

O/o CE (EITC)  
Receipt No. 9763  
Date 12 MAR 2020  
DGM (IT) / EE (O) / SE-1  
EE  
Section

12/3



**CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED**  
(A Government of Chhattisgarh Undertaking) (A Successor Company of CSEB)  
CIN U40108CT2003SGC015822  
**OFFICE OF CHIEF ENGINEER (RA&PM), CSPDCL,**  
Email ID:cecomceb@rediff.com, website:www.cspdcl.co.in  
Phone (0771) 2574441, Fax (0771) 2574442

No.02-02/SE-I/VCA/ 3145

Raipur, Dt: 12.03.2020

To,  
**The Secretary,  
Chhattisgarh State Electricity Regulatory Commission,  
Irrigation Colony, New Shanti Nagar,  
Raipur.**

Sub: Computation of VCA charge in respect of Dec'2019 & Jan'2020 bi-monthly period – Levy to consumers as per clause 67.8 of MYT Regulations, 2015.

In compliance to the provisions contained at clause 67.0 of MYT Regulations 2015, VCA charge in respect of CHFC and CHPP towards bi-monthly period Dec '2019 & Jan '2020 is computed and shown in the table below:

Sr. No.	Category of consumers	Rate of VCA charge to be recovered
1	DLF consumers up to 100 units	Rs. 0.17 per unit
2	DLF consumers 101 to 200 units	Rs. 0.18 per unit
3	DLF consumers above 200 units	Rs. 0.30 per unit
4	Agriculture Consumers	Rs. 0.30 per unit
5	Rest all categories	Rs. 0.30 per unit

These VCA charges are recoverable from electricity consumers for the consumption in the months of March'2020 and April'2020 payable in the months of April'2020 and May'2020 respectively. The calculation-sheet as provided in the regulation is also attached herewith for favour of reference demonstrating the manner of such determination.

Encl. As above.  
*(Balleng)*

*(Signature)*  
Chief Engineer (RA&PM)  
CSPDCL: Raipur

13-3-2020

Not in original: -

Copy to:

- 1) The Chief Engineer (EITC), CSPDCL, Raipur: For favour of information and with advise to make all arrangements in SAP system to bill all HT/LT consumers at the prescribed VCA rates for the consumption in the months of March'2020 and April'2020 payable in the months of April'2020 and May'2020 respectively. It is further advised to display the computation-sheet as well as VCA rates in company's website immediately for wide publicity and make all arrangements to display the same till truing-up of ARR of FY 2019-20 completes.
- 2) The Executive Director (O&M) CSPDCL, Raipur.
- 3) The Executive Director (BR)/(RRR)/(RJR)/(JR)/(DR) CSPDCL  
Bilaspur/Raipur/Rajnandgaon/Jagdapur/Durg.
- 4) The Chief Engineer (Rev.)/(AR)/(RCR)/(RGR-R)/ CSPDCL,  
Ambikapur/Raipur/Raigarh.
- 5) The Superintending Engineer (O&M)/(City Circle)/(MT) CSPDCL Raipur I/II,  
Mahasamund/Balodabazar/Durg/Bilaspur/Raigarh/JanjgirChampa/Korba/  
Jagdapur/Kanker/Rajnandgoan/Ambikapur/Kawardha/Baikunthpur.
- 6) The Executive Engineer (AMR Cell) CSPDCL, Raipur.
- 7) The Sr. Accounts Officer I/II, CSPDCL, Raipur/Bilaspur/Durg/Ambikapur/  
Jagdapur/Rajnandgoan/Champa.

