

Computation of VCA Charges (6th bi-monthly period 2018-19)

(C) CHFC :-

Month	KTPS	HTPS	DSPM TPS	Korba(W) Extn.	Total Amount in Rs.
Feb-19	3,55,88,004	-19,06,023	-2,82,73,755	-20,09,590	33,98,635
Mar-19	-76,22,234	-1,61,01,132	-4,04,13,555	-1,42,61,489	-7,83,98,409
Total	2,79,65,770	-1,80,07,155	-6,86,87,310	-1,62,71,079	-7,49,99,774

(B) CHPP :-

- (i) Total units purchased from NTPC and NSPCL : 1,41,04,68,400 KWh ✓
- (ii) Amount paid against units purchased : Rs. 4,44,76,76,696 ✓
- Rate per unit : Rs. 3.15 /KWh ✓
- (iii) Average rate approved by CSERC for purchase of power from Central generating stations : Rs. 3.12 /KWh
- (iv) Diff. in rate (ii-iii) : Rs.0.03 /KWh
- (v) CHPP (in Rs.) (i)x(iv) : Rs. 4,23,14,052 ✓
- C. Gross VCA (A+B) in Rs : Rs.(-) 3,26,85,722 ✓
- D. Total quantum of power purchased during the period : 5,11,27,21,487 Kwh
- E. Quantum of power purchased for sale to retail consumers of the State : 4,51,32,42,307 KWh
- F. Allowable VCA (in Rs.)[C*(E/D)] : Rs. (-) 2,88,53,241
- G. Normative transmission & distribution losses as specified in Tariff order : 16.54%
- H. Allowable VCA Charges(Rs./Kwh) (F/E*(1-G)) : Rs. (-) 0.01/KWh

VCA Charge to be ~~recoverable~~ ^{deducted} from monthly energy bills of various categories of consumers:

- | | | |
|---|-----------------------|-----------------------|
| 1 | DLF consumers | Rs. (-) 0.01 per unit |
| 2 | Agriculture Consumers | Rs. (-) 0.01 per unit |
| 3 | Rest all categories | Rs. (-) 0.01 per unit |

To be deducted from energy bill for the consumption in the months of May'19 and June'19 payable in the months of June'19 and July '19.

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Computation of CHPP

S.No.	Particulars		
1	Scheduled energy purchased from CGs during sixth bi-monthly period	Kwh	1410468400
2	Amount paid against units purchased	Rs.	4,44,76,76,696
	Average rate of power purchase	Rs/Kwh	3.15
3	Average rate of Power Purchase as per Tariff Order	Rs/Kwh	3.12
4	Difference in the average rate of PP	Rs/Kwh	0.03
5	CHPP(Change in the cost of power purchased from CGs)	Rs.	42314052

Computation of VCA (6th Bi-monthly)

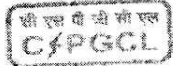
S.No.	Particulars		
1	CHFC	Rs	-74999774
2	CHPP	Rs	42314052
3	Gross VCA(sub total in Rs.)	CHFC+CHPP	-32685722
4	Allowable VCA(in Rs.)	Gross VCA(in Rs.) \times Q_{rs}/Q_{pp}	-28853241
5	Allowable VCA(in Rs/Kwh)	Allowable VCA(in Rs.)/[Qrs*(1-L)]	Rs/Kwh -0.01

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Computation of Qpp and Qrs (6th Bi-monthly)

