Computation of VCA Charges (1st bi-monthly period 2019-20)

(A) CHFC :-

KTPS	HTPS	DSPM TPS	Korba(W) Extn.	Total Amount in Rs.
21 12 406	62.86.335	3,60,72,976	49,52,742	4,94,24,459
1		2,56,79,120	3,70,86,329	11,73,87,814
			4,20,39,071	16,68,12,273
	21,12,406 97,56,378 1,18,68,782	21,12,406 62,86,335 97,56,378 4,48,65,987	21,12,406 62,86,335 3,60,72,976 97,56,378 4,48,65,987 2,56,79,120	21,12,406 62,86,335 3,60,72,976 49,52,742 97,56,378 4,48,65,987 2,56,79,120 3,70,86,329

CHPP :-(B)

(i)	Total units purchased from NTPC and NSPCL	1,33,93,22,750 KWh
(1)	Para and a second	

(ii) Amount paid against units purchased	Rs. 460,22,73,454
--	-------------------

	: Rs. 3 44 /KW
Rate per unit	

(iii)	Average rate approved by CSERC for purchase of power from Central generating stations(NTPC & NSPCL	; Rs. 3.11 /KWh	
	over the A		

	only)	: Rs.0.33 /KWh
(iv)	Diff. in rate (ii-iii)	. RS.0.55 /KWII

D.	Total quantum of power purchased during the period	: 5,54,42,22,628 Kwh
E.	Quantum of power purchased for sale to retail	: 5,37,56,13,388 KWh

1000		
	consumers of the State	
		: Rs. 59,02,74,478
C	Allowable VCA (in Rs.)[C*(E/D)]	

G.	Normative transmission & distribution losses as specified	16.58%
	in Tariff order	: Rs. 0.13 per KWh
H.	Allowable VCA Charges(Rs./Kwh) (F/E*(1-G))	; Rs. 0.13 per Kwii

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

		Rs.	0.13 per unit
1	DLF consumers	Rs.	0.13 per unit
2	Agriculture Consumers		0.13 per unit
3	Rest all categories	113	0.10 per

To be recovered from energy bill for the consumption in the months of July'19 and August'19 payable in the months of August'19 and Sep'19.

: 5,54,42,22,628 Kwh

Computation of CHPP

S.No.	Particulars		
-	Scheduled energy purchased from CGs during 1st bi-monthly period	Kwh	1,33,93,22,750
2	Amount paid against units purchased	Rs.	4,60,22,73,454
က	Average rate of power purchase	Rs./Kwh	3.44
4	Average rate of Power Purchase as per Tariff Order	Rs./Kwh	
2	Difference in the average rate of PP	Rs./Kwh	0.33
မ	CHPP(Change in the cost of power purchased from CGs)	Rs.	441976508

Computation of VCA (1st Bi-monthly period of FY 2019-20)

1 CHFC Rs. 1 2 CHPP Rs. 4 3 Gross VCA(sub total in Rs.) Rs. 66 4 Allowable VCA(in Rs.) Rs. 56 5 Allowable VCA(in Rs/Kwh) (in Rs.)/[Qrs*(1-L)] Rs/Kwh	S.No.	Particulars		- Second	
CHPP Rs. Gross VCA(sub total in Rs.) CHFC+CHPP Rs. Allowable VCA(in Rs.) Allowable VCA Rs. Allowable VCA(in Rs/Kwh) (in Rs.)/[Qrs.*(1-L)] Rs/Kwh	-	CHFC		Rs.	166812273 4
Gross VCA(sub total in Rs.) CHFC+CHPP Rs. Allowable VCA(in Rs.) Gross VCA (in Rs.)xQ _{rs.} / _{Qpp} Rs. Allowable VCA(in Rs/Kwh) (in Rs.)r[Qrs*(1-L)] Rs/Kwh	2	СНРР		Rs.	441976508
Allowable VCA(in Rs/Kwh) Allowable VCA(in Rs/Kwh) Allowable VCA(in Rs/Kwh) Rs/Kwh (in Rs.)/[Ors*(1-L)]	က	Gross VCA(sub total in Rs.)	CHFC+CHPP	Rs.	608788781
Allowable VCA(in Rs/Kwh) (in Rs.)/[Qrs*(1-L)]		Allowable VCA(in Rs.)	Gross VCA (in Rs.)xQ _{RS} / _{Qpp}	Rs.	590274478
	တ	Allowable VCA(in Rs/Kwh)	Allowable VCA (in Rs.)/[Qrs*(1-L)]	Rs/Kwh	0.13 V





Computation of Qpp and Qrs (1st Bi-monthly of FY 2019-20)

