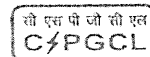


O/o E.D. (EITC)
CSPDCL Raipur
Receipt No. 2881
Date 02 MAR 2021
AGM (IT)
SE (O)/SE web
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Section



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

NO. 03-09/ Bills-15/ 163

Raipur Dtd.

27-Feb-2021

To,

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

Sub: Fuel Cost Adjustment calculation for the 5th 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. **272,048,231** /- for the 5th Bi-Monthly period of FY 2020-21 (Dec-20 & Jan-21). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Apr-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.

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 C.E. (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-5th Bi Monthly of FY 2020-21 (Dec-2020 & Jan 2021)
- 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 5th Bi-Monthly period of FY 2020-21.

All Figures in Rs.

Name of Plant	Dec-20	Jan-21	Total
KTPS	35383308		35,383,308
HTPS	15692526	-5,001,749	10,690,777
DSPM TPS	45710271	31,552,234	77,262,505
KW Extn	9092385	-3,831,953	5,260,432
MTTPS	95347978	48,103,231	143,451,209
Total	201,226,468	70,821,763	272,048,231

RUPEES TWENTY SEVEN CRORES TWENTY LAKHS FORTY EIGHT THOUSAND TWO HUNDRED THIRTY ONE 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
Apr-21	17,691,654	5,345,389	38,631,253	2,630,216	71,725,605	136,024,117
May-21	17,691,654	5,345,388	38,631,252	2,630,216	71,725,604	136,024,114
Total	35,383,308	10,690,777	77,262,505	5,260,432	143,451,209	272,048,231


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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 Dec-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.040137050	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.040137050	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000461576	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.039675474	
g	Amount charged by the Coal / Lignite Company	(Rs.)		67,737,135.15	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		4,350,831.97	
i	Coal Sampling Fees	(Rs.)			
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		72,087,967.12	
k	Rate of Coal for the period Charged by Coal Company = $(j/(f*10^6))$	Rs/MT		1816.94	
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1816.94	
n	Transportation Charge per Ton	Rs/MT	177.98	177.98	
o	Landed Price of Coal per MT (m+n)	Rs./MT	1,641.03	1994.92	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	2,894	
q	Normative SHR	Kcal/ KWh	3,110	3,110	
r	Normative Specific Oil Consumption	ml/ KWh	2.00	2.00	
s	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	
t	Normative Auxiliary Consumption	%	11.25	11.25	
u	ECR for the Period= $((q-(rs))/(o)*(o/1000))/(1-t)$	Rs/ KWh		2.400	
v	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	
w	Change in ECR (u-v)	Rs/ KWh		0.545	
aa	Scheduled Generation during the Period	KWh		64,923,500	
ab	FCA Claim for the Period (u*aa)	Rs		35,383,308	35,383,308


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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 Dec-20	For Month of Jan-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.414112	0.379315	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.414112	0.379315	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000828224	0.000758630	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.413284	0.378556370	
g	Amount charged by the Coal / Lignite Company	(Rs.)		743879625.74	681372737.96	
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.)		743879625.74	681372737.96	
k	Rate of Coal for the period Charged by Coal Company =((j/(f*10^6))	Rs/MT		1799.92	1799.92	
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	1799.92	1799.92	
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	1,880.67	1,880.67	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,699	3,826	
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		1.488	1.438	
v	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
w	Change in ECR (u-v)	Rs/ KWh		0.036	-0.014	
aa	Scheduled Generation during the Period	KWh		435,903,500	357,267,750	
ab	FCA Claim for the Period (wXaa)	Rs		15,692,526	-5,001,749	10,690,777


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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 Dec-20	For Month of Jan-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.203966	0.18682700	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.203966	0.186827	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000407932	0.000373654	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.203558	0.186453346	
g	Amount charged by the Coal / Lignite Company	(Rs.)		366,388,472.34	335,601,497.66	
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.)		366388472.34	335601497.66	
k	Rate of Coal for the period Charged by Coal Company = $(j/(f*10^6))$	Rs/MT		1799.92	1799.92	
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	1799.92	1799.92	
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	1,880.67	1,880.67	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3704.00	3822.00	
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= $((q-(rxs))/(p)*(o/1000)/(1-t))$	Rs/ KWh		1.270	1.231	
v	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
w	Change in ECR (u-v)	Rs/ KWh		0.027	-0.012	
aa	Scheduled Generation during the Period	KWh		336,755,010	319,329,380	
ab	FCA Claim for the Period (wXaa)	Rs		9,092,385	-3,831,953	5,260,432


