

O/o E.D. (EITC)
CSPDCL Raipur
Receipt No. 2728
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CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)
Office of the Chief Engineer (C&RA)

NO. 03-09/ Bills-15/ 603
6/10/22
To,

Raipur Dtd.

30-Sep-2022

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

Sub: Fuel Cost Adjustment calculation for the 2nd 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. **-3,35,20,144** /- for the 2nd Bi-Monthly period of
FY 2022-23 (June-22 & July-22). As per CSERC order the above FCA amount shall
be claimed in two installments w.e.f. **Nov-22**

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 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-2nd Bi Monthly of FY 2022-23 (June-2022 & July-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 2nd Bi-Monthly period of FY 2022-23.

All Figures in Rs.

Name of Plant	Jun-22	Jul-22	Total
HTPS	-4,95,84,500	-4,76,17,119	-9,72,01,619
DSPM TPS	3,91,98,783	-1,66,83,404	2,25,15,379
KW Extn	-3,26,37,943	-2,94,71,391	-6,21,09,334
ABVTPS	3,55,99,429	6,76,76,001	10,32,75,430
Total	-74,24,231	-2,60,95,913	-3,35,20,144

(-) 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
Nov-22	-4,86,00,810	1,12,57,690	-3,10,54,667	5,16,37,715	-1,67,60,072
Dec-22	-4,86,00,809	1,12,57,689	-3,10,54,667	5,16,37,715	-1,67,60,072
Total	-9,72,01,619	2,25,15,379	-6,21,09,334	10,32,75,430	-3,35,20,144


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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 June-22	For Month of July-22
a	Quantity of Coal supplied by Coal/Lignite Company	(MMT)		0.38067000	0.40590900
b	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)			
c	Coal supplied by Coal Company (a+b)	(MMT)		0.380670	0.405909
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000761340	0.000811818
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.379909	0.405097
g	Amount charged by the Coal / Lignite Company	(Rs.)		687803539.84	733405960.66
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
i	Net amount charged for Coal (g+h)	(Rs.)		687803539.84	733405960.66
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1810.44	1810.45
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	1810.44	1810.45
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	3,980.00	3,917.00
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		1.395	1.417
u	ECR as considered in Tariff order	Rs/ KWh	1.519	1.519	1.519
v	Change in ECR (t-u)	Rs/ KWh		-0.124	-0.102
w	Scheduled Generation during the Period	KWh		399875000	466834500
x	FCA Claim for the Period (vXw)	Rs		-4,95,84,500	-4,76,17,119


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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 June-22	For Month of July-22
a	Quantity of Coal supplied by Coal/Lignite Company	(MMT)		0.18749400	0.19992600
b	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)			
c	Coal supplied by Coal Company (a+b)	(MMT)		0.187494	0.199926
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000374988	0.000399852
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.187119	0.199526
g	Amount charged by the Coal / Lignite Company	(Rs.)		338768584.07	361231015.04
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			
i	Net amount charged for Coal (g+h)	(Rs.)		338768584.07	361231015.04
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1810.44	1810.45
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	1810.45
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	3,980.00	3,917.00
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		1.200	1.219
u	ECR as considered in Tariff order	Rs/ KWh	1.306	1.306	1.306
v	Change in ECR (t-u)	Rs/ KWh		-0.106	-0.087
w	Scheduled Generation during the Period	KWh		307905125.0	338751625
x	FCA Claim for the Period (vXw)	Rs		-3,26,37,943	-2,94,71,391


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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 June-22	For Month of July-22
a	Quantity of Coal supplied by Coal Company	(MMT)		0.26821187	0.19463470
b	Adjustment (+/-) in quantity supplied made by Coal Company	(MMT)			
c	Coal supplied by Coal Company (a+b)	(MMT)		0.26821187	0.19463470
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000536424	0.000389269
f	Net coal Supplied (c-e)	(MMT)		0.267675446	0.194245431
g	Amount charged by the Coal Company	(Rs.)		47,48,19,848.99	34,24,74,985.40
h	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)		6,88,07,000.50	
i	Net amount Charged for Coal (g+h)	(Rs.)		54,36,26,849.49	34,24,74,985.40
j	Rate of Coal for the period $= (i / (f \times 10^6))$	Rs/MT	1,827.86	2030.92	1763.10
k	Rate of Bonus payable to Coal Company	Rs/MT			
l	Net Rate of coal payable (j+k)	Rs/MT		2030.92	1763.10
m	Transportation Cost Paid to railways	Rs		5,09,75,704.00	2,79,40,544.00
n	Transportation Charge rate paid to Railways $(m / (f \times 10^6))$	Rs/MT	192.59	190.44	143.84
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	201.88	155.28
q	Landed Price of Coal per MT ((l+p)	Rs./MT	2,031.89	2232.80	1918.38
r	Average GCV of coal / Lignite as recieved	(kCal/Kg)	3,269.32	3,319.00	3,213.93
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	1.793	1.591
x	ECR as considered in Tariff order	Rs/ KWh	1.656	1.656	1.656
y	Change in ECR (w-x)	Rs/ KWh		0.137	-0.065
z	Scheduled Generation during the Period	Kwh		286122500	256667750
aa	FCA Claim for the Period (yX z)	Rs		3,91,98,783	-1,66,83,404


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Details/Information for computation of Energy Charge Rates for FCA

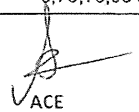
Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Month	Unit	Considered in Tariff order	For Month of June-22	For Month of July-22
a	Quantity of Coal Transported by railway from Robertson siding	(MMT)	-	0.08063525	0.12203771
b	Quantity of Coal Transported by railway from Gharghoda siding	(MMT)	-	0.23190046	0.17224401
c	Total Coal transferred through rail (a+b)	(MMT)		0.31253571	0.29428172
d	Per ton Transportation charges from Robertson siding	Rs/MT		1075.64	1075.99
e	Per ton Transportation charges from Gharghoda siding	Rs/MT		996.44	998.64
f	Weighted average transportation rate of Coal $\{(aXd+bXe)/c\}$	Rs/MT		1016.87	1030.72
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	2,564.98	2,578.94
k	GCV of coal as received	(kCal/Kg)	3,628.91	3349.00	3259.00
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	1.928	1.992
q	Coal ECR as considered in Tariff order	Rs/ KWh	1.805	1.805	1.805
r	Change in ECR (p-q)	Rs/ KWh		0.123	0.187
s	Scheduled Generation during the Period	Kwh		28,94,26,250	36,19,03,750
t	FCA Claim for the Period (rXs)	Rs		3,55,99,429	6,76,76,001


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