Computation of VCA Charges (5th bi-monthly period 2018-19)

(A) CHFC :-

Total	83577304	50382852	12006630	38600630	184567416
Jan-19	57923434	8749692	-537653	4968655	71104128
Dec-18	25653870	41633160	12544283	33631975	113463288
Month	KTPS	HTPS	DSPM TPS	Korba(W)Extn.	Total Amt. In Rs

(B) CHPP :-

H.

(i)	Total units purchased from NTPC and NSPCL	: 126,61,37,987 KWh
(ii)	Amount paid against units purchased	: Rs. 409,14,12.615
	Rate per unit	: Rs. 3.23 /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.0.11 /KWh
(v)	CHPP (in Rs.) (i)x(iv)	: Rs. 13,92,75,179
c.	Gross VCA (A+B) in Rs	: Rs.32,38,42,595
D.	Total quantum of power purchased during the period	: 480,84,52,659 Kwh
Ε.	Quantum of power purchased for sale to retail consumers of the State	: 399,87,84,309 KWh
F.	Allowable VCA (in Rs.)[C*(E/D)]	: Rs. 26,93,12,558
G.	Normative transmission & distribution losses as specified in Tariff order	: 16.54%

VCA Charge to be recoverable from monthly energy bills of various categories of consumers:

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

1	DLF consumers up to 40 units	Rs	0.08 per unit
2	DLF consumers 41 to 200 units		0.08 per unit
3	DLF consumers above 200 units		0.08 per unit
4	Agriculture Consumers		0.08 per unit
5	Rest all categories		0.08 per unit

To be recovered for the consumption in the months of March'19 and April'19 payable in the months of April'19 and May '19

Book

: Rs. 0.08/KWh

Computation of CHPP

Sno.	Particulars		
	Scheduled energy purchased from CGs during Fifth bi-monthly)W	1266137987
	period		
2	Amount paid against units purchased	Rs.	4091412615
	Average rate of power purchase	Rs/Kwh	3.23
~	Average rate of Power Purchase as per Tariff Order	Rs/Kwh	3.12
4	Difference in the average rate of PP	Rs/Kwh	0.11
. 2	CHPP/Change in the cost of power purchased from CGs)	Rs.	139275179

Computation of VCA

000	Darticulars			<u>پ</u>
310				C77 m C 1 7 C 7
	CHEC		Ks	18455/416
- 0			Rs	139275179
7	FIS.			200000000000000000000000000000000000000
(~	Gross VCA(sub total in Rs.)	CHFC+CHPP	Rs	323842595
,		Gross VCA(in Rs.)xQ _{ss} / _{ccc}	R _s	269312558
4	Allowable VCA(in KS.)			
		Allowable VCA(in Rs.)/[Qrs*(1-	Re/Kurh	0.08
മ	Allowable VCA(in Ks/Kwh)	5		2



(E) PGCL

CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Executive Director (C&RA)

NO. 03-09/ Bills-15//59

Raipur Dtd.

28-Feb-2019

To.

The Chief Engineer (RA&PM)

4th Floor Vidyut Seva Bhawan
CSPDCL, Raipur

NO. 8452

Sub: Fuel Cost Adjustment calculation for the 5th Bi-Monthly period of FY 2018-19.

ef:

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. 442,076,682 /- for the 5th Bi-Monthly period of FY 2018-19 (Dec-18 & Jan- 19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. Apr-19

55 (pm) 3 01/03/19 Jules

Executive Director (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.(EITC)CSPDCL, Raipur. Kindly upload the same in Company web site (cspc.co.in/cspgcl under the link Fuel Cost Adjustment- 5th Bi Monthly of FY 2018-19 (Dec -2018 to Jan- 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

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

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Fuel Cost Adjustment calculation for the 5th Bi-Monthly period of FY 2018-19.

All Figures in Rs.