S No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	Q_1	2851421560	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	Q_2	16461656	KwH
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL + CoGen Kawardha)	Q_3	8631000	KwH
4	Quantum of scheduled power purchased from CGs at state periphery (CSPTrdCL+NTPC+NSPCL+NPCIL+OHPCL+NHPCL+Bundle Power+SECI)	Q_4	1778893093	KwH
5	PGCIL actual losses for the bi-monthly period	L1	3.08%	
6	Quantum of scheduled power purchased from CGs at state periphery	$Q_5=Q_4(1-L1)$	1724103186	KwH
7	Quantum of actual power purchased from Renewable energy Sources	Q_6	199661484	KwH
8	Quantum of actual short term and long term power purchased from State IPPs and CGPs	Q_7	0	KwH
9	Quantum of scheduled short term purchased through inter state route (IEX)	Q_8	88217500	KwH
10	Quantum of scheduled short term purchased through inter state route at the State periphery	$Q_9=Q_8(1-L1)$	85500401	KwH
11	Quantum of power purchased from other Sources(if any)(Short term + Border Village+Un scheduled)	Q_{10}	226942200	KwH
12	Total Quantum of power purchased	$Q_{pp}=Q_1+Q_2+Q_3+Q_5+Q_6+Q_7+Q_9+Q_{10}$	5112721487	KwH
13	Normative transmission and distribution losses as specified inth Tariff order	L	16.54%	
14	Quantum of power scheduled for interstate sale(Sale through IEX+Sale to Telangana)	Q_{PT}	599479180	KwH
15	Quantum of power purchased for sale to retail consumers of the State	$Q_{RS}=Q_{pp}-Q_{PT}$	4513242307	KwH

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CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Executive Director (C&RA)

NO. 03-09/ Bills-15/ 281

Raipur Dtd.

30-Apr-2019

To

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

C.E. (RA&PM) CSPDCL, Raipur	
Letter No.	
No.	788
Date	01.05.19

Sub: Fuel Cost Adjustment calculation for the 6th Bi-Monthly period of FY 2018-19.
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. **192,007,274** /- for the 6th Bi-Monthly period of FY 2018-19 (Feb-19 & Mar-19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Jun-19**

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Executive Director (C&RA)
CSPGCL: Raipur

02:

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 F.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/cspc) under the link Fuel Cost Adjustment- 6th Bi Monthly of FY 2018-19 (Feb-2019 to Mar-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

Sharma, A.E

Fuel Cost Adjustment calculation for the 6th Bi-Monthly period of FY 2018-19.

All Figures in Rs.

Name of Plant	Feb-19	Mar-19	Total
KTPS	35588004	-7,622,234	27,965,770
HTPS	-1906023	-16,101,132	-18,007,155
DSPM TPS	-28273755	-40,413,555	-68,687,310
KW Extn	-2009590	-14,261,489	-16,271,079
MTTPS	136263484	130,743,564	267,007,048
Total	139,662,120	52,345,154	192,007,274

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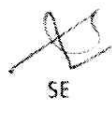
As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

All Figures in Rs.

Month	KTPS	HTPS	DSPM TPS	KW Extn	MTTPS	Total
Jun-19	13,982,885	-9,003,578	-34,343,655	-8,135,540	133,503,524	96,003,637
Jul-19	13,982,885	-9,003,577	-34,343,655	-8,135,539	133,503,524	96,003,637
Total	27,965,770	-18,007,155	-68,687,310	-16,271,079	267,007,048	192,007,274


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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-19	For Month of Mar-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.123583790	0.108104420	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.123583790	0.108104420	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001421214	0.001243201	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.122162576	0.106861219	
g	Amount charged by the Coal / Lignite Company	(Rs.)		212,132,307.17	181,234,228.02	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs)		212,132,307.17	181,234,228.02	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1736.48	1695.98	1717.58
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1736.480	1695.980	
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	1914.46	1873.96	1895.56
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,031	3,638	3,330
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		2.199	1.793	1.982
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.344	-0.062	
w	Scheduled Generation during the Period	KWh		103,453,500	122,939,250	
aa	FCA Claim for the Period (vXw)	Rs		35,588,004	-7,622,234	27,965,770


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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-19	For Month of Mar-19	Total for period
a Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.363877	0.400861	
b Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.363877	0.400861	
d Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e Normative Transit & Handling Losses (cXd)	(MMT)		0.000727754	0.000801722	
f Net coal / Lignite Supplied (c-e)	(MMT)		0.363149246	0.400059278	
g Amount charged by the Coal / Lignite Company	(Rs.)		646248535.79	711932423.09	
h Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-7729656	-39457305	
i Net amount Charged by Coal Company (g+h)	(Rs.)		638518879.79	672475118.09	
j Rate of Coal for the period Charged by Coal Company $= (i / (f * 10^6))$	Rs/MT		1758.28	1680.94	1717.74
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	1758.28	1680.94	1717.74
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	1,839.03	1,761.69	1,798.49
o Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,719	3,672	3,696
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		1.447	1.404	1.424
u ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v Change in ECR (t-u)	Rs/ KWh		-0.005	-0.048	
w Net Generation during the Period	KWh		381,204,500	335,440,250	
x FCA Claim for the Period (vXw)	Rs		-1906023	-16101132	-18,007.155

