

CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED  
Receipt No. 2814  
Date 31 JUL 2015  
DGM (IT) / 2240  
Web  
Section NO. 03-09/ FCA Bill-15/ 587



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Raipur Dtd. 31/07/2015

To,

The Executive Director (Comm)  
4<sup>th</sup> Floor Vidyut Sewa Bhawan  
CSPDCL, Raipur

Sub: Fuel Cost Adjustment calculation for the first quarter of FY 2015-16  
(Apr 2015 to June 2015).

- Ref: 1) CSERC order no. PNo.-26 of 2012(M)/2012/431 dt. 02/07/2012  
2) CSERC letter no. Suo-motu P.No. 26/2012/814, Dtd. 12/08/2012  
3) CSERC letter no. 1456, dtd. 02/11/2013  
4) CSERC order dtd. 29/09/2014 in Suo-motu P. no. 36 of 2014 (M).  
5) CSERC tariff order dtd. 23/05/2015

In compliance to the directives of CSERC vide order referred above, please find enclosed herewith FCA Calculation amounting to Rs. **83,87,88,572/- (Rs. Eighty Three Crore Eighty Seven Lacs Eighty Eight Thousand Five Hundred Seventy Two Only)** for the first quarter of FY – 2015-16 (Apr 2015 to June 2015). As per CSERC order, the above FCA amount shall be claimed in three installment w.e.f. Sep 2015.

Enclosed:- As above

Executive Director (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 ([cseb.gov.in/cspgcl](http://cseb.gov.in/cspgcl)) under the new tab (link/button) Quarterly FCA.
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.

**FCA calculation for the 1st Quarter of FY 2015-16  
(Apr 2015 to June 2015)**

All Figures in Rs.


Name of Plant	Apr-15	May-15	Jun-15	Total
KTPS	54,166,312	59,317,944	51,114,716	164,598,972
HTPS	123,001,876	100,102,552	72,146,952	295,251,380
DSPM TPS	106,841,715	106,750,411	105,637,877	319,230,003
KW Extn			59,708,217	59,708,217
<b>Total</b>	<b>284,009,903</b>	<b>266,170,907</b>	<b>288,607,762</b>	<b>838,788,572</b>

FCA charges for the 1st quarter of FY 2015-16 **838,788,572**

(Rs. Eighty Three Crore Eighty Seven Lacs Eighty Eight Thousand Five Hundred Seventy Two Only)

As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

Month	KTPS	HTPS	DSPM	KW Extn	Total
Sep-15	54,866,324	98,417,127	106,410,001	19,902,739	<b>279,596,191</b>
Oct-15	54,866,324	98,417,127	106,410,001	19,902,739	<b>279,596,191</b>
Nov-15	54,866,324	98,417,126	106,410,001	19,902,739	<b>279,596,190</b>
<b>Total</b>	<b>164,598,972</b>	<b>295,251,380</b>	<b>319,230,003</b>	<b>59,708,217</b>	<b>838,788,572</b>

  
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Details/Information for Computation of Energy Charge Rates for FCA from April 2015 to June 2015

Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Month	Unit	Considered in Tariff order from 01 Aug 2013	For 1st Month of the Quarter (Apr)	For 2nd Month of the Quarter (May)	For 3rd Month of the Quarter (June)	For the Quarter
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.19128494	0.20327054	0.20505551	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)	-	0.19128494	0.20327054	0.20505551	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)	-	0.002199777	0.002337611	0.002358138	
f	Net coal / Lignite Supplied (c-e)	(MMT)	-	0.189085163	0.200932929	0.202697372	
g	Amount charged by the Coal / Lignite Company	(Rs.)	-	231,342,608.09	245,661,882.93	248,032,362.43	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	-	-3229505.96			
i	Net amount Charged by Coal Company (g+h)	(Rs.)	-	228113102.13	245661882.93	248,032,362.43	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT	899.67	1206.404026	1222.606391	1223.658503	
k	Rate of Bonus payable to Coal Company	Rs/MT	0	0	0	0	
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT	899.67	1206.404026	1222.606391	1223.658503	
m	Transportation Charge per Ton	Rs/MT	95.88	95.88	95.88	95.88	
n	Landed Price of Coal per MT (l+m)	Rs/MT	995.55	1302.284026	1318.486391	1319.538503	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3323	3323	3323	3323	
p	Normative SHR	Kcal/ KWh	3110	3110	3110	3110	
q	Normative Specific Oil Consumption	ml/ KWh	2	2	2	2	
r	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	10	
s	Normative Auxiliary Consumption	%	11.25	11.25	11.25	11.25	
t	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.364	1.381	1.383	
u	ECR as considered in Tariff order	Rs/ KWh	1.043	1.043	1.043	1.043	
v	Change in ECR (t-u)	Rs/ KWh		0.321	0.338	0.340	
w	Net Generation during the Period	KWh		168,742,404	175,496,876	150,337,400	
x	FCA Claim for the Period (vXw )	Rs		54,166,312	59,317,944	51,114,716	164,598,972

