ KWh	0.50		
v	GCV of Secondary Fuel (Oil)	Kcal/ml	10		
w	Normative Auxiliary Consumption	%	5.25		
x	ECR for the Period= (((t-(uxv))/(s)*(r/1000))/(1-w)	Rs/ KWh			
y	ECR as considered in Tariff order	Rs/ KWh	1.373		
z	Change in ECR (x-y)	Rs/ KWh			
aa	Scheduled Generation during the Period	Kwh			
ab'	FCA Claim for the Period (yX z)	Rs			

Note: As per CSERC letter no. 13-EH-30/2020/186 dtd 27.01.2020, Coal cost is taken from SECL notified rates along with applicable taxes for GP-III.  
Railway freight charges are taken on actual basis.  
Road transport charge is as per work order allotted to "Gare palma III Collieries limited".

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