Name of Plant	Dec-18	Jan-19	Total
(1)	25653870	57,923,434	83,577,304
HTPS	41633160	8,749,692	50,382,852
ISPM TPS	12544283	-537,653	12,006,630
KW Extn	33631975	4,968,655	38,600,630
MTTPS	182033145	75,476,121	257,509,266
Total	295,496,433	146,580,249	442,076,682

RUPEES FORTY FOUR CRORES TWENTY LAKHS SEVENTY SIX THOUSAND SIX HUNDRED EIGHTY TWO ONLY

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

All Figures in Rs.

	L/TOC	HTPS	DSPM TPS	KW Extn	MTTPS	Total
• nth	KTPS 44 700 CEO	27.424.424		19,300,315	128,754,633	221,038,341
Apr-19	41,788,652	37.404.400				221,038,341
May-19	41,788,652					
Total	83,577,304	50,382,852	12,006,630	20,000,030	201,000,000	

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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 Power Station : Korba (East) Thermal Power Station - KTPS

	Description	Unit	Considered in Tariff order	For Month of Dec- 18	For Month of Jan 19	Total for period
	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.065 702350	0.10610075	
I	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
(Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.066702350	0.106100750	
(Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
(Normative Transit & Handling Losses (cXd)	(MMT)		0.000767077	0.001220159	
	Net coal / Lignite Supplied (c-e)	(MMT)		0.065935273	0.104880591	
£	Amount charged by the Coal / Lignite Company	(Rs.)		111,194,190.70	176,905,035.85	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			18,795,828.92	
İ	Net amount Charged by Coal Company (g+h)	(Rs.)		111,194,190.70	195.700,864.77	
j	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1686.41	1865.94	
k	Rate of Bonus paybale to Coal Company	Rs/MT				
ı	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		1686.41	1865.94	46
m	Transportation Charge per Ton	Rs/MT	177.98	177.98	177.98	
n	Landed Price of Coal per MT (I+m)	Rs./MT	1,641.03	1864.39	2043.92	
0	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	2,930	2,863	
p	Normative SHR	Kcal/ KWh	3,110	3,110	3,110	11444
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	
ŧ	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		2.215	2.486	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1,855	1.855	
V	Change in ECR (t-u)	Rs/ KWh		0.360	0.631	
W	Scheduled Generation during the Period	KWh		71,260,750	91,796,250	
aa	FCA Claim for the Period (vXw)	Rs		25,653,870	57923433.75	83.577,30

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Details/Information for Computation of Energy Charge Rates

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

	of the Power Station : Korba (West) Thermal Po	Unit	Considered in Tariff order	For Month of Dec 18	For Month of Jan- 19	Total for period
•••	nantity of Coal / Lignite supplied by nal/Lignite Company	(MMT)		0.342370	0.394295	Harris and the second s
	justment (+/-) in quantity supplied made by al/Lignite Company	(MMT)				
c Co	al supplied by Coal/Lignite Company (a+b)	(MMT)		0.342370	0.394295	
d No	rmative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e No	rmative Transit & Handling Losses (cXd)	(MMT)		0.000684740	0.000788590	
f Ne	t coal / Lignite Supplied (c-e)	(MMT)		0.341685260	0.393506410	
	nount charged by the Coal / Lignite	(Rs.)		608051927.49		18.1
Ad	justment (+/-) in amount charged made by al/Lignite Company	(Rs.)			-3320394.84	
i Ne	t amount Charged by Coal Company (g+h)	(Rs.)		608051927.49	696,950,758.44	
	ste of Coal for the period Charged by Coal empany =(i/(f*10^6))	Rs/MT		1779.57	1771 13	
k Ra	ate of Bonus paybale to Coal Company	Rs/MT				
) Ne	et Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1779.57	1771.13	
m Tra	ansportation Charge per Ton	Rs/MT	80.75	80.75	80.75	
n La	nded Price of Coal per MT (I+m)	Rs./MT	1,690.52	1,860.32	1,851.88	
o Av	verage GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,462	3,678	
p No	ormative SHR	Kcall KWh	2,650.00	2,650	2,650	
q No	ormative Specific Oil Consumption	ml/ KWh	0.80	0.80	0.80	2
rGC	CV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
No	ormative Auxiliary Consumption	%	9.70	9.70	9.70	
	CR for the Period= o-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.572	1.473	
	CR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
V CF	nange in ECR (t-u)	Rs/ KWh		0.120	0.021	
w Ne	et Generation during the Period	KWh		346,943,000	416,652,000	
	CA Claim for the Period (vXw)	Rs		41633160	8749692	50,382,8

