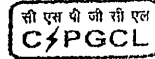


O/o CE (EITC)
Receipt No.
Date **06 MAY 2020**
DGM (IT) / SE (O)
Web
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CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)
Office of the Executive Director (C&RA)

NO. 03-09/ Bills-15/ 247

Raipur Dtd.

5-May-2020

To,

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

Sub: **Fuel Cost Adjustment calculation for the 6th Bi-Monthly period of FY 2019-20.**
Ref: 1) CSERC MYT Regulations 2015.
2) CSERC tariff order dtd. 31/03/2017
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. **93,288,728** /- for the 6th Bi-Monthly period of FY 2019-20 (Feb-19 & Mar-20). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Jun-20**

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 E.D. (O&M:Gen) CSPGCL, Raipur
- 3 The G.M. (Fin) 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/cspgcl) under the link Fuel Cost Adjustment-6th Bi Monthly of FY 2019-20 Feb-2020 to Mar-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 6th Bi-Monthly period of FY 2019-20.

All Figures in Rs.


Name of Plant	Feb-20	Mar-20	Total
KTPS	18960996	4,663,253	23,624,249
HTPS	1381009	-37,501,008	-36,119,999
DSPMTPS	-57216443	18,298,680	-38,917,763
KW Extn	0	-18,691,336	-18,691,336
MTTPS	91554986	71,838,591	163,393,577
Total	54,680,548	38,608,180	93,288,728

RUPEES NINE CRORES THIRTY TWO LAKHS EIGHTY EIGHT THOUSAND SEVEN HUNDRED TWENTY EIGHT 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
Jun-20	11,812,125	-18,060,000	-19,458,882	-9,345,668	81,696,789	46,644,364
Jul-20	11,812,124	-18,059,999	-19,458,881	-9,345,668	81,696,788	46,644,364
Total	23,624,249	-36,119,999	-38,917,763	-18,691,336	163,393,577	93,288,728


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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 Feb-20	For Month of Mar-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.101602600	0.102567050	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)		-0.0974557	-0.061792	
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.004146900	0.040775050	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000047689	0.000468913	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.004099211	0.040306137	
g	Amount charged by the Coal / Lignite Company	(Rs.)		170,205,252.67	171,820,904.78	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-162,901,928.75	-103,403,563.63	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		7,303,323.92	68,417,341.15	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1781.64	1697.44	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1781.64	1697.44	
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	1959.62	1875.42	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,331	3,406.00	
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 Auxiliary Consumption	%	11.25	11.25	11.25	
t	ECR for the Period= ((p-(qxr))/(0)*(n/1000))/(1-s)	Rs/ KWh		2.048	1.917	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.193	0.062	
w	Scheduled Generation during the Period	KWh		98,243,500	75,213,750	
aa	FCA Claim for the Period (vXw)	Rs		18,960,996	4,663,253	23,624,249

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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 Feb-20	For Month of Mar-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.397461	0.379039	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.397461	0.379039	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000794922	0.000758078	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.396666078	0.378280922	
g	Amount charged by the Coal / Lignite Company	(Rs.)		709024428.80	676161482.70	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-60992394.74	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		709024428.80	615169087.96	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1787.46	1626.22	
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	1787.46	1626.22	
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	1,868.21	1,706.97	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,758	3,683	
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		1.455	1.356	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.003	-0.096	
w	Scheduled Generation during the Period	KWh		460,336,250	390,635,500	
x	FCA Claim for the Period (vXw)	Rs		1381009	-37501008	-36,119,999


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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 Feb-20	For Month of Mar-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.195765	0.186691	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.195765	0.186691	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000391530	0.000373382	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.195373470	0.186317618	
g	Amount charged by the Coal / Lignite Company	(Rs.)		349,221,002.70	333,034,760.18	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-30041030.26	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		349221002.70	302993729.92	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1787.45	1626.22	
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	1787.45	1626.22	
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	1,868.20	1,706.97	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	0.00	3642.00	
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			1.172	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh			-0.071	
w	Scheduled Generation during the Period	KWh		0	263,258,250	
x	FCA Claim for the Period (vXw)	Rs		0	-18,691,336	-18,691,336