No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	Q ₁	2818638000	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	Q ₂	40715418	KwH
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL +	Q ₃	7168140	KwH
4	CoGen Kawardha) Quantum of scheduled power purchased from CGs at state periphery (CSPTrdCL+NTPC+NSPCL+NPCIL+OHPCL+NHPCL+Bundle	Q ₄	1782312090	
5	Power+SECI) PGCIL actual losses for the bi-monthly period	<u>u</u>		
6	Quantum of scheduled power purchased from CGs at state periphery	Q ₅ =Q ₄ (1-L1)	1723852253	KwH
7	Quantum of actual power purchased from Renewable energy Sources	Q ₆	233539836	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	264253890	KwH
10	Quantum of scheduled short term purchased through inter- state route at the State periphery (IEX)	Q ₉ =Q ₈ (1-L1)	255586362	KwH
11	Quantum of power purchased from other Sources(if	Q ₁₀	464722619	KwH
12	f awar nurchased	$Q_{pp} = Q_1 + Q_2 + Q_3 + Q_5 + Q_6 + Q_7 + Q_9 + Q_{10}$	5544222628	KwH
13	lin the Tariff order	L	16.58%	
14	lebrough IFX+Sale to Telangana)	QpT	168609240	Kwi
1	Quantum of power purchased for sale to retail consumers of	Q _{RS} =Q _{PP} -Q _{PT}	5375613388	Kwi

Board



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Executive Director (C&RA)

NO. 03-09/ Bills-15/ 435

140. 03-03/ DHIS-13/ -13-

Raipur Dtd.

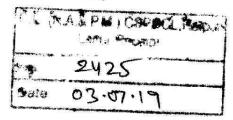
29-Jun-2019

To,

The Chief Engineer (RA&PM)

4th Floor Vidyut Seva Bhawan

CSPDCL, Raipur



Sub: 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. 370,522,398 /- for the 1st Bi-Monthly period of FY 2019-20 (April-19 & May-19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. Aug-19

Fuel Cost Adjustment calculation for the 1st Bi-Monthly period of FY 2019-20.

55(bea) 8

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- 1st Bi Monthly of FY 2019-20 (Apr-2019 to May-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



Fuel Cost Adjustment calculation for the 1st Bi-Monthly period of FY 2019-20.

All Figures in Rs.

Name of Plant	Apr-19	May-19	Total
KTPS	2112406	9,756,378	11,868,784
HTPS	6286335	44,865,987	51,152,322
DSPM TPS	36072976	25,679,120	61,752,096
KW Extn	4952742	37,086,329	42,039,071
MTTPS	125456219	78,253,906	203,710,125
Total	174,880,678	195,641,720	370,522,398

RUPEES THIRTY SEVEN CRORES FIVE LAKHS TWENTY TWO THOUSAND THREE HUNDRED NINETY EIGHT ONLY

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

All Figures in Rs.

and the same of the same		HTPS	DSPM TPS	KW Extn	MTTPS	Total	
Month	183.2		30,876,048	21.019.536	101,855,063	185,261,200	
Aug-19	5,934,392				1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Sep-19	5,934,392	25,576,161	30,876,048				
Watal	11.868.784	51,152,322	61,752,096	42,039,071	203,710,125	370,522,398	

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FORMAT-

Details/Information for Computation of Energy Charge Rates
Name of the Company: Chhattsigerh 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 April-19	For Month of May-	Total for period
-	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.118962900	0.099829700	
t	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)		a a a a a a a a a a a a a a a a a a a		
(Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.118962900	0.099829700	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001368073	0.001148042	
1	Net coal / Lignite Supplied (c-e)	(MMT)		0.117594827	0.098681658	
g	Amount charged by the Coal / Lignite Company	(Rs.)		198,350,493.25	166,449,121.70	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	The state of the s	-6,030, 99 6. 8 5		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		192,319,496.40	166,449,121.70	
*	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1635.44	1686.73	. 1658.8
k	Rate of Bonus paybale to Coal Company	Rs/MT				
1	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		1635.440	1686.730	
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	1813.42	1864.71	1836.8
0	Average GCV of coal / Lignite as fired	(kCal/Kg)	. 3,080.85	3,366	3,344	3,354
p	Normative SHR	Kcall 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	
	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.876	1.941	1.907
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/KWh		0.021	0.086	
w	Scheduled Generation during the Period	KWh		100,590,750.00	113,446,250.00	9 e 94
aa	FCA Claim for the Period (vXw.)	Rs		2,112,406	9,756,378	11.868.784



