Computation of VCA Charges (2nd bi-monthly period 2018-19)

(A) CHFC:-

	KTPS	HTPS	DSPM TPS	Korba(W)Extn.	Total Amt. In Rs	
	39357036	12254100	0	12162080	63773216	
Jun 18	39337030		16517215	7340223	79291781	
July 18	42411668	13022675				
Total	81768704	25276775	16517215	19502303	143064997	

(B) CHPP:-

Total units purchased from NTPC and NSPCL

1317332445 KWh

Amount paid against units purchased

Rs. 4268338399.00

Rate per unit(I)

Rs. 3.24 /KWh

Average rate approved by CSERC for purchase of power from Central generating stations (II)

Rs. 3.12 /KWh

Difference in rate (I-II)

= . Rs. 0.12/KWh

CHPP (in Rs.)

Rs.158079893.00

(C) Gross VCA (A+B) in Rs.

Rs.301144890.00

Total quantum of power purchased during the period (D)

5262587800 Kwh

Quantum of power purchased for sale to retail consumers

(E) of the State

4249267800 KWh

(F) Allowable VCA (in Rs.)[C*(E/D)]

Rs. 243158943.00

Normative transmission & distribution losses as specified in

(G) Tariff order

16.54%

(H) Allowable VCA Charges(Rs./Kwh) (F/E*(1-G))

Rs.0.07/KWh

(G) VCA Charge to be deducted from monthly energy bills of various categories of consumers:

1) DLF consumers up to 40 units

Rs. 0.07 per unit

2) DLF consumers 41 to 200 units

Rs. 0.07 per unit

3) DLF Consumers above 2 00 units

- Rs. 0.07 per unit

4) Agriculture Consumers

Rs. 0.07 per unit

5) Rest all categories,

Rs. 0.07 per unit

To be recovered for the consumption in the months of Sep'18 and Oct'18 payable in the months of Oct'18 and Nov'18



Computation of Qpp qand Qrs

S No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	Qı	3275340760	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations	Q ₂	15711687	KwH
3 .	Quantum of actual power purchased from CSPGCL Renewable Power stations	Q ₃	494500	KwH
4	Quantum of scheduled power purchased from CGs	Q ₄	1788052462	KwH
5	PGCIL actual losses for the bi-monthly period	L1	3.56%	
6	Quantum of scheduled power purchased from CGs at state periphery	Q ₅ =Q ₄ (1-L1)	1724397794	KwH
7	Quantum of actual power purchased from Renewable energy Sources	Q ₆	183761239	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 interstate route	Q ₈	26648148	KwH
10	Quantum of scheduled short term purchased through interstate route at the State periphery	Q ₉ =Q ₈ (1-L1)	25699474	KwH
11	Quantum of power purchased from other Sources(if any)	Q ₁₀	37182346	KwH
12	Total Quantum of power purchased	$Q_{pp} = Q_1 + Q_2 + Q_3 + Q_5 + Q_6 + Q_7 + Q_9 + Q_{10}$	5262587800	KwH
13	Normative transmission and distribution losses as specified inth Tariff order	L a	16.54%	
14	Quantum of power scheduled for interstate sale	Q _P T	1013320000	KwH
15	Quantum of power purchased for sale to rtetail consumers of the State	Q _{RS} =Q _{PP} -Q _{PT}	4249267800	KwH

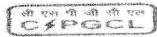
Computation of CHPP

Sno.	Particulars		
-	Scheduled energy purchased from CGs during First bi-monthly	IW	1317332445
	period		
2	Amount paid against units purchased	Rs.	4268338399
	Average rate of power purchase	Rs/Kwh	3.24
3	Average rate of Power Purchase as per Tariff Order	Rs/Kwh	3.12
4	Difference in the average rate of PP	Rs/Kwh	0.12
2	CHPP(Change in the cost of power purchased from CGs)	Rs.	158079893

Computation of VCA

Sno.	Particulars			
-	CHFC		Rs	143064997
2	СНРР		Rs	158079893
3	Gross VCA(sub total in Rs.)	CHFC+CHPP	Rs	301144890
4	Allowable VCA(in Rs.)	Gross VCA(in Rs.)xQ _{Rs/qpp}	Rs	243158943
5	Allowable VCA(in Rs/Kwh)	Allowable VCA(in Rs.)/[Qrs*(1-L)]	Rs/Kwh	0.07





CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Chief Engineer (C&CP)

NO. 03-09/ Bills-15/ 469

Raipur Dtd.

