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Receipt No. 9502
Date 3 MAR 2020
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C/PGCL

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

NO. 03-09/ Bills-15/ 161

Raipur Dtd. 29-Feb-2020

To,

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

Sub: Fuel Cost Adjustment calculation for the 5th 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 order referred above, please find enclosed FCA Calculation amounting to Rs. **455,879,836** /- for the 5th Bi-Monthly period of FY 2019-20 (Dec-19 & Jan-20). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Apr-20**

Executive 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. (Fin) CSPGCL, Raipur
- 3 The E.D. (O&M:Gen) 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-5th Bi Monthly of FY 2019-20 Dec-2019 to Jan-2020
- 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 5th Bi-Monthly period of FY 2019-20.

All Figures in Rs.

Name of Plant	Dec-19	Jan-20	Total
KTPS	-5318426	11,651,904	6,333,478
HTPS	13289164	20,396,343	33,685,507
DSPM TPS	58583508	73,710,354	132,293,862
KW Extn	9130717	11,029,388	20,160,105
MTTPS	138286921	125,119,963	263,406,884
Total	213,971,884	241,907,952	455,879,836

RUPEES FORTY FIVE CRORES FIFTY EIGHT LAKHS SEVENTY NINE THOUSAND EIGHT HUNDRED THIRTY SIX ONLY

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
Apr-20	3,166,739	16,842,754	66,146,931	10,080,053	131,703,442	227,939,91
May-20	3,166,739	16,842,753	66,146,931	10,080,052	131,703,442	227,939,91
Total	6,333,478	33,685,507	132,293,862	20,160,105	263,406,884	455,879,83


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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.128125500	0.098452550	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.128125500	0.098452550	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001473443	0.001132204	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.126652057	0.097320346	
g	Amount charged by the Coal / Lignite Company	(Rs.)		214,636,565.62	164,928,271.04	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs.)		214,636,565.62	164,928,271.04	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10 ⁶))	Rs/MT		1694.69	1694.69	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1694.69	1694.69	
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	1872.67	1872.67	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,306	3,322.00	
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 Auxiliary Consumption	%	11.25	11.25	11.25	
t	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.808	1.963	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		-0.047	0.108	
w	Scheduled Generation during the Period	KWh		113,158,000	107,888,000	
aa	FCA Claim for the Period (vXw)	Rs		-5,318,426	11,651,904	6,333,478

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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.387216	0.392586	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.387216	0.392586	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000774432	0.000785172	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.386441568	0.391800828	
g	Amount charged by the Coal / Lignite Company	(Rs.)		690748456.13	700327106.38	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-54662583.15	3290817.34	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		636085872.98	703617923.72	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1646.01	1795.86	
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	1646.01	1795.86	
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	1,726.76	1,876.61	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,399	3,663	
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))/(O)*(n/1000))/(1-s)	Rs/ KWh		1.486	1.499	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.034	0.047	
w	Scheduled Generation during the Period	KWh		390,857,750	433,964,750	
x	FCA Claim for the Period (vXw)	Rs		13289164	20396343	33,685,50

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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.190718	0.193363	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.190718	0.193363	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000381436	0.000386726	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.190336564	0.192976274	
g	Amount charged by the Coal / Lignite Company	(Rs.)		340,219,385.37	344,937,203.57	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-26923361.85	1620850.38	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		313296023.52	346558053.95	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1646.01	1795.86	
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	1646.01	1795.86	
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	1,726.76	1,876.61	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,394	3,629	
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		1.273	1.293	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.03	0.05	
w	Scheduled Generation during the Period	KWh		304,357,250	220,587,750	
x	FCA Claim for the Period (vXw)	Rs		9,130,717	11,029,388	20,160,105

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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.26142311	0.29430991	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.26142311	0.29430991	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000522846	0.000588620	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.260900264	0.293721290	
g	Amount charged by the Coal / Lignite Company	(Rs.)		477587113.01	533861848.86	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		1,909,934.51	-8,743,707.43	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		479,497,047.52	525,118,146.93	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1837.86	1787.81	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1837.86	1787.81	
m	Transportation Cost Paid to railways	Rs		73449907.20	82614782.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		281.52	281.27	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			281.52	281.27	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2119.38	2069.08	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3384.23	3190.05	
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-(tu))/(r)*(q/1000))/(1-v)	Rs/ KWh		1.717	1.778	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.190	0.251	
z	Scheduled Generation during the Period	Kwh		308,334,250	293,666,750	
aa	FCA Claim for the Period (yX z)	Rs		58,583,508	73,710,354	132,293,862

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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.405855270	0.34013154	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.40585527	0.34013154	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.003246842	0.002721052	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.402608428	0.337410488	
g	Amount charged by the Coal / Lignite Company	(Rs.)		702311748.09	605953214.63	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-25,068,785.75		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		677242962.34	605953214.63	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1682.14	1795.89	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1682.14	1795.89	
m	Transportation Cost Paid to railways	Rs		157393263.00	126874319.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		390.93	376.02	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			390.93	376.02	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,073.07	2,171.91	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,079	2,962.00	
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		1.686	1.836	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.313	0.463	
z	Scheduled Generation during the Period	Kwh		441,811,250	270,237,500	
aa	FCA Claim for the Period (yX z)	Rs		138,286,921	125,119,963	263,406,884

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