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

	Description	Unit	Considered in Tariff order	For Month of Dec- 18	For Month of Jan- 19	Total for period
а	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.14843697	0.17376241	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.14843697	0.17376241	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	l	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000296874	0.000347525	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.148140096	0.173414885	
g	Amount charged by the Coal / Lignite Company	(Rs.)		268492419.96	311,105,899.96	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		6,605,892.25	13,645,596.06	
ī	Net amount Charged by Coal Company (g+h)	(Rs.)		275,098,312.21	324,751,496 02	
j	Rate of Coal for the period Charged by Coal Company =(V(fX10^6))	Rs/MT		1857.01454	1872.685243	
k	Rate of Bonus paybale to Coal Company	Rs/MT				
ī	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		1857.01454	1872.685243	
m	Transportation Cost Paid to railways	Rs		36794382.00	46679671	
n	Transportation Charge rate paid to Railways (m/(0X10*6))	Rs/MT		248.38	269.18	
0	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			248.38		
q	Landed Price of Coal per MT ((I+p)	Rs./MT	1,921.22	2105 39	2141 87	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3681.00	3852.44	
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	
٧	Normative Auxiliary Consumption	%	9.00	~9.00	9.00	
W	ECR for the Period= ((s-(txu))/(r)*(q/1000)/(1-v)	Rs/ KWh		1.568	1.524	
×	ECR as considered in Tariff order	Rs/ KWh	1.527	1.52	7 1.527	1
у	Change in ECR (w-x)	Rs/ KWh		0.04	-0.003	3
z	Scheduled Generation during the Period	Kwh		305,958,120	179,217,500	}
aa		Rs		12544282.93	2 -537,653	12,006,63

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Details/Information for Computation of Energy Charge Rates

ame of the Company : Chhattsigarh State Power Generation Company Limited

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

	of the Power Station : - 1x500 MW KW Extn Description		Considere d in Tariff order	For Month of Dec- 18	For Month of Jan- 19	Total for period
lo	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.168630	0.194205	
h A	adjustment (+/-) in quantity supplied made by coal/Lignite Company	(MMT)				
c C	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.168630		
dr	Normative Transit & Handling Losses	%	0.20%			
el	Normative Transit & Handling Losses (cXd)	(MMT)		0.000337260	0.000388410	
r	Net coal / Lignite Supplied (c-e)	(MMT)		0.168292740	0.193816590	
	Amount charged by the Coal / Lignite	(Rs.)		299,488,262.85	344,909,672.42	
	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)			-1635418.31	
-	Net amount Charged by Coal Company (g+h)	(Rs.)		299488262.85		
	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1779.57	1771,13	
	Rate of Bonus paybale to Coal Company	Rs/MT				
1	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1779.57	1771.13	
m	Transportation Charge per Ton	Rs/MT ·	80.75	80.75	THE TRANSPORTS AND THE PROPERTY OF THE PARTY	
	Landed Price of Coal per MT (I+m)	Rs./MT	1,690.52	1,860.32	1,851.88	
1	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,466	3,678	
	Normative SHR	Kcal/ KWh	2,375	2,375	2,375	
· a	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
• •	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	7/3
- 1	Normative Auxiliary Consumption	%	5.28	5.25	5.25	
344	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.34	3 1,25	9
11	ECR as considered in Tariff order	Rs/ KWh	1.243	3 1.243	1.243	3
	Change in ECR (t-u)	Rs/ KWh		0.	1 0.01	6
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Scheduled Generation during the Period	KWh		336,319,75	0 310,540,94	0
ı W	FCA Claim for the Period (vXw)	Rs		3363197		5 38,600,6

