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Receipt No. 2119
Date 03 JUL 2019
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C/PGCL

CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Executive Director (C&RA)

NO. 03-09/ Bills-15/ 435

Raipur Dtd.

29-Jun-2019

To,

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

Sub: Fuel Cost Adjustment calculation for the 1st 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 vide order referred above, please find enclosed FCA Calculation amounting to Rs. **370,522,398** /- for the 1st Bi-Monthly period of FY 2019-20 (April-19 & May- 19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Aug-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 E.D. (O&M:Gen) CSPGCL, Raipur
- ✓ 4 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 2019-20 (Apr-2019 to May-2019)
- 5 The S.O. to M.D. CSPGCL, Raipur
- 6 The S.O. to M.D. CSPDCL, Raipur
- 7 The Manager (B&CM) CSPGCL, Raipur

Shed No. 06, Vidyut Sewa Bhawan Complex, Dangania, Raipur 492013; CIN no. U40108CT2003SGC015821
Phone No. 0771-2574097; Fax : 0771-2574806; Email : ce.cncp@gmail.com; Web site: www.cseb.gov.in/cspgcl

Fuel Cost Adjustment calculation for the 1st Bi-Monthly period of FY 2019-20.

All Figures in Rs.

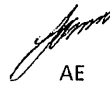
Name of Plant	Apr-19	May-19	Total
KTPS	2112406	9,756,378	11,868,784
HTPS	6286335	44,865,987	51,152,322
DSPM TPS	36072976	25,679,120	61,752,096
KW Extn	4952742	37,086,329	42,039,071
MTTPS	125456219	78,253,906	203,710,125
Total	174,880,678	195,641,720	370,522,398

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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
Aug-19	5,934,392	25,576,161	30,876,048	21,019,536	101,855,063	185,261,200
Sep-19	5,934,392	25,576,161	30,876,048	21,019,535	101,855,062	185,261,198
Total	11,868,784	51,152,322	61,752,096	42,039,071	203,710,125	370,522,398


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Details/Information for Computation of Energy Charge Rates

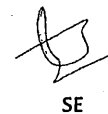
Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Korba (East) Thermal Power Station - KTPS

	Description	Unit	Considered in Tariff order	For Month of April-19	For Month of May-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.118962900	0.099829700	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.118962900	0.099829700	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001368073	0.001148042	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.117594827	0.098681658	
g	Amount charged by the Coal / Lignite Company	(Rs.)		198,350,493.25	166,449,121.70	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-6,030,996.85		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		192,319,496.40	166,449,121.70	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1635.44	1686.73	1658.84
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1635.440	1686.730	
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	1813.42	1864.71	1836.82
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,366	3,344	3,354
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 Auxiliary Consumption	%	11.25	11.25	11.25	
t	ECR for the Period = $((p-(qxr))/(0)*(n/1000))/(1-s)$	Rs/ KWh		1.876	1.941	1.907
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.021	0.086	
w	Scheduled Generation during the Period	KWh		100,590,750.00	113,446,250.00	
aa	FCA Claim for the Period (vXw)	Rs		2,112,406	9,756,378	11,868,784


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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-19	For Month of May-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.357110	0.351080	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.357110	0.351080	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000714220	0.000702160	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.356395780	0.350377840	
g	Amount charged by the Coal / Lignite Company	(Rs.)		634230288.32	623520958.92	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		2357990.72		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		636588279.04	623520958.92	
j	Rate of Coal for the period Charged by Coal Company $= (i / (f * 10^6))$	Rs/MT		1786.18	1779.57	1782.90
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	1786.18	1779.57	1782.90
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	1,866.93	1,860.32	1,863.65
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,711	3,435	3,562
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		1.472	1.585	1.531
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.020	0.133	
w	Net Generation during the Period	KWh		314,316,750.00	337,338,250.00	
x	FCA Claim for the Period (vXw)	Rs		6286335	44865987	51,152,322


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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 April-19	For Month of May-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.175890	0.172920	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.175890	0.172920	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000351780	0.000345840	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.175538220	0.172574160	
g	Amount charged by the Coal / Lignite Company	(Rs.)		312,382,082.34	307,107,337.98	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		1161398.44		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		313543480.78	307107337.98	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1786.18	1779.57	1782.90
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	1786.18	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	1,866.93	1,860.32	1863.65
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,713	3,435	3,567
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		1.258	1.355	1.307
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.015	0.112	
w	Scheduled Generation during the Period	KWh		330,182,810.00	331,127,940.00	
x	FCA Claim for the Period (vXw)	Rs		4,952,742	37,086,329	42,039,071


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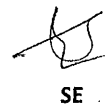
Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Dr. Shyama Prasad Mukharjee Thermal Power Station - DSPM TPS

	Description	Unit	Considered in Tariff order	For Month of April-19	For Month of May-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.18468986	0.15401213	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.18468986	0.15401213	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000369380	0.000308024	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.184320480	0.153704106	0.338024586
g	Amount charged by the Coal / Lignite Company	(Rs.)		332466042.15	290254034.58	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		620.965.08	-3,528,607.86	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		333,087,007.23	286,725,426.72	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1807.11	1865.44	1833.63
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1807.11	1865.44	
m	Transportation Cost Paid to railways	Rs		46392727.96	38763495.00	85156222.96
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		251.70	252.20	251.92
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			251.70	252.20	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2058.81	2117.64	2,085.55
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3430.41	3609.14	3518.77
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 Auxiliary Consumption	%	9.00	9.00	9.00	
w	ECR for the Period= ((s-(txu))/(r)*(q/1000))/(1-v)	Rs/ KWh		1.646	1.609	1.625
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.119	0.082	
z	Scheduled Generation during the Period	Kwh		303,134,250.00	313,160,000	
aa	FCA Claim for the Period (yX z)	Rs		36072975.75	25679120	61,752,096


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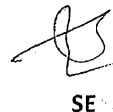
Name of the Company : Chhattisgarh State Power Generation Company Limited

Name of the Power Station : Marwa Thermal Power Plant - MTPP

	Month	Unit	Considered in Tariff order	For Month of April-19	For Month of May-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.27988813	0.20585928	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.27988813	0.20585928	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002239105	0.001646874	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.277649025	0.204212406	0.481861431
g	Amount charged by the Coal / Lignite Company	(Rs.)		590263967.29	431141073.43	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-14,656,926.89	10,339,699.00	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		575597040.40	441480772.43	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		2073.11	2161.87	2110.73
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		2073.11	2161.87	
m	Transportation Cost Paid to railways	Rs		66072572.00	51120700.00	117193272
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		237.97	250.33	243.21
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			237.97	250.33	243.21
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,311.08	2,412.20	2353.94
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,494	3,537	3,509
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-(tu))/(r)*(q/1000))/(1-v)	Rs/ KWh		1.657	1.708	1.680
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.284	0.335	
z	Scheduled Generation during the Period	Kwh		441,747,250.00	233,593,750.00	675,341,000
aa	FCA Claim for the Period (yX z)	Rs		125456219	78263906.25	203,710,125


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