30-Aug-2018

To,

The Chief Engineer (RA&PM)

4th Floor Vidyut Seva Bhawan

CSPDCL, Raipur

3896 30.8.18

Sub:

Fuel Cost Adjustment calculation for the 2nd 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. 550,317,164 /- for the 2nd Bi-Monthly period of FY 2018-19 (June-18 & July- 18). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. Oct-18

30/00/18 / W/W/W/

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 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/cspgel) under the link Fuel Cost Adjustment- 2nd Bi Monthly of FY 2018-19 (June -2018 to July- 2018)

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

Shed No. 06, Vidyut Sewa Bhawan Complex, Dangania, Raipur 492013; CIN no. U40108CT2003SGC015821 Phone No. 0771-2574097; Fax: 0771-2574806; Email: ce.cncp@gmail.com; Web site: www.cseb.gov.in/cspgcl

and to sand

CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED (A Govt. of C.G. Undertaking)

C+PGCL

Executive Director (C&CP) Raipur Shed no.6, Vidyut Sewa Bhawan, Daganiya, Raipur (C.G.) 492013

4184

100918

No. 03-09/ 492

Raipur, dt. 10-9-18

To, Chief Engineer (RA & PM)

4th Floor Sewa Bhawan

CSPDCL, Raipur.

Sub: Revised Fuel Cost adjustment for 2nd Bi-monthly period (June 18 & July 18) of FY 2018-19.

Dete

Ref: 1. CSERC order in P.No 31/2018 (T) For MTTPS:Marwa.

 FCA Calculation for 2nd Bi-monthly period of FY 2018-19 vide T.O letter no 469 dtd. 30/08/2018

I (mg) 32

8

In compliance to tariff order of MTTPS:Marwa effective from 1st July 2018 Fuel Cost adjustment computation for the month of July 2018 is being revised. Accordingly the FCA value for MTTPS:Marwa has been revised from Rs 40,72,52,167/- to Rs32,65,67,562/- and total FCA valve has been revised from Rs55,03,17,164/-to Rs46,96,32,559 (Copy enclosed). The FCA amount shall be claimed in two installments w.e.f. Oct 2018

Encl: As above

Executive Director (C&CP)

CSPGCL: Raipur

Copy to

- 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 Executive Director (Fin.) CSPGCL, Raipur
- 3. The Executive Director (O&M:Gen.) CSPGCL, Raipur
- 4. The C.E. (EITC) CSPDCL, Raipur. Kindly upload the same in Company web site (cspc.co.in/cspgcl) under the link Revised Fuel Cost Adjustment 2nd Bi Monthly of FY 2018-19 (June-2018 to July-2018).
- 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

Regd office: "Vidut Sewa Bhawan", Dangania, Raipur (CG) Phone: 0771-2574097, Fax: 0771-2574806, Web Sita: www.cseb.gov.in/cspgcl :CIN:U40108CT2003SGC015821

CC (PM)I

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Revised Fuel Cost Adjustment calculation for the 2nd Bi-Monthly period of FY 2018-19.

All Figures in Rs. me of Plant Jun-18 Jul-18 TPS Total 39357036 42,411,668 HTPS 81,768,704 12254100 13,022,675 DSPM TPS 25,276,775 16,517,215 KW Extn 16,517,215 12162080 7,340,223 MTTPS 19,502,303 168463047 158,104,515 326,567,562 Total 232,236,263 237,396,296 469,632,559

RUPEES FORTY SIX CRORES NINETY SIX LAKHS THIRTY TWO THOUSAND FIVE HUNDRED FIFTY NINE ONLY

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

**onth	KTPS	HTPS	DC014 TEA		maxis— see	All Figures in R
Oct-18	40,884,352	13 630 655	DSPM TPS	KW Extn	MTTPS	Total
Nov-18	40,884,352	12,030,388	4,200,000	9,751,152	163,283,781	
Total		14,030,38/	8,258,607		103,203,761	
	81,768,704	25,276,775		2,731,131	100,200,701	234,816,278
			10,317,215	19,502,303	326,567,562	469,632,55