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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 Feb-20	For Month of Mar-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.19880517	0.22376846	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)		0.09745570	0.061792	
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.29626087	0.28556046	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000592522	0.000571121	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.295668348	0.284989339	
g	Amount charged by the Coal / Lignite Company	(Rs.)		360712024.33	428167464.04	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		84,347,803.65	74,357,440.98	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		445,059,827.98	502,524,905.02	
j	Rate of Coal for the period Charged by Coal Company = (i/(IX10^6))	Rs/MT		1505.27	1763.31	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1505.27	1763.31	
m	Transportation Cost Paid to railways	Rs		57371179.00	64248480.00	
n	Transportation Charge rate paid to Railways (m/(IX10^6))	Rs/MT		194.04	225.44	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			194.04	225.44	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	1699.31	1988.75	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3481.16	3432.28	
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-(txu))/(r)*(q/1000)/(1-v)	Rs/ KWh		1.338	1.589	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		-0.189	0.062	
z	Scheduled Generation during the Period	Kwh		302,732,500	295,140,000	
aa	FCA Claim for the Period (yX z)	Rs		-57,216,443	18,298,680	-38,917,763


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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 Feb-20	For Month of Mar-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.192439250	0.197391490	
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)		0.19243925	0.19739149	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001539514	0.001579132	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.190899736	0.195812358	
g	Amount charged by the Coal / Lignite Company	(Rs.)		369231173.06	385624187.61	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		4,109,398.31	-25,248,068.00	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		373340571.37	360376119.61	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1955.69	1840.42	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1955.69	1840.415055	
m	Transportation Cost Paid to railways	Rs		58934881.00	61408119.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		308.72	313.60	
o	Road Charges (per Ton) towards transportation	Rs/MT			42.05	
p	Total per ton Transportation Charges (n+o)			308.72	355.65	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,264.41	2,196.07	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,359	3,383.00	
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		1.688	1.626	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.315	0.253	
z	Scheduled Generation during the Period	Kwh		290,650,750	283,947,000	
aaa	FCA Claim for the Period (yX z)	Rs		91,554,986	71,838,591	163,393,577


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Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Marwa Thermal Power Plant - MTPP - SECL

	Month	Unit	Considered in Tariff order	For Month of Feb-20	For Month of Mar-20	0
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.192439250	0.18604515	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.19243925	0.18604515	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001539514	0.001488361	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.190899736	0.184556789	
g	Amount charged by the Coal / Lignite Company	(Rs.)		369231173.06	366595194.50	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		4,109,398.31	-25,248,068.00	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		373340571.37	341347126.50	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$	Rs/MT		1955.69	1849.55	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1955.69	1849.55	
m	Transportation Cost Paid to railways	Rs		58934881.00	58564094.00	
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		308.72	317.32	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			308.72	317.32	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,264.41	2,166.87	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29			
s	Normative SHR	Kcal/ KWh	2,378			
t	Normative Specific Oil Consumption	ml/ KWh	0.50			
u	GCV of Secondary Fuel (Oil)	Kcal/ml	10			
v	Normative Auxiliary Consumption	%	5.25			
w	ECR for the Period= $((s-(tu))/(r)*(q/1000))/(1-v)$	Rs/ KWh				
x	ECR as considered in Tariff order	Rs/ KWh	1.373			
y	Change in ECR (w-x)	Rs/ KWh				
z	Scheduled Generation during the Period	Kwh				
aa	FCA Claim for the Period (yX z)	Rs				0


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

	Month	Unit	Considered in Tariff order	For Month of Feb-20	For Month of Mar-20	0
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-		0.01134634	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.00000000	0.01134634	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		-	0.000090771	
f	Net coal / Lignite Supplied (c-e)	(MMT)		-	0.011255569	
g	Amount charged by the Coal / Lignite Company	(Rs.)			19028993.11	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs.)		0.00	19028993.11	
j	Rate of Coal for the period Charged by Coal Company $= (i / (f \times 10^6))$	Rs/MT		#DIV/0!	1690.63	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		#DIV/0!	1690.63	
m	Transportation Cost Paid to railways	Rs			2844025.00	
n	Transportation Charge rate paid to Railways $(m / (f \times 10^6))$	Rs/MT		#DIV/0!	252.68	
o	Other Charges (per Ton) towards transportation	Rs/MT			731.60	
p	Total per ton Transportation Charges (n+o)			#DIV/0!	984.28	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	#DIV/0!	2,674.91	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29			
s	Normative SHR	Kcal/ KWh	2,378			
t	Normative Specific Oil Consumption	ml/ KWh	0.50			
u	GCV of Secondary Fuel (Oil)	Kcal/ml	10			
v	Normative Auxiliary Consumption	%	5.25			
w	ECR for the Period= $((s - (t \times u)) / (r) * (q / 1000)) / (1 - v)$	Rs/ KWh				
x	ECR as considered in Tariff order	Rs/ KWh	1.373			
y	Change in ECR (w-x)	Rs/ KWh				
z	Scheduled Generation during the Period	Kwh				
aa	FCA Claim for the Period (yX z)	Rs				0

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.
Railway freight charges are taken on actual basis.
Road transport charge is as per work order allotted by "Gare palma III Collieries limited".


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