Computation of VCA Charges (3rd bi-monthly period

(A) CHFC :-

	KTPS	HTPS	DSPM TPS	Korba(W)Extra.	
Aug. 18	41631582	45189837	7374132	13749324	107944675
Sep. 18	51923953	54100568	17171000	34909973	158105434
Total	93555535	99290406	24545132	48659297	2660503 69

(B) CHPP :-

Total units purchased from NTPC and NSPCL 1322814115 KWh

Rs. 4050698270.00 Amount paid against units purchased

Rs. 3.06 /KWh Rate per unit(I)

Average rate approved by CSERC for purchase of

power from Central generating stations (II) Rs. 3.12 /KWh

Difference in rate (I-II)

CHPP (in Rs.)

Rs.186681522.00 Gross VCA (A+B) in Rs.

5703735921 Kwh Total quantum of power purchased during the period (D)

Quantum of power purchased for sale to retail consumers

4693178701 KWh of the State

Rs.153606295.00 Allowable VCA (in Rs.)[C*(E/D)]

Normative transmission & distribution losses as specified in

(G) Tariff order 16.54%

(H) Allowable VCA Charges(Rs./Kwh) (F/E*(1-G)) Rs.0.04/KWh

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

Rs. 0.04 per unit 1) DLF consumers up to 40 units

Rs. 0.04 per unit 2) DLF consumers 41 to 200 units

- Rs. 0.04 per unit 3) DLF Consumers above 200 units

Rs. 0.04 per unit 4) Agriculture Consumers

Rs. 0.04 per unit 5) Rest all categories

To be recovered for the consumption in the months of Nov'18 and Dec'18 payable in the months of Dec'18 and Jan'19



Rs. -0.06 /KWh

Rs.-79368847.00

Computation of Qpp qand Qrs

S No.	Particulars Particulars			0.000
1	Quantum of actual power purchased from CSPGCL thermal Power stations	$\mathbf{Q_i}$	3424598940	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	Q ₂	107106267	KwH
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL)	Q ₃	11339360	KwH
4	Quantum of scheduled power purchased from CGs at state periphery (Trd.(Through I C. CTU)4NTPC+NSPCL+NPCIL+OHPCL+NHPCL)+Bundle Power+SECI)	Q ₄	1723256354	KwH
5	PGCIL actual losses for the bi-monthly period	L1	3.24%	
6	Quantum of scheduled power purchased from CGs at state periphery	Q ₅ =Q ₄ (1-L1)	1667422848	KwH
7	Quantum of actual power purchased from Renewable energy Sources	Q ₆	168189954	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	95740820	KwH
10	Quantum of scheduled short term purchased through interstate route at the State periphery	Q ₉ =Q ₈ (1-L1)	92638817	KwH
11	Quantum of power purchased from other Sources(if any)(Short term + Border Village+Un schduled)	Q_{10}	232439734.4	KwH
12	Total Quantum of power purchased	$Q_{\rho\rho} = Q_1 + Q_2 + Q_3 + Q_5 + Q_6 + Q_7 + Q_9 + Q_{10}$	5703735921	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)	$Q_{ m pT}$	1010557220	KwH
15	Quantum of power purchased for sale to rtetail consumers of the State	$Q_{RS} = Q_{PP} - Q_{PT}$	4693178701	KwH

Computation of CHPP

1 Scheduled energy purchased from CGs during Third bi-monthly period	MU	1322814115
ed energy purchased from CGs during Third bi-monthly	MU	1322814115
- Posid against units purchased	,	-
hazid against units nurchased		
	Rs.	4050698270
of or payment payments	Rs/Kwh	3.06
Avelage rate of power parchase		
rate of Power Purchase as per Tariff Order	Rs/Kwh	3.12
the mission of the	Rs/Kwh	90.0-
ice ill life average rate of ri		
Change in the cost of power purchased from CGs)	Rs.	-79368847
01215	Average rate of Power Purchase as per Taritt Order Difference in the average rate of PP CHPP(Change in the cost of power purchased from CGs)	CGs)

Computation of VCA

	Darticulars			
SHO.	7 12 22 22 22 22 22 22 22 22 22 22 22 22		ď	Decreped
٠			KS	2000000000
-			Ċ	7000007
c	מחט		RS RS	-/ 200004/-
V				700004600
c	Cross VCA/sub total in Re V	CHEC+CHPP	KS.	770100001
ว	1033 VO (1022 COCI III COC)		Ġ	46262626
-	Allowable VOA(in Be)	Gross VCA(in Rs.)xQrs/qrp	ΥS	132000533
1	Allowable Von III 133.			
		Allowable VCA(in Rs.)/[Ors*(1-	Re/Kwh	0.04
ഗ	Allowable VCA(in Rs/Kwh)	<u> </u>		
Annual Control of the Party of				



C P C C L

CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED

(A Govt. of C.G. Undertaking)

Office of the Executive Director (C&CP)

NO: 03-09/ Bills-15/ 5 9 (

Raipur Dtd.

