

O/o CE (EITC)
Receipt No. 2784
Date 03 SEP 2019
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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/ 592

Raipur Dtd.

31-Aug-2019

To,

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

Sub: **Fuel Cost Adjustment calculation for the 2nd Bi-Monthly period of FY 2019-20.**

Ref: 1) CSERC MYT Regulations 2015.
2) CSERC tariff order dtd. 31/03/2017

In compliance to the CSERC wide order referred above, please find enclosed FCA Calculation amounting to Rs. **338,169,493** /- for the ~~2nd~~ Bi-Monthly period of FY 2019-20 (June-19 & July- 19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Oct-19**

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. (Fin) CSPGCL, Raipur
- 3 The C.E.(EITC)CSPDCL, Raipur. Kindly upload the same in Company web site (cspc.co.in/cspgc) under the link Fuel Cost Adjustment- 2nd Bi Monthly of FY 2019-20 (June-2019 to July-2019)
- 4 The S.O. to M.D. CSPGCL, Raipur
- 5 The S.O. to M.D. CSPDCL, Raipur
- 6 The Manager (B&CM) CSPGCL, Raipur

Fuel Cost Adjustment calculation for the 2nd Bi-Monthly period of FY 2019-20.

All Figures in Rs.


Name of Plant	Jun-19	Jul-19	Total
KTPS	10676956	9,130,095	19,807,051
HTPS	43311410	-12,556,379	30,755,031
DSPM TPS	42438039	19,300,875	61,738,914
KW Extn	35571218	-6,324,444	29,246,774
MTTPS	71931300	124,690,423	196,621,723
Total	203,928,923	134,240,570	338,169,493

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
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
Oct-19	9,903,526	15,377,516	30,869,457	14,623,387	98,310,862	169,084,748
Nov-19	9,903,525	15,377,515	30,869,457	14,623,387	98,310,861	169,084,745
Total	19,807,051	30,755,031	61,738,914	29,246,774	196,621,723	338,169,493


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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 June-19	For Month of July-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.075307600	0.099514500	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.075307600	0.099514500	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000866037	0.001144417	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.074441563	0.098370083	
g	Amount charged by the Coal / Lignite Company	(Rs.)		125,562,672.06	165,923,579.03	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-2,242,886.05	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		125,562,672.06	163,680,692.98	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1686.73	1663.93	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1686.73	1663.93	
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	1864.71	1841.91	
o	Average GCV of coal / Lignite as fired	(Kcal/Kg)	3,080.85	3,311.00	3,297.00	
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 Auxillary Consumption	%	11.25	11.25	11.25	
t	ECR for the Period= (((p-qxr)/(0)*(n/1000))/(1-s)	Rs/ KWh		1.961	1.945	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1,855	1,855	
v	Change in ECR (t-u)	Rs/ KWh		0.106	0.090	
w	Scheduled Generation during the Period	KWh		100,726,000	101,445,500	
aa	FCA Claim for the Period (vXw)	Rs		10,676,956	9,130,095	19,807,051


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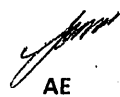
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Details/Information for Computation of Energy Charge Rates

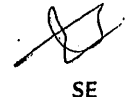
Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Korba (West) Thermal Power Station - HTPS

	Description	Unit	Considered in Tariff order	For Month of June-19	For Month of July-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.383642	0.381230	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.383642	0.381230	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000767284	0.000762460	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.382874716	0.380467540	
g	Amount charged by the Coal / Lignite Company	(Rs.)		681351337.99	677067606.10	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		15545485.22		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		696896823.21	677067606.10	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1820.17	1779.57	
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	1820.17	1779.57	
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	1,900.92	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,502	3,831	
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		1.588	1.421	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.136	-0.031	
w	Net Generation during the Period	KWh		318,466,250	405,044,480	
x	FCA Claim for the Period (vXw)	Rs		43311410	-12556379	30,755,031


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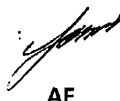
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Details/Information for Computation of Energy Charge Rates

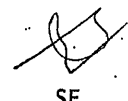
Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : - 1x500 MW KW Extn.

	Description	Unit	Considered in Tariff order	For Month of June-19	For Month of July-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.188958	0.187770	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.188958	0.187770	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000377916	0.000375540	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.188580084	0.187394460	
g	Amount charged by the Coal / Lignite Company	(Rs.)		335,590,957.35	333,481,059.76	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		7656731.6		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		343247688.95	333481059.76	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1820.17	1779.57	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT	1,609.77	1820.17	1779.57	
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	1,900.92	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,497	3,805	
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		1.360	1.223	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.117	-0.02	
w	Scheduled Generation during the Period	KWh		304,027,500	316,222,210	
x	FCA Claim for the Period (vxw)	Rs		35,571,218	-6,324,444	29,246,774


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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 June-19	For Month of July-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.17721933	0.20728456	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.17721933	0.20728456	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000354439	0.000414569	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.176864891	0.206869991	
g	Amount charged by the Coal / Lignite Company	(Rs.)		351240824.31	391846946.19	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.00	13,442,122.25	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		351,240,824.31	405,289,068.44	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1985.93	1959.15	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1985.93	1959.15	
m	Transportation Cost Paid to railways	Rs		46292915.07	51007150.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		261.74	246.57	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			261.74	246.57	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2247.67	2205.72	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3682.67	3809.73	
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 Auxilliary Consumption	%	9.00	9.00	9.00	
w	ECR for the Period = ((s-(txu))/(t)*(q/1000))/(1-v)	Rs/ KWh		1.673	1.587	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.146	0.060	
z	Scheduled Generation during the Period	Kwh		290,671,500	321,681,250	
aa	FCA Claim for the Period (yX z)	Rs		42438039	19300875	61,738,914


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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 June-19	For Month of July-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.20313101	0.28552143	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.20313101	0.28552143	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001625048	0.002284171	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.201505962	0.283237259	
g	Amount charged by the Coal / Lignite Company	(Rs.)		401025217.87	611949094.75	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-12,366,577.08	-22,129,408.88	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		388658640.79	589819685.87	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1928.77	2082.42	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1928.77	2082.42	
m	Transportation Cost Paid to railways	Rs		57274676.00	69405753.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		284.23	245.04	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			284.23	245.04	
q	Landed Price of Coal per MT ((l+p)	Rs/MT	1,535	2,213.00	2,327.46	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,580	3,593	
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		1.548	1.622	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.175	0.249	
z	Scheduled Generation during the Period	Kwh		411,036,000	500,764,750	
aa	FCA Claim for the Period (yX z)	Rs		71931300	124690422.8	196,621,723


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