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FORMAT-I

Details/Information for Computation of Energy Charge Rates

Name of the Company: Chhattsigarh State Power Generation Company Limited

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

T	ne of the Power Station : Korba (East) Thermal Po Description	Unit	Considered in Tariff order	For Month of June-18	For Month of july- 18	period
a	Quantity of Coal / Lignite supplied by	(MMT)	-	0.163699200	0.152826350	
5/	Coal/Lignite Company Adjustment (+/-) in quantity supplied made by	(MMT)				
e (Coal/Lignite Company Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.163699200	0.152826350	
4	Normative Transit & Handling Losses	%	1.15%	1.15%		
- 1	Normative Transit & Handling Losses (cXd)	(MMT)		0.001882541		
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.161816659		
	Amount charged by the Coal / Lignite	(Rs.)		272,940,698.6		
h	Company Adjustment (+/-) in amount charged made by	(Rs.)		0.00	0.00	
4	Coal/Lignite Company Net amount Charged by Coal Company (g+h)	(Rs.)		272,940,698.6		
- 1	Rate of Coal for the period Charged by Coal	Rs/MT		1686.7	1686.71	
k	Company =(I/(f*10^6)) Rate of Bonus paybale to Coal Company	Rs/MT			3 1686.7	1
ī	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		1686.7 177.98		
	Transportation Charge per Ton	Rs/MT	177.98			
	Landed Price of Coal per MT (I+m)	Rs./MT	1,641.03			
	Average GCV of coal / Lignite as fired	(kCal/Kg) Kcal/ KWh	3,080.88			
	Normative SHR	ml/ KWh	2.00		2.00	d
q	Normative Specific Oil Consumption	Kcal/ml	10	1	0 10)
r	GCV of Secondary Fuel (Oil) Normative Auxiliary Consumption	%	11.2	11.2	5 11.2	5
S	ECR for the Period=	Rs/ KWh		2.10	59 2.17	2
	((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh	1.85	1.85	5 1.85	5
100	ECR as considered in Tariff order	Rs/ KWh		₹ 0.3	0.31	7
	Change in ECR (t-u) Scheduled Generation during the Period	KWh		125,340,8	133,790,75	50
	FCA Claim for the Period (vXw)	Rs	1	39,357,0	36 42411667.	75 81,768,7

FORMAT-I

Details/Information for Computation of Energy Charge Rates

me of the Company: Chhattsigarh State Power Generation Company Limited me of the Power Station: Korba (VVest) Thermal Power Station - HTPS

e de la composición della comp	Description	Unit	Considered in Tariff order	For Month of June-18	For Month of july- 18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.426790	0.454260	»-
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			R R A	
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.426790	0.454260	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000853580	0.000908520	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.425936420	0.453351480	
g	Amount charged by the Coal / Lignite Company	(Rs.)		757982539.66	806769484.90	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0		
į	Net amount Charged by Coal Company (g+h)	(Rs.)		757982539.66	781,617,684.90	
j	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1779.57	1724.09	
k	Rate of Bonus paybale to Coal Company	Rs/MT				9
1	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1779.57	1724.09	
m	Transportation Charge per Ton	Rs/MT	80.75	80.75	80.75	
n	Landed Price of Coal per MT (I+m)	Rs./MT	1,690.52	1,860.32	1,804.84	
0	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,656	3,566	
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	100 a
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		1.489	1.481	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
٧	Change in ECR (t-u)	Rs/ KWh		0.037	0.029	
W	Net Generation during the Period	KWh		331,191,880	449,057,750	1
×	FCA Claim for the Period (vXw)	Rs		12254100	13022675	25,276,77

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Details/Information for Computation of Energy Charge Rates

Name of the Company: Chhattsigarh State Power Generation Company Limited

Name of the Company: On Shyema Prasad Mukhariee Thermal Power Station - DSPM TPS

	ne of the Power Station : Dr. Shyama Prasad Muk Description	Unit	Considered in Tariff order	For 18	Month of June-	18	Total for period
	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)			0.19102324	0.17985193	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)					
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)	/=046= //		0.19102324	0.17985193	
	Normative Transit & Handling Losses	%	0.20%	T	0.20%	0.20%	
d	Normative Transit & Handling Losses (cXd)	(MMT)		†	0.000382046	0.000359704	
ė		(MMT)		-	0.190641194	0.179492226	
1	Net coal / Lignite Supplied (c-e)	<u> </u>		-	343841198.41	331,746,586.39	
9	Amount charged by the Coal / Lignite Company	(Rs.)					
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			2,252,508.00		
1	Net amount Charged by Coal Company (g+h)	(Rs.)		T	346,093,706.41		
i	Rate of Coal for the period Charged by Coal	Rs/MT		T	1815.41932	1818.963885	
	Company =(I/(fX10^6)) Rate of Bonus paybale to Goal Company	Rs/MT		†		,	
k	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		T	1815.4193	1818.96388	5
		Rs		+	44041731.0	0 40431299	
m	Transportation Cost Paid to railways	Rs/MT		+-	231.0	2 225.2	5
n	Transportation Charge rate paid to Railways (m/(fX10^6))			\perp			
0	Other Charges (per Ton) towards transportation	Rs/MT				2 225.2	6
р	Total per ton Transportation Charges (n+o)				231.0		
q	Landed Price of Coal per MT ((I+p)	Rs./MT	1,921.22	2	2046.4		
ſ	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	7	3674.7	1 354	9
s	Normative SHR	Kcal/ KW	2,500	T.	2,500	2,500)
1	Normative Specific Oil Consumption	ml/ KWh	0.50	5	0.50	0.50)
	- 55 - 15 - 15 - 1 (OII)	Kcal/ml	10.00		10.0	0 10.00)
u	Normative Auxiliary Consumption	%	9.0	ot-	= 9.0	9.00)
٧	And the second s	Rs/ KWh	+	╁	1.52	27 1.57	9
W	((s-(txu))/(r)*(q/1000)/(1-v)			_	4.56	27 1.52)7
×	ECR as considered in Tariff order	Rs/ KWh	1.52	7	1.52		
У	Change in ECR (w-x)	Rs/ KWh			0.00		
Z	- Control of the Porior	Kwh			27342750		The state of the s
a		Rs			(1272-117)	0 16,517,2	16,517,2