29-Oct-2018

To,

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

CL (RAS PM) CSPDCL Ren.

LAMPET RECONSTRUCTION

S 395

Date: 291010

Sub:

Fuel Cost Adjustment calculation for the 3rd 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. 371,882,717 /- for the 2nd Bi-Monthly period of FY 2018-19 (Aug-18 & Sep- 18). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. Dec-18

25 (00) I 29 10/18

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. 23/05/2045.
- 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- 3rd Bi Monthly of FY 2018-19 (Aug-2018 to Sep- 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

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S. Tigga

Fuel Cost Adjustment calculation for the 3rd Bi-Monthly period of FY 2018-19.

All Figures in Rs.

Name of Plant	Aug-18	Sep-18	Total
KTPS	41631582	51,923,953	93,555,535
HTPS	45189837	54,100,568	99,290,405
DSPM TPS	7374132	17,171,000	24,545,132
KW Extn	13749324	34,909,973	48,659,297
MTTPS	-22712323	128,544,671	105,832,348
Total	85,232,552	286,650,165	371,882,717

RUPEES THIRTY SEVEN CRORES EIGHTEEN LAKHS EIGHTY TWO THOUSAND SEVEN HUNDRED SEVENTEEN ONLY

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
	46,777,768	10.010.000	12,272,566	24.329.649	52,916,174	185,941,360
Dec-18					52,916,173	185,941,350
→ Jan-19	46,777,768					371,882,716
Total	93,555,536	99,290,405	24,545,131	48,659,297	103,632,347	3, 2,002,72

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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

	Description	Unit	Considered in Tariff order	For Month of Aug-18	For Month ofSept- 18	Total for period
	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.176416170	0.142038500	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)	Programma Acril M. NICCO (1871) Annoy C. Co. (1871)	0,176416170		
d	Normative Transit & Handling Losses	%	1.15%	1,15%		
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002028786		
n	Net coal / Lignite Supplied (c-e)	(MMT)		0.174387384		
g	Amount charged by the Coal / Lignite Company	(Rs.)		295,294,377.69		
	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.00		
oon.	Net amount Charged by Coal Company (g+h)	(Rs.)		295,294,377.69		<u> </u>
j	Rate of Coal for the period Charged by Coal Company =(i/(f*10^6))	Rs/MT		1693.32	1718.98	
k	Rate of Bonus paybale to Coal Company	Rs/MT	•			
1	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		1693.32		
m	Transportation Charge per Ton	Rs/MT	177.98	177.98	177.98	<u> </u>
n	Landed Price of Coal per MT (I+m)	Rs./MT	1,641.03	1871.3		
0	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,005	2,817	
p	Normative SHR	Kcal/ KWh	3,110	3,110		
q	Normative Specific Oil Consumption	mV KWh	2.00	2.00	2.00	
r	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10		
S	Normative Auxiliary Consumption	%	11.25	11.25	A CONTRACTOR OF THE PARTY OF TH	
t	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/KWh		2.168		
μ	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855		
٧	Change in ECR (t-u)	Rs/ KWh		0.313		
W	Scheduled Generation during the Period	KWh		133,008,250		
na.	FCA Claim for the Period (vXw)	Rs		41,631,582	51923952.5	93,555,53

