

O/o E.D. (EITC)
CSPDCL Raipur
Receipt No. 2116
Date 13 MAY 2021
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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/ 276

Raipur Dtd.

12-May-2021

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 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. **12,653,502** /- for the 6th Bi-Monthly period of FY 2020-21 (Feb-21 & Mar-21). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Jun-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 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 2020-21 (Feb-2021 & Mar-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 6th Bi-Monthly period of FY 2020-21.

All Figures in Rs.

Name of Plant	Feb-21	Mar-21	Total
HTPS	-38456291	47,041,647	8,585,356
DSPM TPS	15777744	-129,042,690	-113,264,946
KW Extn	-32327147	38,359,441	6,032,294
MTTPS	44216280	67,084,518	111,300,798
Total	-10,789,414	23,442,916	12,653,502

RUPEES ONE CRORES TWENTY SIX LAKHS FIFTY THREE THOUSAND FIVE HUNDRED TWO ONLY

As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

All Figures in Rs.

Month	HTPS	DSPM TPS	KW Extn	MTTPS	Total
Jun-21	4,292,678	-56,632,473	3,016,147	55,650,399	6,326,751
Jul-21	4,292,678	-56,632,473	3,016,147	55,650,399	6,326,751
Total	8,585,356	-113,264,946	6,032,294	111,300,798	12,653,502


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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-21	For Month of Mar-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.38229329	0.30602250	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.382293	0.306023	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000764586	0.000612046	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.381528	0.305410954	
g	Amount charged by the Coal / Lignite Company	(Rs.)		686722459.00	549715438.84	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-42672833.15		
i	Coal Sampling fees	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs)		644049625.85	549715438.84	
k	Rate of Coal for the period Charged by Coal Company = (j/(f*10^6))	Rs/MT		1688.08	1799.92	
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	1688.08	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	1,768.83	1,880.67	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,878	3,436	
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-rxs)/(p)*(o/1000)/(1-t)	Rs/ KWh		1.335	1.601	
v	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
w	Change in ECR (u-v)	Rs/ KWh		-0.117	0.149	
aa	Scheduled Generation during the Period	KWh		328,686,250	315,715,750	
ab	FCA Claim for the Period (wXaa)	Rs		-38,456,291	47,041,647	8,585,356


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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-21	For Month of Mar-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.18829371	0.15072750	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.188294	0.150728	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000376588	0.000301456	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.187917	0.150426544	
g	Amount charged by the Coal / Lignite Company	(Rs.)		338,236,435.00	270,755,365.53	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-21017962.35		
i	Coal Sampling fees					
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		317218472.65	270755365.53	
k	Rate of Coal for the period Charged by Coal Company = $(j/(f*10^6))$	Rs/MT		1688.08	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	1688.08	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	1,768.83	1,880.67	
p	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3878.00	3446.00	
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		1.141	1.365	
v	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
w	Change in ECR (u-v)	Rs/ KWh		-0.102	0.122	
aa	Scheduled Generation during the Period	KWh		316,932,810	314,421,650	
ab	FCA Claim for the Period (wXaa)	Rs		-32,327,147	38,359,441	6,032,294

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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-21	For Month of Mar-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.19945301	0.12262002	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.19945301	0.12262002	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000398906	0.000245240	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.199054104	0.122374780	
g	Amount charged by the Coal / Lignite Company	(Rs.)		364225174.36	223852677.61	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		20,769,643.89	-73,791,307.58	
i	Coal Sampling fees	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		384,994,818.25	150,061,370.03	
k	Rate of Coal for the period Charged by Coal Company =j/(fX10 ⁶)	Rs/MT		1934.12	1226.24	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal company (k+l)	Rs/MT		1934.12	1226.24	
n	Transportation Cost Paid to railways	Rs		51302735	33270168.00	
o	Transportation Charge rate paid to Railways (n/(fX10 ⁶))	Rs/MT		257.73	271.87	
p	Other Charges (per Ton) towards transportation	Rs/MT				
q	Total per ton Transportation Charges (o+p)			257.73	271.87	
r	Landed Price of Coal per MT ((l+q)	Rs./MT	1,921.22	2191.85	1498.11	
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3752.98	3826.73	
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		1.601	1.073	
y	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
z	Change in ECR (x-y)	Rs/ KWh		0.074	-0.454	
aa	Scheduled Generation during the Period	Kwh		213,212,750	284,235,000	
ab	FCA Claim for the Period (zX aa)	Rs		15,777,744	-129,042,690	-113,264,946