  
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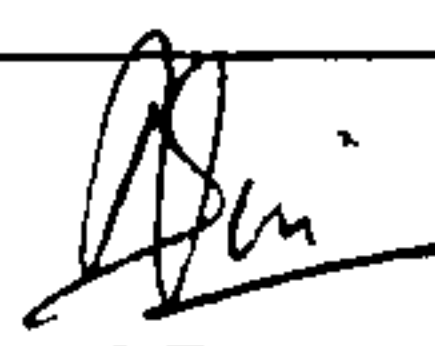
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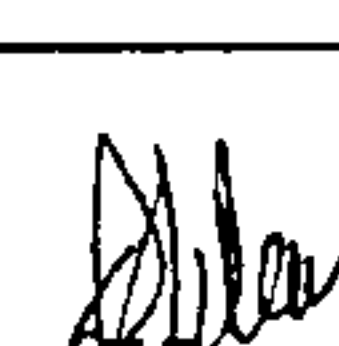
Details/Information for Computation of Energy Charge Rates for FCA from April 2015 to June 2015

Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Month	Unit	Considered in Tariff order from 01 Aug 2013	For 1st Month of the Quarter (Apr)	For 2nd Month of the Quarter (May)	For 3rd Month of the Quarter (June)	For the Quarter
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.599900	0.650700	0.372252	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)	-	0.599900	0.650700	0.372252	
d	Normative Transit & Handling Losses	%	0.30%	0.30%	0.30%	0.30%	
e	Normative Transit & Handling Losses (cXd)	(MMT)	-	0.0017997	0.0019521	0.00116756	
f	Net coal / Lignite Supplied (c-e)	(MMT)	-	0.5981003	0.6487479	0.371135244	
g	Amount charged by the Coal / Lignite Company	(Rs.)	-	724,895,763.92	786,280,502.74	449,814,799.02	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	-	26,118,597.75			
i	Net amount Charged by Coal Company (g+h)	(Rs.)	-	751014361.67	786280502.74	449814799.02	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1255.666251	1211.996991	1211.996991	
k	Rate of Bonus payable to Coal Company	Rs/MT					
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT	953.58	1255.666251	1211.996991	1211.996991	
m	Transportation Charge per Ton	Rs/MT	80.69	80.69	80.69	80.69	
n	Landed Price of Coal per MT (l+m)	Rs./MT	1034.27	1336.356251	1292.686991	1292.686991	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3439	3439	3439	3439	
p	Normative SHR	Kcal/ KWh	2650	2650	2650	2650	
q	Normative Specific Oil Consumption	ml/ KWh	1	1	1	1	
r	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	10	
s	Normative Auxiliary Consumption	%	9.70	9.70	9.70	9.70	
t	ECR for the Period = ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.136	1.099	1.099	
u	ECR as considered in Tariff order	Rs/ KWh	0.879	0.879	0.879	0.879	
v	Change in ECR (t-u)	Rs/ KWh		0.257	0.220	0.220	
w	Net Generation during the Period	KWh		478,606,522	455,011,598	327,940,689	
x	FCA Claim for the Period (vXw )	Rs		123,001,876	100,102,552	72,146,952	295,251,380

  
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Details/Information for Computation of Energy Charge Rates for FCA from April 2015 to June 2015

Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Month	Unit	Considered in Tariff order from 01 Aug 2013	For 3rd Month of the Quarter (June)	For the Quarter
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.183348	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-		
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)	-	0.183348	
d	Normative Transit & Handling Losses	%	0.30%	0.30%	
e	Normative Transit & Handling Losses (cXd)	(MMT)	-	0.000550044	
f	Net coal / Lignite Supplied (c-e)	(MMT)	-	0.182797956	
g	Amount charged by the Coal / Lignite Company	(Rs.)	-	221,550,572.63	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	-		
i	Net amount Charged by Coal Company (g+h)	( Rs.)	-	221,550,572.63	
j	Rate of Coal for the period Charged by Coal Company $= (i / (f * 10^6))$	Rs/MT		1211.996991	
k	Rate of Bonus payable to Coal Company	Rs/MT			
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1211.996991	
m	Transportation Charge per Ton	Rs/MT		80.69	
n	Landed Price of Coal per MT (l+m)	Rs./MT	1034.27	1292.686991	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3439	3439	
p	Normative SHR	Kcal/ KWh	2424	2424	
q	Normative Specific Oil Consumption	ml/ KWh	1	1	
r	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	
s	Normative Auxiliary Consumption	%	6.00	6.00	
t	ECR for the Period= $((p - (qxr)) / (o) * (n / 1000)) / (1 - s)$	Rs/ KWh	0.772	0.965	
u	ECR as considered in Tariff order	Rs/ KWh	0.772	0.772	
v	Change in ECR (t-u)	Rs/ KWh		0.193	
w	Net Generation during the Period	KWh		309,369,000	
x	FCA Claim for the Period (vXw)	Rs		59,708,217	<b>59,708,217</b>

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Details/Information for Computation of Energy Charge Rates for FCA from April 2015 to June 2015

Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Month	Unit	Considered in Tariff order from 01 Aug 2013	For 1st Month of the Quarter (Apr)	For 2nd Month of the Quarter (May)	For 3rd Month of the Quarter (June)	For the Quarter
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.21991449	0.16240371	0.23695289	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)	-	0.21991449	0.16240371	0.23695289	
d	Normative Transit & Handling Losses	%	0.30%	0.30%	0.30%	0.30%	
e	Normative Transit & Handling Losses (cXd)	(MMT)	-	0.000659743	0.000487211	0.000710859	
f	Net coal / Lignite Supplied (c-e)	(MMT)	-	0.219254747	0.161916499	0.236242031	
g	Amount charged by the Coal / Lignite Company	(Rs.)	-	267,573,296.43	198,563,053.49	290,979,827.17	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	-		-1,318,059.84		
i	Net amount Charged by Coal Company (g+h)	(Rs.)	-	267,573,296.43	197,244,993.65	290,979,827.17	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1220.3763	1218.189592	1231.702189	
k	Rate of Bonus payable to Coal Company	Rs/MT					
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1220.3763	1218.189592	1231.702189	
m	Transportation Cost Paid to railways	Rs		72,217,134.00	55,194,392.00	76,351,286.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		329.38	340.88	323.19	
o	Other Charges (per Ton) towards transportation	Rs/MT					
p	Total per ton Transportation Charges (n+o)			329.38	340.88	323.19	
q	Landed Price of Coal per MT ((l+p)	Rs/MT	1,125.02	1549.76	1559.07	1554.892189	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3432	3432	3432	3432	
s	Normative SHR	Kcal/ KWh	2500	2500	2500	2500	
t	Normative Specific Oil Consumption	ml/ KWh	1	1	1	1	
u	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	10	
v	Normative Auxiliary Consumption	%	9.00%	9.00	9.00	9.00	
w	ECR for the Period= ((s-(txu))/(r)*(q/1000))/(1-v)	Rs/ KWh		1.236	1.243	1.240	
x	ECR as considered in Tariff order	Rs/ KWh	0.897	0.897	0.897	0.897	
y	Change in ECR (w-x)	Rs/ KWh		0.339	0.346	0.343	
z	Net Generation during the Period	Kwh		315,167,300	308,527,200	307,982,150	
aa	FCA Claim for the Period (yX z)	Rs		106,841,715	106,750,411	105,637,877	319,230,003

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