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 (West) Thermal Power Station - HTPS Considered For Month of Aug For Month ofSept-Total for period in Tariff Unit Description order a Quantity of Coal / Lignite supplied by (MMT) 0.259558 0.336340 Coal/Lignite Company b Adjustment (+/-) in quantity supplied made by (MMT) Coal/Lignite Company 0.336340 0.259558 c Coal supplied by Coal/Lignite Company (a+b) (MMT) 0.20% 0.20% % d Normative Transit & Handling Losses 0.20% 0.000519116 0.000672680 e Normative Transit & Handling Losses (cXd) (MMT) 0.259038884 0.335667320 (MMT) f Net coal / Lignite Supplied (c-e) 460977136.35 597342597.97 (Rs.) Amount charged by the Coal / Lignite Company Adjustment (+/-) in amount charged made by (Rs.) Coal/Lignite Company 460,977,136.35 597342597.97 Net amount Charged by Coal Company (g+h) (Rs.) 1779.57 1779.57 Rate of Coal for the period Charged by Coal Rs/MT Company =(i/(f*10^6)) k Rate of Bonus paybale to Coal Company Rs/MT 1779.57 1779.57 Rs/MT Net Rate of coal paybale to coal compnay (j+k) 1,609.77 80.75 Rs/MT 80.75 80.75 m Transportation Charge per Ton 1,860.32 1,860.32 n Landed Price of Coal per MT (I+m) Rs./MT 1,690.52 3,442 (kCal/Kg) 3,509 3,406.33 Average GCV of coal / Lignite as fired 2,650 2.650 Kcall KWh 2,650.00 Normative SHR 0.80 Normative Specific Oil Consumption ml/ KWh 0.80 0.80 10 10 Kcal/ml 10 GCV of Secondary Fuel (Oil) 9.70 9.70 0% S Normative Auxiliary Consumption 9.70 1.581 1.551 Rs/ KWh ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s) 1.452 Rs/ KWh 1.452 u ECR as considered in Tariff order 1.452 0.129 0.099 Rs/ KWh V Change in ECR (t-u) 419,384,250 KWh Net Generation during the Period 456,463,000 99,290,405 54100568 45189837 FCA Claim for the Period (vXw) Rs

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Details/Information for Computation of Energy Charge Rates in State Power Generation Company Limited

T	of the Power Station : - 1x500 MW KW Extn Description	Unit	Considered in Tariff order	For Month of Aug- 18	For Month ofSept- 18	Total for period
1	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.165660	0.127842	
17	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)			0.127842	
. (Coal supplied by Coal/Lignite Company (a+b)	(MMT)	530 55 415	0.165660		
- 1	Normative Transit & Handling Losses	%	0.20%	Proprocessial Contractor	0.20%	
- 1	Normative Transit & Handling Losses (cXd)	(MMT)		0.000331320	0.000255684	
- 1	Net coal / Lignite Supplied (c-e)	(MMT)	5	0.165328680	0.127586316	5
g	Amount charged by the Coal / Lignite	(Rs.)		294,213,518.47	227,048,440.37	
1	Company Adjustment (+/-) in amount charged made by	(Rs.)				
-	Coal/Lignite Company Net amount Charged by Coal Company (g+h)	(Rs.)		294213518.47		
- 1	Rate of Coal for the period Charged by Coal	Rs/MT		1779.57	1779.5	
ı,	Company =(i/(f*10^6)) Rate of Bonus paybale to Coal Company	Rs/MT				
	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT	1,609.77	1779.5	1779.5	<u> </u>
	Transportation Charge per Ton	Rs/MT	80.75	80.75	* Programme in the contract of	
000	Landed Price of Coal per MT (I+m)	Rs./MT	1,690.52	1,860.32		2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,568	3,43	3
	Normative SHR	Kcal/ KWh	2,375	2,375	2,375	5
<u> </u>	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.5)
4	GCV of Secondary Fuel (Oil)	Kcal/ml	10) 10) 1	0
	Normative Auxiliary Consumption	%	5.2	5.25		
1	ECR for the Period= ((p-(qxr))/(0)*(n/1000)/(1-s)	Rs/ KWh		1.30		
1	ECR as considered in Tariff order	Rs/ KWh	1.24			
1	Change in ECR (t-u)	Rs/ KWh		0.06		
33	Scheduled Generation during the Period	KWh		225,398,75		
	FCA Claim for the Period (vXw.)	Rs		13749323.7	75 34,909,9	73 45,00

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

Landed Price of Coal per MT ((I+p)

Normative Specific Oil Consumption

Normative Auxiliary Consumption

Scheduled Generation during the Period

FCA Claim for the Period (yX z)

GCV of Secondary Fuel (Oil)

