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Receipt No. 5755
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Section



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Chief Engineer (C&RA)

NO. 03-09/Bills-15/747

Raipur Dtd.

31-Oct-2019

To,

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

Sub: Fuel Cost Adjustment calculation for the 3rd 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. **91,422,540** /- for the 3rd Bi-Monthly period of FY 2019-20 (Aug-19 & Sept-19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Dec-19**

Pravin
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. (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 (cspgcl.co.in/cspgcl) under the link Fuel Cost Adjustment-3rd Bi Monthly of FY 2019-20 Aug-2019 to Sept-2019
- The S.O. to M.D. CSPGCL, Raipur
The S.O. to M.D. CSPDCL, Raipur
The Manager (B&CM) CSPGCL, Raipur

Fuel Cost Adjustment calculation for the 3rd Bi-Monthly period of FY 2019-20.

All Figures in Rs.

Name of Plant	Aug-19	Sep-19	Total
KTPS	10540831	-27,552,890	-17,012,059
HTPS	-48164015	3,239,456	-44,924,559
DSPM TPS	23299362	1,284,088	24,583,450
KW Extn	-32000713	1,517,350	-30,483,363
MTTPS	80271085	78,987,986	159,259,071
Total	33,946,550	57,475,990	91,422,540

RUPEES NINE CRORES FOURTEEN LAKHS TWENTY TWO THOUSAND FIVE HUNDRED FORTY 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
Dec-19	-8,506,030	-22,462,280	12,291,725	-15,241,682	79,629,536	45,711,269
Jan-20	-8,506,029	-22,462,279	12,291,725	-15,241,681	79,629,535	45,711,271
Total	-17,012,059	-44,924,559	24,583,450	-30,483,363	159,259,071	91,422,540


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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 Aug-19	For Month of Sept-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.096391800	0.104165900	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.096391800	0.104165900	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001108506	0.001197908	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.095283294	0.102967992	
g	Amount charged by the Coal / Lignite Company	(Rs.)		160,717,005.73	173,679,001.13	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-42,898,547.38	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		160,717,005.73	130,780,453.75	
j	Rate of Coal for the period Charged by Coal Company = $(I/(I*10^6))$	Rs/MT		1686.73	1270.11	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1686.73	1270.11	
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	1448.09	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,324.00	3,444.00	
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		1.953	1.464	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.098	-0.391	
w	Scheduled Generation during the Period	KWh		107,559,500	70,467,760	
aa	FCA Claim for the Period (vXw)	Rs		10,540,831	-27,552,890	-17,012,059


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Details/Information for Computation of Energy Charge Rates

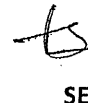
Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Description	Unit	Considered in Tariff order	For Month of Aug 19	For Month of Sept-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.357110	0.280931	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.357110	0.280931	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000714220	0.000561862	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.356395780	0.280369138	
g	Amount charged by the Coal / Lignite Company	(Rs.)		634230288.36	498935759.65	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		44027140.5		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		590203147.86	498935759.65	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1656.03	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	1656.03	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	1,736.78	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,776	3,728	
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		1.346	1.460	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		-0.106	0.008	
w	Scheduled Generation during the Period	KWh		454,377,500	404,932,000	
x	FCA Claim for the Period (vXw)	Rs		48164015	3239456	-44,924,559


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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 Aug-19	For Month of Sept-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.175890	0.138369	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.175890	0.138369	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000351780	0.000276738	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.175538220	0.138092262	
g	Amount charged by the Coal / Lignite Company	(Rs.)		312,382,082.26	245,744,478.63	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-21685009.5		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		290697072.76	245744478.63	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1656.03	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	1656.03	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	1,736.78	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,772	3,729	
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 Auxilliary Consumption	%	5.25	5.25	5.25	
t	ECR for the Period= ((p-(qxr))/(0)*(n/1000))/(1-s)	Rs/ KWh		1.152	1.248	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		-0.091	0.005	
w	Scheduled Generation during the Period	KWh		351,666,190	303,469,940	
x	FCA Claim for the Period (vXw)	Rs		-32,000,713	1,517,350	30,483,363

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Details/Information for Computation of Energy Charge Rates

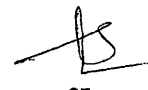
Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Description	Unit	Considered in Tariff order	For Month of Aug-19	For Month of Sept-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.20022905	0.13919568	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.20022905	0.13919568	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000400458	0.000278391	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.199828592	0.138917289	
g	Amount charged by the Coal / Lignite Company	(Rs.)		368305439.01	266807229.26	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		12,979,581.83	-20,689,379.19	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		381,285,020.84	246,117,850.07	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1908.06	1771.69	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1908.06	1771.69	
m	Transportation Cost Paid to railways	Rs		51101029.00	35103778.24	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		255.72	252.70	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			255.72	252.70	
q	Landed Price of Coal per MT ((l+p)	Rs/MT	1,921.22	2163.78	2024.39	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3697.20	3623.26	
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		1.605	1.532	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.078	0.005	
z	Scheduled Generation during the Period	Kwh		298,709,770	256,817,500	
aa	FCA Claim for the Period (yX z)	Rs		23,299,362	1,284,088	24,583,450


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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 Aug-19	For Month of Sept-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.25742681	0.20902059	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.25742681	0.20902059	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002059414	0.001672165	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.255367396	0.207348425	
g	Amount charged by the Coal / Lignite Company	(Rs.)		534502664.94	476344890.82	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		6,465,981.17	40,338,864.93	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		528036683.77	436006025.89	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$	Rs/MT		2067.75	2102.77	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		2067.75	2102.77	
m	Transportation Cost Paid to railways	Rs		62158047.00	52848840.00	
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		243.41	254.88	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			243.41	254.88	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,311.16	2,357.65	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,677	3,623.00	
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= $((s-(txu))/(r)*(q/1000))/(1-v)$	Rs/ KWh		1.618	1.630	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.245	0.257	
z	Scheduled Generation during the Period	Kwh		327,637,080	307,346,260	
aa	FCA Claim for the Period (yX z)	Rs		80,271,085	78,987,986	159,259,071


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