**Computation of VCA Charges (5<sup>th</sup> bi-monthly period of FY 2019-20)**

**(A) CHFC: -**

Month	KTPS	HTPS	DSPM TPS	Korba(W)Extn.	Total Amt. in Rs
Dec-19	-53,18,426	1,32,89,164	5,85,83,508	91,30,717	<b>7,56,84,963</b>
Jan-20	1,16,51,904	2,03,96,343	7,37,10,354	1,10,29,388	<b>11,67,87,989</b>
<b>Total</b>	<b>63,33,478</b>	<b>3,36,85,507</b>	<b>13,22,93,862</b>	<b>2,01,60,105</b>	<b>19,24,72,952</b>

**(B) CHPP:**

- (i) Total units purchased from NTPC and NSPCL : 1,72,04,11,410 KWh
- (ii) Amount paid against units purchased : Rs. 6,50,89,94,210  
Rate per unit : Rs. 3.78 /KWh
- (iii) Average rate approved by CSERC for purchase of power from Central generating stations(NTPC & NSPCL only) : Rs. 3.11 /KWh
- (iv) Diff. in rate (ii-iii) : Rs.0.67 /KWh
- (v) CHPP (in Rs.) (i)x(iv) : Rs. 1,15,26,75,645
- C. Gross VCA (A+B) in Rs : Rs. 1,34,51,48,597
- D. Total quantum of power purchased during the period : 5,41,77,86,643 Kwh
- E. Quantum of power purchased for sale to retail consumers of the State : 4,69,67,62,213 KWh
- F. Allowable VCA (in Rs.)[C\*(E/D)] : Rs. 1,16,61,29,920
- G. Normative transmission & distribution losses as specified in Tariff order : 16.58%
- H. Allowable VCA Charges(Rs./Kwh) (F/E\*(1-G)) : **Rs. 0.30 per KWh**

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

1	DLF consumers up to 100 units	Rs. 0.17 per unit
2	DLF consumers 101 to 200 units	Rs. 0.18 per unit
3	DLF consumers above 200 units	Rs. 0.30 per unit
4.	Agriculture Consumers	Rs. 0.30 per unit
5.	Rest all categories	Rs. 0.30 per unit

**To be recovered from energy bill for the consumption in the months of March'2020 and April'2020 payable in the months of April'2020 and May'2020 respectively.**

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### Computation of Qpp and Qrs (5th Bi-monthly of FY 2019-20)

S No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	$Q_1$	2884863250	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	$Q_2$	18890079	KwH
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL + CoGen Kawardha)	$Q_3$	4824864	KwH
4	Quantum of scheduled power purchased from CGs at state periphery (CSPTrdCL+NTPC+NSPCL+NPCIL+OHPCL+NHPCL+Bundle Power+SECI)	$Q_4$	2200233964	KwH
5	PGCIL actual losses for the bi-monthly period	L1	2.80%	
6	Quantum of scheduled power purchased from CGs at state periphery	$Q_5=Q_4(1-L1)$	2138627413	KwH
7	Quantum of actual power purchased from Renewable energy Sources	$Q_6$	191009766	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)	$Q_8$	131390000	KwH
10	Quantum of scheduled short term purchased through inter-state route at the State periphery (IEX)	$Q_9=Q_8(1-L1)$	127711080	KwH
11	Quantum of power purchased from other Sources(if any)(Short term + Border Village+Un schduled)	$Q_{10}$	51860191	KwH
12	Totál Quantum of power purchased	$Q_{pp}=Q_1+Q_2+Q_3+Q_5+Q_6+Q_7+Q_9+Q_{10}$	5417786643	KwH
13	Normative transmission and distribution losses as specified in the Tariff order	L	16.58%	
14	Quantum of power scheduled for interstate sale(Sale through IEX+Sale to Telangana)	$Q_{PT}$	721024430	KwH
15	Quantum of power purchased for sale to retail consumers of the State	$Q_{RS}=Q_{pp}-Q_{PT}$	4696762213	KwH

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## Computation of CHPP

S.No.	Particulars	
1	Scheduled energy purchased from CGs during 5th bi-monthly period	Kwh 1,72,04,11,410
2	Amount paid against units purchased	Rs. 6,50,89,94,210
3	Average rate of power purchase	Rs./Kwh 3.78
4	Average rate of Power Purchase as per Tariff Order	Rs./Kwh 3.11
5	Difference in the average rate of PP	Rs./Kwh 0.67
6	CHPP(Change in the cost of power purchased from CGs)	Rs. 1152675645