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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 Dec-20	For Month of Jan-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.22079600	0.09630868	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.22079600	0.09630868	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000441592	0.000192617	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.220354408	0.096116063	
g	Amount charged by the Coal / Lignite Company	(Rs.)		403185341.56	177680494.10	
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.)		403,185,341.56	177,680,494.10	
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10^6))	Rs/MT		1829.71	1848.60	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal company (k+l)	Rs/MT		1829.71	1848.6	
n	Transportation Cost Paid to railways	Rs		77624016	25377919.00	
o	Transportation Charge rate paid to Railways (n/(fX10^6))	Rs/MT		352.27	264.03	
p	Other Charges (per Ton) towards transportation	Rs/MT				
q	Total per ton Transportation Charges (o+p)			352.27	264.03	
r	Landed Price of Coal per MT ((l+q)	Rs./MT	1,921.22	2181.98	2112.63	
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3286.53	3322.22	
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		1.820	1.744	
y	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
z	Change in ECR (x-y)	Rs/ KWh		0.293	0.217	
aa	Scheduled Generation during the Period	Kwh		156,007,750	145,402,000	
ab	FCA Claim for the Period (zX aa)	Rs		45,710,271	31,552,234	77,262,505


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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 Dec-20	For Month of Jan-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.391681960	0.342673400	
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)		0.39168196	0.34267340	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.003133456	0.002741387	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.388548504	0.339932013	
g	Amount charged by the Coal / Lignite Company	(Rs.)		549267208.053	535633722.064	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.000	-10944128.740	
i	Coal Sampling Fes	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		549267208.05	524689593.32	
k	Rate of Coal for the period Charged by Coal Company =j/(fX10 ⁶)	Rs/MT		1413.64	1543.51	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1413.64	1543.51	
n	Transportation Cost Paid to railways	Rs		115665900.00	91342445.00	
o	Transportation Charge rate paid to Railways (n/(fX10 ⁶))	Rs/MT		297.69	268.71	
p	Road Charges (per Ton) towards transportation	Rs/MT		433.68	251.88	
q	Total per ton Transportation Charges (o+p)			731.37	520.59	
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,145.01	2,064.10	
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,402	3,481	
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= (((t-(uxv))/(s)*(r/1000))/(1-w)	Rs/ KWh		1.579	1.485	
y	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
z	Change in ECR (x-y)	Rs/ KWh		0.206	0.112	
aa	Scheduled Generation during the Period	Kwh		462,854,260	429,493,130	
ab	Net FCA payable			95,347,978	48,103,231	143,451,209


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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 Dec-20	For Month of Jan-21
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.152981310	0.221386710
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-		
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.15298131	0.22138671
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001223850	0.001771094
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.151757460	0.219615616
g	Amount charged by the Coal / Lignite Company	(Rs.)		276151655.91	432451496.28
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-10,944,128.74
i	Coal Sampling Fes	(Rs.)			
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		276151655.91	421507367.54
k	Rate of Coal for the period Charged by Coal Company = $(j/(f \times 10^6))$	Rs/MT		1819.69	1919.30
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1819.69	1919.3
n	Transportation Cost Paid to railways	Rs		56555880.00	60974645.00
o	Transportation Charge rate paid to Railways $(n/(f \times 10^6))$	Rs/MT		372.67	277.64
p	Road Charges (per Ton) towards transportation	Rs/MT			
q	Total per ton Transportation Charges (o+p)			372.67	277.64
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,192.36	2,196.94
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 Dec-20	For Month of Jan-21
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.238700650	0.12128669
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.23870065	0.12128669
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001909605	0.000970294
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.236791045	0.120316396
g	Amount charged by the Coal / Lignite Company	(Rs.)		273115552.143	103182225.784
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.)		273115552.14	103182225.78
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10^6))	Rs/MT		1153.40	857.59
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1153.4	857.59
n	Transportation Cost Paid to railways	Rs		59110020.00	30367800.00
o	Transportation Charge rate paid to Railways (n/(fX10^6))	Rs/MT		249.63	252.40
p	Road Charges (per Ton) towards transportation	Rs/MT		711.63	711.63
q	Total per ton Transportation Charges (o+p)			961.26	964.03
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,114.66	1,821.62
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 Auxilliary Consumption	%	5.25		
x	ECR for the Period = $\frac{((t-(uxv))/(s)) * (r/1000)}{(1-w)}$	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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