

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

NO. 03-09/ Bills-15/ 460

Raipur Dtd.

29-Jul-2022

To,

The Executive Director (RA&PM)
4th Floor Vidyut Seva Bhawan
CSPDCL, Raipur

Sub: Fuel Cost Adjustment calculation for the 1st Bi-Monthly period of FY 2022-23.

Ref: 1) CSERC MYT Regulations 2021.
2) CSERC tariff order dtd. 13/04/2022 read with detailed order dtd 28/04/2022

In compliance to the CSERC order referred above, please find enclosed FCA Calculation amounting to Rs. **-35,53,77,142** /- for the 1st Bi-Monthly period of FY 2022-23 (April-22 & May-22). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Sep-21**

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 E.D. (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-1st Bi Monthly of FY 2022-23 (April-2022 & May-2022)
- 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 1st Bi-Monthly period of FY 2022-23.

All Figures in Rs.


Name of Plant	Apr-22	May-22	Total
HTPS	-2,08,69,638	-5,21,38,698	-7,30,08,336
DSPM TPS	-7,66,31,586	-3,53,42,688	-11,19,74,274
KW Extn	-1,46,52,762	-3,89,13,436	-5,35,66,198
ABVTPS	-12,36,19,158	67,90,824	-11,68,28,334
Total	-23,57,73,144	-11,96,03,998	-35,53,77,142

(-) RUPEES THIRTY FIVE CRORES FIFTY THREE LAKHS SEVENTY SEVEN THOUSAND ONE HUNDRED FORTY TWO ONLY

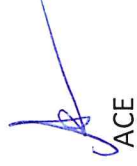
As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

All Figures in Rs.

Month	HTPS	DSPM TPS	KW Extn	ABVTPS	Total
Sep-21	-3,65,04,168	-5,59,87,137	-2,67,83,099	-5,84,14,167	-17,76,88,571
Oct-21	-3,65,04,168	-5,59,87,137	-2,67,83,099	-5,84,14,167	-17,76,88,571
Total	-7,30,08,336	-11,19,74,274	-5,35,66,198	-11,68,28,334	-35,53,77,142


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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 April-22	For Month of May-22
a	Quantity of Coal supplied by Coal/Lignite Company	(MMT)		0.36891400	0.36750000
b	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)			
c	Coal supplied by Coal Company (a+b)	(MMT)		0.368914	0.367500
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000737828	0.000735000
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.368176	0.366765
g	Amount charged by the Coal / Lignite Company	(Rs.)		666562521.60	664007673.08
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
i	Net amount charged for Coal (g+h)	(Rs.)		666562521.60	664007673.08
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1810.45	1810.44
k	Rate of Bonus payable to Coal Company	Rs/MT			
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT	1,810.44	1810.45	1810.44
m	Transportation Charge including Coal sampling charges	Rs/MT	87.24	87.24	87.24
n	Landed Price of Coal per MT (l+m)	Rs./MT	1,897.68	1,897.69	1,897.69
o	Average GCV of coal as received	(kCal/Kg)	3,656.40	3,787.00	4,063.00
p	Normative SHR	Kcal/ KWh	2,650.00	2,650.00	2,650.00
q	Normative Specific Oil Consumption	ml/ KWh	0.80	0.80	0.80
r	GCV of Secondary Fuel (Oil)	Kcal/ml	10.00	10.00	10.00
s	Normative Auxiliary Consumption	%	9.70%	9.70	9.70
t	ECR for the Period= $((p-(qxr))/(o)*(n/1000))/(1-s)$	Rs/ KWh		1.466	1.367
u	ECR as considered in Tariff order	Rs/ KWh	1.519	1.519	1.519
v	Change in ECR (t-u)	Rs/ KWh		-0.053	-0.152
w	Scheduled Generation during the Period	KWh		393766750	343017750
x	FCA Claim for the Period (vXw)	Rs		-2,08,69,638	-5,21,38,698


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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 Korba West Thermal Power Station (KWTPP)

	Description	Unit	Considered in Tariff order	For Month of April-22	For Month of May-22
a	Quantity of Coal supplied by Coal/Lignite Company	(MMT)		0.18170400	0.18100700
b	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)			
c	Coal supplied by Coal Company (a+b)	(MMT)		0.181704	0.181007
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000363408	0.000362014
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.181341	0.180645
g	Amount charged by the Coal / Lignite Company	(Rs.)		328307075.42	327047719.35
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
i	Net amount charged for Coal (g+h)	(Rs.)		328307075.42	327047719.35
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1810.44	1810.44
k	Rate of Bonus payable to Coal Company	Rs/MT			
l	Net Rate of coal payable to coal company (j+k)	Rs/MT	1,810.44	1810.44	1810.44
m	Transportation Charge including Coal sampling charges	Rs/MT	87.24	87.24	87.24
n	Landed Price of Coal per MT (l+m)	Rs./MT	1,897.68	1,897.68	1,897.68
o	Average GCV of coal as received	(kCal/Kg)	3,656.40	3,787.00	4,063.00
p	Normative SHR	Kcal/ KWh	2,390.00	2,390.00	2,390.00
q	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50
r	GCV of Secondary Fuel (Oil)	Kcal/ml	10.00	10.00	10.00
s	Normative Auxiliary Consumption	%	5.25%	5.25	5.25
t	ECR for the Period= $((p-(qxr))/(o)*(n/1000)/(1-s))$	Rs/ KWh		1.261	1.176
u	ECR as considered in Tariff order	Rs/ KWh	1.306	1.306	1.306
v	Change in ECR (t-u)	Rs/ KWh		-0.045	-0.130
w	Scheduled Generation during the Period	KWh		325616937.5	299334125
x	FCA Claim for the Period (vXw)	Rs		-1,46,52,762	-3,89,13,436