FORMAT-

Details/Information for Computation of Energy Charge Rates

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

	e of the Power Station : Korba (West) Thermal Po	Unit	Considered in Tariff order	For Month of April-19	For Month of May-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.357110	0.351080	-
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.357110	0.351080	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	02
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000714220	0.000702160	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.356395780	0.350377840	
g	Amount charged by the Coal / Lignite Company	(Rs.)		634230288.32	623520958.92	0 0 1824 30 3
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		2357990.72		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		636588279.04	623520958.92	
j	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1786.18	1779.57	1782.9
k	Rate of Bonus paybale to Coal Company	Rs/MT				=0 (0) (2) == ==================================
1	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1786.18	1779.57	1782.9
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	1,866.93	1,860.32	1,863.65
0	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,711	3,435	3,562
р	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		1.472	1.585	1.53
u	ECR as considered in Tariff order	Rs/ KWh	1.452	_ 1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.020	0.133	
w	Net Generation during the Period	KWh		314,316,750.00	337,338,250.00	
	FCA Claim for the Period (vXw)	Rs	l	6286335	44865987	51,152,32

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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 : - 1x500 MW KW Extr

	Description	Unit	Considere d in Tariff order	For Month of April- 19	For Month of May- 19	Total for period
а	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.175890	0.172920	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)		A THE STATE OF THE		*
C	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.175890	0.172920	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
е	Normative Transit & Handling Losses (cXd)	(MMT)		0.000351780	0.000345840	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.175538220	0.172574160	
g	Amount charged by the Coal / Lignite Company	(Rs.)		312,382,082.34	307,107,337.98	E.
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		1161398.44		
i	Net amount Charged by Coal Company (g+h)	(Rs.)		313543480.78	307107337.98	
j	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1786.18	1779.57	1782.9
k	Rate of Bonus paybale to Coal Company	Rs/MT		7		=
i	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1786.18	1779.57	
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	1,866.93	1,860.32	1863.6
0	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,713	3,435	3,587
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	
8	Normative Auxiliary Consumption	%	5.25	5.25	5.25	
200	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/KWh		1.258	1.355	1.30
		Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.015	0.112	
w	Scheduled Generation during the Period	KWh		330,182,810.00	331,127,940.00	
v	FCA Claim for the Period (vXw)	Rs		4,952,742	37,086,329	42,039,071



FORMAT-I

Details/Information for Computation of Energy Charge Rates

Name of the Company: Chhattsigarh State Power Generation Company Limited

FCA Claim for the Period (yX z)

Name of the Power Station : Dr. Shyama Prasad Mukharjee Thermal Power Station - DSPM TPS Considered For Month of April- For Month of May-Total for period Unit in Tariff Description order 0.15401213 0.18468986 (MMT) Quantity of Coal / Lignite supplied by Coal/Lignite Adjustment (+/-) in quantity supplied made by (MMT) Coal/Lignite Company 0.18468986 0.15401213 (MMT) Coal supplied by Coal/Lignite Company (a+b) 0.20% Normative Transit & Handling Losses 0.20% 0.20% 0.000369380 0.000308024 (MMT) Normative Transit & Handling Losses (cXd) 0.184320480 0.153704106 0.338024586 (MMT) Net coal / Lignite Supplied (c-e) 332466042.15 290254034.58 (Rs.) Amount charged by the Coal / Lignite Company 620,965.08 -3,528,607.86 Adjustment (+/-) in amount charged made by (Rs.) Coel/Lignite Company 333,087,007.23 286,725,426.72 (Rs.) Net amount Charged by Coal Company (g+h) 1807.11 1865.44 1833.63 Rs/MT Rate of Coal for the period Charged by Coal Company =(V(0X10^6)) Rate of Bonus paybale to Coal Company Rs/MT 1865,44 1807.11 Rs/MT Net Rate of coal paybale to coal compnay (j+k) 85156222.9 38763495.00 Rs 46392727.96 Transportation Cost Paid to railways m 251.92 251.70 252.20 Rs/MT Transportation Charge rate paid to Railways (m/(fX10^6)) Other Charges (per Ton) towards transportation Rs/MT 252.20 251.70 Total per ton Transportation Charges (n+o) 2058.81 2117.64 2,085.55 Landed Price of Coal per MT ((I+p) Rs./MT 1,921.22 3,449.20 3609.14 3518.77 Average GCV of coal / Lignite as fired (kCal/Kg) 3430.41 Kcal/ KWh 2.500 Normative SHR 2,500 2,500 ml/ KWh 0.50 0.50 Normative Specific Oil Consumption 0.50 Kcal/ml GCV of Secondary Fuel (Oil) 10.00 10.00 10.00 u Normative Auxiliary Consumption 9.00 9.00 9.00 1.609 Rs/ KWh 1.646 1.625 ECR for the Period= ((s-(txu))/(r)*(q/1000)/(1-v) ECR as considered in Tariff order Rs/ KWh 1.527 1.527 0.119 0.082 Rs/ KWh Change in ECR (w-x) Scheduled Generation during the Period Kwh 303,134,250.00 313,160,000

Rs



36072975.75

All

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