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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 (consolidated => SECL + GP III)

	Month	Unit	Considered in Tariff order	For Month of Feb-21	For Month of Mar-21	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.250097180	0.403248040	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-	0.000000000	0.000000000	
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.25009718	0.40324804	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002000777	0.003225984	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.248096403	0.400022056	
g	Amount charged by the Coal / Lignite Company	(Rs.)		365752557.870	615777126.460	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.000	5164063.580	
i	Coal Sampling Fes	(Rs.)				
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		365752557.87	620941190.04	
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10 ⁶))	Rs/MT		1474.24	1552.27	
l	Rate of Bonus payable to Coal Company	Rs/MT				
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1474.24	1552.27	
n	Transportation Cost Paid to railways	Rs		76518933.00	107955043.82	
o	Transportation Charge rate paid to Railways (n/(fX10 ⁶))	Rs/MT		308.42	269.87	
p	Road Charges (per Ton) towards transportation	Rs/MT		356.68	392.15	
q	Total per ton Transportation Charges (o+p)			665.10	662.02	
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,139.34	2,214.29	
s	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,533	3,658	
t	Normative SHR	Kcal/ KWh	2,378	2,378	2,378	
u	Normative Specific Oil Consumption	litre/ 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		1.517	1.516	
y	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
z	Change in ECR (x-y)	Rs/ KWh		0.144	0.143	
aa	Scheduled Generation during the Period	Kwh		307,057,500	469,122,500	
ab	Net FCA payable			44,216,280	67,084,518	111,300,798


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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 Feb-21	For Month of Mar-21
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.138101060	0.204714740
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.13810106	0.20471474
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001104808	0.001637718
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.136996252	0.203077022
g	Amount charged by the Coal / Lignite Company	(Rs.)		247680951.20	407474184.49
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			5,164,063.58
i	Coal Sampling Fes	(Rs.)			
j	Net amount Charged by Coal Company (g+h+i)	(Rs.)		247680951.20	412638248.07
k	Rate of Coal for the period Charged by Coal Company =j/(fX10 ⁶)	Rs/MT		1807.94	2031.93
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1807.94	2031.93
n	Transportation Cost Paid to railways	Rs		48484053.00	57070462.00
o	Transportation Charge rate paid to Railways (n/(fX10 ⁶))	Rs/MT		353.91	281.03
p	Road Charges (per Ton) towards transportation	Rs/MT			
q	Total per ton Transportation Charges (o+p)			353.91	281.03
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,161.85	2,312.96
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 Feb-21	For Month of Mar-21
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.111996120	0.19853330
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.11199612	0.19853330
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000895969	0.001588266
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.111100151	0.196945034
g	Amount charged by the Coal / Lignite Company	(Rs.)		118071606.67	208302941.97
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.)		118071606.67	208302941.97
k	Rate of Coal for the period Charged by Coal Company = (j/(fX10^6))	Rs/MT		1062.75	1057.67
l	Rate of Bonus payable to Coal Company	Rs/MT			
m	Net Rate of coal payable to coal compnay (k+l)	Rs/MT		1062.75	1057.67
n	Transportation Cost Paid to railways	Rs		28034880.00	50884561.82
o	Transportation Charge rate paid to Railways (n/(fX10^6))	Rs/MT		252.34	258.37
p	Road Charges (per Ton) towards transportation	Rs/MT		796.50	796.50
q	Total per ton Transportation Charges (o+p)			1048.84	1054.87
r	Landed Price of Coal per MT ((m+q)	Rs./MT	1,535	2,111.59	2,112.54
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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