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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-19	For Month of Mar-19	Total for period
a. Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.179223	0.197439	
b. Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c. Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.179223	0.197439	
d. Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e. Normative Transit & Handling Losses (cXd)	(MMT)		0.000358446	0.000394878	
f. Net coal / Lignite Supplied (c-e)	(MMT)		0.178864554	0.197044122	
g. Amount charged by the Coal / Lignite Company	(Rs.)		318,301,517.65	350,653,282.99	
h. Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-3807144	-19434195	
i. Net amount Charged by Coal Company (g+h)	(Rs.)		314494373.65	331219087.99	
j. Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1758.28	1680.94	1717.74
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	1758.28	1680.94	
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	1,839.03	1,761.69	1798.49
o. Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,722	3,668	3,692
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 = $\frac{((p-(qr))/(l)^*(n/1000))/(1-s)}$	Rs/ KWh		1.236	1.201	1.218
u. ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v. Change in ECR (t-u)	Rs/ KWh		-0.007	-0.042	
w. Scheduled Generation during the Period	KWh		287,084,310	339,559,250	
x. FCA Claim for the Period (vXw)	Rs		-2009590.17	-14,261,489	-16,271,079


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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-19	For Month of Mar-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.23796240	0.24555969	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.23796240	0.24555969	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000475925	0.000491119	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.237486475	0.245068571	0.482555046
g	Amount charged by the Coal / Lignite Company	(Rs.)		434242474.03	446447453.25	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-13,562,556.23	-28,349,492.82	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		420,679,917.80	418,097,960.43	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1771.38	1706.04	1738.20
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1771.38	1706.04	
m	Transportation Cost Paid to railways	Rs		61702254.36	66141959.30	127844213.66
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		259.81	269.89	264.93
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			259.81	269.89	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2031.19	1975.93	2,003.13
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3928.71	3911.00	3919.30
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		1.418	1.385	1.401
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		-0.109	-0.142	
z	Scheduled Generation during the Period	Kwh		259,392,250	284,602,500	
aa	FCA Claim for the Period (yX z)	Rs		-28273755.25	-40413555	-68,687,310

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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-19	For Month of Mar-19	Total for period
Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.23573330	0.33633159	
Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.23573330	0.33633159	
Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
Normative Transit & Handling Losses (cXd)	(MMT)		0.001885866	0.002690653	
Net coal / Lignite Supplied (c-e)	(MMT)		0.233847434	0.333640937	0.567488371
Amount charged by the Coal / Lignite Company	(Rs.)		577182980.16	748707551.66	
Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		23,574,182.02	-15,603,240.33	
Net amount Charged by Coal Company (g+h)	(Rs.)		600757162.18	733104311.33	
Rate of Coal for the period Charged by Coal Company $= (i/(f \times 10^6))$	Rs/MT		2569.01	2197.29	2350.45
Rate of Bonus payable to Coal Company	Rs/MT				
Net Rate of coal payable to coal company (j+k)	Rs/MT		2569.01	2197.29	
Transportation Cost Paid to railways	Rs		54470246.00	90836459.00	145306705
Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		232.93	272.26	256.05
Other Charges (per Ton) towards transportation	Rs/MT				
Total per ton Transportation Charges (n+o)			232.93	272.26	256.05
Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,801.94	2,469.55	2606.53
Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,819	3,710	3,700
Normative SHR	Kcal/ KWh	2,378	2,378	2,378	
Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
Normative Auxiliary Consumption	%	5.25	5.25	5.25	
ECR for the Period= $(1-s-tx)/(r)*(q/1000)/(1-v)$	Rs/ KWh		1.838	1.667	1.75
ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
Change in ECR (w-x)	Rs/ KWh		0.465	0.294	
Scheduled Generation during the Period	Kwh		293,039,750	444,706,000	737,745,750
FCA Claim for the Period (yX z)	Rs		136263483.8	130743564	267,007,048

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