Details/Information for Computation of Energy Charge Rates

	ame of the Power Station ; Marwa Thermal Power Plant Month	Unit	Considered in Tariff order	For Month of Dec-	For Month of Jan-19	Total for perio
a b	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	•	0.32497003	0.31730023	
	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	•	0.00003856		
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.32500859	0.31730023	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0 002600069	0.002538402	
ſ	Net coal / Lignite Supplied (c-e)	(MMT)		0.322408521	0.314761828	
ğ	Amount charged by the Coal / Lignite Company	(Rs.)		713290326.75	702586336.16	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		4,035,951.88	-6.013,464.13	
-	Net amount Charged by Coal Company (g+h)	(Rs.)		717326278.63	696572872.03	
j	Rate of Coal for the period Charged by Coal Company =(i/(fX10^6))	Rs/MT		2224.90	2213.02	
k	Rate of Bonus paybale to Coal Company	Rs/MT				
	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		2224.9	2213 02	
n	Transportation Cost Paid to railways	Rs		79865631.00	78837989 00	
1	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		247.72	250.47	
,	Other Charges (per Ton) towards transportation	Rs/MT				· · · · · · · · · · · · · · · · · · ·
	Total per ton Transportation Charges (n+o)			247.72		
	Landed Price of Coal per MT ((I+p)	Rs./MT	1,535		250 47	
	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	2,472.62	2,463	
	Normative SHR	Kcal/ KWh	2,378	3,598 2,378	3,701	
1	Normative Specific Oil Consumption	ml/ KWh	0.50		2,378	
	GCV of Secondary Fuel (Oil)	Kcal/mi	10	0.50	0.50	
-	Normative Auxiliary Consumption	%	5.25	10	10	
	700 (- II - B -)	Rs/ KWh	0.20	5.25	5.25	
((s-(txu))/(r)*(q/1000)/(1-v)			1.721	1.667	
-		Rs/ KWh	1.373	1.373	1.373	
		Rs/ KWh		0.348	0.294	
-	cheduled Generation during the Period	Kwh		523,083,750	256,721,500	
F	CA Claim for the Period (yX z)	Rs		182033145	75476121	257,509,266

Computation of Qpp and Qrs

S No	Particulars		T	_
1	Quantum of actual power purchased from CSPGCL therma Power stations	Q ₁	2838493560	Kw
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	Q ₂	10380734	Kw
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL CoGen Kawardha)	122	2404720	Kw
4	Quantum of scheduled power purchased from CGs at state periphery (CSPTrdCL+NTPC+NSPCL+NPCIL+OHPCL+NHPCL+Bundle Power+SECI)	Q ₄	1638134793	Kwi
5	PGCIL actual losses for the bi-monthly period	L1	2.86%	
6	Quantum of scheduled power purchased from CGs at state periphery	Q ₅ =Q ₄ (1-L1)	1591284138	Kwh
7	Quantum of actual power purchased from Renewable energy Sources	Q ₆	208538350	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 (IEX)	Q ₈	124886200	KwH
10	Quantum of scheduled short term purchased through interstate route at the State periphery	Q ₉ =Q ₈ (1-L1)	121314455	KwH
11	Quantum of power purchased from other Sources(if any)(Short term + Border Village+Un schduled)	Q ₁₀	36036702	KwH
12	Total Quantum of power purchased	$Q_{PP} = Q_1 + Q_2 + Q_3 + Q_5 + Q$ $_6 + Q_7 + Q_9 + Q_{10}$	4808452659	KwH
.3	Normative transmission and distribution losses as specified inth Tariff order	L	16.54%	=
	Quantum of power scheduled for interstate sale(Sale through IEX+Sale to Telangana)	Q _{PT}	809668350	KwH
5	Quantum of power purchased for sale to retail consumers of the State	$Q_{RS} = Q_{PP} - Q_{PT}$	3998784309	KwH