((s-(bxu))/(r)*(q/1000)/(1-v) ECR as considered in Tariff order

Normative SHR

ECR for the Period=

Change in ECR (w-x)

y

aa

Average GCV of coal / Lignite as fired

	Description	Unit	Considered in Tanff order	For Month of Aug- 18	For Month ofSept- 18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company			0.15836138	0.20300891	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
C	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.15836138	0.20300891	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	<u> </u>
e	Normalive Transit & Handling Losses (cXd)	(MMT)		0.000316723	0.000406018	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.158044657	0.202602892	
g	Amount charged by the Coal / Lignite Company	(Rs.)		287181728.63	372,612,245.41	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		3,764,240.32	-730,998.42	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		290,945,968.95	371,881,246.99	
j	Rate of Coal for the period Charged by Coal Company =(i/(fX10^6))	Rs/MT		1840.90987	1835.51796	***************************************
k	Rate of Bonus paybale to Coal Company	Rs/MT				
ı	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT		1840.90987	1835.51796	
m	Transportation Cost Paid to railways	Rs		35093172.00	46634812	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		222.05	230.18	
0	Other Charges (per Ton) towards transportation	Rs/MT			- I	
р	Total per ton Transportation Charges (n+o)	****		222.05	230.18	

1,921.22

3,449.20

2,500

0.50

10.00

9.00

1.527

Rs./MT

(kCal/Kg)

Kcal/ KWh

ml/ KWh

Kcal/ml

Rs/ KWh

Rs/ KWh

Rs/ KWh

Kwh

Rs

2062.96

3646.00

2,500

0.50

10.00

9.00

1.551

1.527

0.024

307,255,500

7374132

2065.70

3577.77

2,500

0.50

10.00

9.00

1.583

1.527

0.056

306,625,000

17,171,000

24,545,132

	Details/Information	n for Computa	tion of Energy Limited	Charge Rates		
	of the Company: Chhattsigarh State Power Generation	on Company i	Lamed			
T	to of the Company: Critation and Thermal Power Plant - Month	Unit	Considered in Tariff	1 01 11 11 11 11 11	For Month ofSept- 18	Total for period
		<u> </u>	order	0.33977519	0.32763057	
	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)				
	Adjustment (+/-) in quantity supplied made by	(MMT)	•	0.33977519	0.32763057	
4	Coal supplied by Coal/Lignite Company (a+b)	(MMT)			0.80%	
٥	Normative Transit & Handling Losses	%	0.80%	0.80%		
d .	Normative Transit & Handling Lossos (cYd)	(MMT)		0.002718202	0.002621045	
	Normative Transit & Handling Losses (cXd)	(MMT)		0.337056988	0.325009525	
f	Net coal / Lignite Supplied (c-e)	1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	671680981.66	662149273.25	
g	Amount charged by the Coal / Lignite Company	(Rs.)		-106,127,847.86	1	1
h	Adjustment (+/-) in amount charged made by	(Rs.)		-1		1
	Coal/Lignite Company	(Rs.)		565553133.80	638269619.6	1
i	Net amount Charged by Coal Company (g+h)	Rs/MT		1677.93	1963.8	5
j	Rate of Coal for the period Charged by Coal Company =(i/(fX10^6))					
k	Rate of Bonus paybale to Coal Company	Rs/MT		1677.9	1963.8	5
- 1	Net Rate of coal paybale to coal compnay (j+k)	Rs/MT				o o
	Transportation Cost Paid to railways	Rs		76048148.0	<u> </u>	
m	Transportation Charge rate paid to Railways	Rs/MT	,	225.6	2 251.0	
15	(m/(fX10^6))	Rs/MT				
0	Other Charges (per Ton) towards transportation			225.6	231.8	37
p	Total per ton Transportation Charges (n+o)	Rs./MT	1,53	5 1,903.5	4 2,19	6
q	Landed Price of Coal per MT ((l+p)					6
r	COV of coal / Lignite as fired	(kCal/Kg)				8
<u>.</u> S	- W - CUO	Kcal/ KW			<u> </u>	
	Consumption	ml/ KWh	0.5	Ma II	<u> </u>	0
t —	- COLLAND CONTROL FUEL (Oil)	Kcal/ml	1	0 1	·	
u	GCV or Secondary rider (Oil)	%	5.2	5 5.2	M 25 S	
٧		Rs/ KWh		1.3	34 1.5	96
11	//s-(tyu))/(r)*(g/1000)/(1-v)	Rs/ KW	pantas e en es es	1.3	73 1.3	73
١,	Tariff order			-0.0		223
-	OL In ECD (W.X)	Rs/ KW				son
_	Scheduled Generation during the Period	Kwh		582,367,2		405 992
_	a FCA Claim for the Period (yX z)	Rs		-22712322	.75 12854467	V.V