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Details/Information for computation of Energy Charge Rates for FCA

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 April-22	For Month of May-22
a	Quantity of Coal supplied by Coal Company	(MMT)		0.09066120	0.24043472
b	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)			
c	Coal supplied by Coal Company (a+b)	(MMT)		0.09066120	0.24043472
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000181322	0.000480869
f	Net coal Supplied (c-e)	(MMT)		0.090479878	0.239953851
g	Amount charged by the Coal Company	(Rs.)		15,48,09,029.66	42,86,73,678.84
h	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)			
i	Net amount Charged for Coal (g+h)	(Rs.)		15,48,09,029.66	42,86,73,678.84
j	Rate of Coal for the period $= (i/(f \times 10^6))$	Rs/MT	1,827.86	1710.98	1786.48
k	Rate of Bonus payable to Coal Company	Rs/MT			
l	Net Rate of coal payable (j+k)	Rs/MT		1710.98	1786.48
m	Transportation Cost Paid to railways	Rs		23,10,557.00	4,49,33,112.00
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT	192.59	25.54	187.26
o	Other Charges including Coal sampling charges (per Ton) towards transportation	Rs/MT	11.44	11.44	11.44
p	Total per ton Transportation Charges (n+o)	Rs./MT	204.03	36.98	198.70
q	Landed Price of Coal per MT ((l+p)	Rs./MT	2,031.89	1747.96	1985.18
r	Average GCV of coal / Lignite as recieved	(kCal/Kg)	3,269.32	3,286.28	3,455.00
s	Normative SHR	Kcal/ KWh	2,430	2,430	2,430
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 $= ((s-(t \times u))/(r) * (q/1000))/(1-v)$	Rs/ KWh	1.509	1.417	1.531
x	ECR as considered in Tariff order	Rs/ KWh	1.656	1.656	1.656
y	Change in ECR (w-x)	Rs/ KWh		-0.239	-0.125
z	Scheduled Generation during the Period	Kwh		320634250	282741500
aa	FCA Claim for the Period (yX z)	Rs		-7,66,31,586	-3,53,42,688


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Details/Information for computation of Energy Charge Rates for FCA

Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Marwa Thermal Power Plant - **ABVTPS (consolidated => Gharghoda + Robertson)**

	Month	Unit	Considered in Tariff order	For Month of April-22	For Month of May-22
a	Quantity of Coal Transported by railway from Robertson siding	(MMT)	-	0.08000475	0.05997027
b	Quantity of Coal Transported by railway from Gharghoda siding	(MMT)	-	0.20046085	0.25202447
c	Total Coal transferred through rail (a+b)	(MMT)		0.28046560	0.31199474
d	Per ton Transportation charges from Robertson siding	Rs/MT		1081.78	1086.37
e	Per ton Transportation charges from Gharghoda siding	Rs/MT		997.42	1014.9
f	Weighted average transportation rate of Coal $\{(aXd+bXe)/c\}$	Rs/MT		1021.48	1028.64
g	Input Price of Coal at Mine End as per T.O.	Rs/MT	1,510.90	1,510.90	1,510.90
h	Other charges including Coal sampling Fee	Rs/MT	16.69	16.69	16.69
i	Normative Transit Loss	%	0.80%	0.80%	0.80%
j	Net landed Cost of Coal $\{(f+g+h)/((1-i))\}$	Rs/MT	2,602.86	2,569.63	2,576.84
k	GCV of coal as received	(kCal/Kg)	3,628.91	4116.00	3561.00
l	Normative SHR	Kcal/Kwh	2,390.00	2,390.00	2,390.00
m	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50
n	GCV of Secondary Fuel (Oil)	Kcal/ml	10.00	10.00	10.00
o	Normative Auxiliary Consumption	%	5.25%	5.25	5.25
p	Coal ECR for the Period= $\{(l-mXn)/kX(j/1000)/(1-o)\}$	Rs/ KWh	1.712	1.571	1.821
q	Coal ECR as considered in Tariff order	Rs/ KWh	1.805	1.805	1.805
r	Change in ECR (p-q)	Rs/ KWh		-0.234	0.016
s	Scheduled Generation during the Period	Kwh		52,82,87,000	42,44,26,500
t	FCA Claim for the Period (rXs)	Rs		-12,36,19,158	67,90,824


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