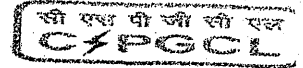


O/o. E.D. (EITC)
CSPDCL Raipur
Receipt No. 2121
Date 03 JUL 2018
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CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)
Office of the Chief Engineer (C&CP)

NO. 03-09/ Bills-15/ 233

Raipur Dtd.

26-Apr-2018

To,

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

Sub: Fuel Cost Adjustment calculation for the 6th Bi-Monthly period of FY 2017-18.
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. **287,651,626** /- for the 6th Bi-Monthly period of FY 2017-18 (Feb-18 & Mar- 18). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Jun-18**

Chief Engineer (C&CP)
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/cspgcl) under the link Fuel Cost Adjustment- 6th Bi Monthly of FY 2017-18 (Feb-2018 to Mar- 2018)
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 6th Bi-Monthly period of FY 2017-18.

All Figures in Rs.

Name of Plant	Feb-18	Mar-18	Total
KTPS	-17,013,789	-3,501,056	-20,514,845
HTPS	26,983,961	23,432,571	50,416,532
DSPM TPS	-18,266,999	-978,365	-19,245,364
KW Extn	16,971,426	14,668,852	31,640,278
MTTPS	112,168,125	133,186,900	245,355,025
Total	120,842,724	166,808,902	287,651,626

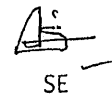
RUPEES TWENTY EIGHT CRORES SEVENTY SIX LAKHS FIFTY ONE THOUSAND SIX HUNDRED TWENTY SIX ONLY

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
Jun-18	-10,257,423	25,208,266	-9,622,682	15,820,139	122,677,513	143,825,81
Jul-18	-10,257,422	25,208,266	-9,622,682	15,820,139	122,677,512	143,825,81
Total	-20,514,845	50,416,532	-19,245,364	31,640,278	245,355,025	287,651,62


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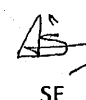
Details/Information for Computation of Energy Charge Rates

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 Feb-18	For Month of Mar-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.109106440	0.136062470	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.109106440	0.136062470	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001254724	0.001564718	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.107851716	0.134497752	
g	Amount charged by the Coal / Lignite Company	(Rs.)		175,906,248.16	241,139,138.30	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-10,268,632.50		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		165,637,615.66	241,139,138.30	
j	Rate of Coal for the period Charged by Coal Company $= (i/(f*10^6))$	Rs/MT		1535.79	1792.89	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1535.79	1792.89	
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	1713.77	1970.87	
o	Average GCV of coal / Lignite as fired as per tariff order	(kCal/Kg)	3,080.85	3,498	3,753	
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		1.706	1.828	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		-0.149	-0.027	
w	Net Generation during the Period	KWh		114,186,500	129,668,750	
aa	FCA Claim for the Period (vXw)	Rs		-17,013,789	-3,501,056	-20,514,845


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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 Feb-18	For Month of Mar-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.321131	0.233495	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.321131	0.233495	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000642262	0.000466990	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.320488738	0.233028010	
g	Amount charged by the Coal / Lignite Company	(Rs.)		570331289.38	414689034.73	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-12834127.39	-16617774.97	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		557,497,161.99	398,071,259.76	
j	Rate of Coal for the period Charged by Coal Company $= (i/(f*10^6))$	Rs/MT		1739.52	1708.25	
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	1739.52	1708.25	
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	1,820.27	1,789.00	
o	Average GCV of coal / Lignite as fired as per tariff order	(kCal/Kg)	3,406.33	3,504	3,473	
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		1.520	1.507	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.068	0.055	
w	Net Generation during the Period	KWh		396,822,950	426,046,750	
x	FCA Claim for the Period (vXw)	Rs		26,983,961	23,432,571	50,416,532

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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 Feb-18	For Month of Mar-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.20706752	0.26322097	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.20706752	0.26322097	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000414135	0.000526442	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.206653385	0.262694528	
g	Amount charged by the Coal / Lignite Company	(Rs.)		384512743.16	482,934,922.04	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-1,369,139.50	24,572,538.85	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		383,143,603.66	507,507,460.89	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$	Rs/MT		1854.03981	1931.930082	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1854.03981	1931.930082	
m	Transportation Cost Paid to railways	Rs		40291943.00	51,513,886.00	
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		194.97	196.10	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			194.97	196.10	
q	Landed Price of Coal per MT $((l+p)$	Rs./MT	1,921.22	2049.01	2128.03	
r	Average GCV of coal / Lignite as fired as per tariff order	(kCal/Kg)	3,449.20	3831	3828	
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		1.466	1.524	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		-0.061	-0.003	
z	Net Generation during the Period	Kwh		299,459,000	326,121,750	
aa	FCA Claim for the Period (yX z)	Rs		-18,266,999	-978,365	-19,245,364

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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 Feb-18	For Month of Mar-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.158169	0.115005	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.158169	0.115005	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000316338	0.000230010	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.157852662	0.114774990	
g	Amount charged by the Coal / Lignite Company	(Rs.)		280,909,440.98	204,249,823.01	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-6321286.61	-8184874.25	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		274,588,154.37	196,064,948.76	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1739.52	1708.255	
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	1739.52	1708.26	
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	1,820.27	1,789.01	
o	Average GCV of coal / Lignite as fired as per tariff order	(kCal/Kg)	3,400.59	3,502	3,477	
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		1.300	1.287	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.057	0.044	
w	Net Generation during the Period	KWh		297,744,310	333,383,000	
x	FCA Claim for the Period (vXw)	Rs		16,971,426	14,668,852	31,640,278


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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 Feb-18	For Month of Mar-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.39052349	0.33534688	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.39052349	0.33534688	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.003124188	0.002682775	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.387399302	0.332664105	
g	Amount charged by the Coal / Lignite Company	(Rs.)		752648818.35	669905082.11	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs.)		752648818.35	669905082.11	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10 ⁶))	Rs/MT		1942.82	2013.76	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1942.82	2013.76	
m	Transportation Cost Paid to railways	Rs		81963309.00	73352030.00	
n	Transportation Charge rate paid to Railways (m/(fX10 ⁶))	Rs/MT		211.57	220.50	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			211.57	220.50	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,154	2,234	
r	Average GCV of coal / Lignite as fired as per tariff order	(kCal/Kg)	3,280.29	3,669.00	3,781.000	
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		1.470	1.480	
x	ECR as considered in Tariff order	Rs/ KWh	1.20	1.20	1.20	
y	Change in ECR (w-x)	Rs/ KWh		0.270	0.280	
z	Net Generation during the Period	Kwh		415,437,500	475,667,500	
aa	FCA Claim for the Period (yX z)	Rs		112,168,125	133,186,900	245,355,025

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