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Details/Information for Computation of Energy Charge Rates

Name of the Company: Chhattsigarh State Power Generation Company Limited

- CIT	e of the Power Station : - 1x500 MW KW Extn Description	S 1	Considere d in Tariff order	For Month of June-18	For Month of july- 18	Total for period
	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.210210	0.223740	
ъ	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			0.223740	
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.210210		
d	Normative Transit & Handling Losses	%	0.20%		0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000420420	0.000447480	
-	Net coal / Lignite Supplied (c-e)	(MMT)	-	0.209789580	0.223292520	
- 1	Amount charged by the Coal / Lignite	(Rs.)		373,334,683.78	397,364,074.74	
h	Company Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs.)		373334683.78		
j	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1779.57	1724.09	
k	Rate of Bonus paybale to Coal Company	Rs/MT				
ī	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1779.5	1724.09	
m	Transportation Charge per Ton	Rs/MT	80.75			1
n	Land Differ of Cool par MT (I+m)	Rs./MT	1,690.52	1,860.32		
	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,632		
	TITLE CLID	Kcal/ KWh	2,375	2,375	2,375	
- 0	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 5.25	(i)	
	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.28	1.26	5
	ECR as considered in Tariff order	Rs/ KWh	1.24			
	Change in ECR (t-u)	Rs/ KWh		0.03	0.02	2
*1	Scheduled Generation during the Period	KWh		320,054,75		
	FCA Claim for the Period (vXw)	Rs		12162080	.5 7,340,22	3 19,502,30

FORMAT-

Details/information for Computation of Energy Charge Rates

ame of the Company Chhattsigarh State Power Generation Company Limited

	ame of the Power Station Marwa Thermal Power Plant - Month	Unit	Considered in Tariff order	For Month of June-18	For Month of july- 18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.37906283	0.38564172	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
Ç	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.37906283	0.38564172	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0 003032503	0.003085134	
ľ	Net coal / Lignite Supplied (c-e)	(MMT)		0.376030327	0.382556586	
P	Amount charged by the Coal / Lignite Company	(Rs.)		761272170.59	783972404.71	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.00	53,372,396.15	
4	Net amount Charged by Coal Company (g+h)	(Rs.)		761272170.59	837344800.86	
i	Rate of Coal for the period Charged by Coal Company =(i/(fX10^6))	Rs/MT		2024.50	2188 81	
k	Rate of Bonus paybale to Coal Company	Rs/MT				
i	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		2024.5	2188,81	······································
m	Transportation Cost Paid to railways	Rs		84779355.00	86376600.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		225,46	225.79	
0	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			225.46	225.79	-
q	Landed Price of Coal per MT ((I+p)	Rs./MT	1,535	2,249.96	2,415	**************************************
F	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,705	3,533	
×	Normative SHR	Kcal/ KWh	2,378	2.378	2,378	eric programme in the contract of the contract
ŧ	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
u	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
¥	Normative Auxiliary Consumption	%	5.25	5.25	5.25	
N.	ECR for the Period= ((s-(txu))/(r)*(q/1000)/(1-v)	Rs/ KWh		- 1.521	1 712	
X	ECR as considered in Tariff order	Rs/ KWh		1.20	1.373	***************************************
V	Change in ECR (w-x)	Rs/ KWh		0.321	0.339	
7	Scheduled Generation during the Period	Kwh		524807000	466,385,000	
10	FCA Claim for the Period (yX z)	Rs		168463047	158104515	326,567,50

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