## Computation of VCA (5th Bi-monthly period of FY 2019-20)

S.No.	Particulars	
1	CHFC	Rs. 192472952
2	CHPP	Rs. 1152675645
3	Gross VCA(sub total in Rs.)	Rs. 1345148596
4	Allowable VCA(in Rs.)	Gross VCA (in Rs.)xQ <sub>rs</sub> /Q <sub>pp</sub> Rs. 1166129919
5	Allowable VCA(in Rs/Kwh)	Allowable VCA (in Rs.)/[Qrs*(1-L)] Rs/Kwh 0.30

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**N T P C LIMITED**  
WESTERN REGION HEADQUARTERS, MUMBAI-400093  
LC BILL RAISED IN THE MONTH OF JANUARY 2020

FAX to: Mr. Avind Pale, DGM(Comm)  
0771 - 259160

REF: REA/2019/120  
BILL No. WR-19-20: CSPDCL

DATED: 3-Jan-20  
DATED: 6-Jan-20

CUSTOMER: CSB

S/NO	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	G1-0 G2-0	G1-0 G2-0	SIPAT-1	SIPAT-2	VSTPS5	MST-2	SLP	KSTPS 2	Gadhavara	Lara	AMT(Rs)																																																																																																								
	Energy scheduled(KWH)	134294510	52397469	0	0	69381676	4095437	2890090	258.1	256.9	198135902	100436445	24788835	29403736	4383594	16454075	0	87149391																																																																																																									
	Energy Charges(Rs/KWH)	132.20	129.60	170.80	164.50	163.70	161.10	310.90	255.2	693.7	144.10	148.50	163.40	306.90	327.50	214.70	292.50	270.60																																																																																																									
01.	Capacity Charges	83161602	72210709	0	0	63812020	57127630	74040271	0	0	264190008	112836389	38243291	84796532	159024034	19006035	89833544	211685667	1330087732																																																																																																								
02.a.	Energy Charges	177537342	67907120	0	0	113577804	66979209	89875252	0	0	285513835	149148121	40504956	90240066	14356238	35326899	0	235826252	1365793094																																																																																																								
02.b.	Incentive	5120212	0	0	0	3591283	0	0	0	0	0	0	644394	0	0	0	0	0	9358889																																																																																																								
04.a.	ED&Cess on APc	13258349	4718904	0	0	352367	2739163	0	0	0	18995658	9326409	2081949	0	0	0	0	19169938	73713937																																																																																																								
04.b.	ED&Cess on Sales	19682367	7572128	0	0	0	0	0	0	0	31053931	15282320	0	0	0	0	0	30680281	104271027																																																																																																								
	Total (Main Bills) Rs.	298779872	152408861	0	0	184504674	125846002	163915523	0	0	599655432	286593239	81474590	175036598	173380272	54332934	89933544	487862138	2883221679																																																																																																								
05.	REAEOR Rvsn - November-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(6828916)																																																																																																								
06.	Compensation - CERc order							3376950						1891274	4673399				9943823																																																																																																								
07.	RUDC Chgs-November 2019	48576	17364	0	0	24281	14588	15561	0	0	72453	36389	9562	20298	36594	17616	17923	92169	423374																																																																																																								
08.	ECR Rvsn VST/SP/SLP			0	0	120225	109924				13513194	8241585	47065		367185				22399180																																																																																																								
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15.	LC Bill (Gross) Rs.	298828448	152426225	0	0	184649180	125970514	167308034	0	0	613239079	294871213	81531218	178948170	178459450	55293972	89951467	489681959	2909158939																																																																																																								
16.	Net LC Bill (Gross-Rebate)	298828448	152426225	0	0	184649180	125970514	167308034	0	0	613239079	294871213	81531218	178948170	178459450	55293972	89951467	489681959	2909158939																																																																																																								
17.	Rate of FC @ (Rs/Kwh)	68.40	138.02	85.32	69.87	104.27	156.08	187.29	83.71	105.62	130.04	123.48	166.71	148.08	171.58			198.11	195.73																																																																																																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">REBATABLE Rs. 2909158939</td> <td style="width: 50%;">NON-REBATABLE Rs. 0</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total Bill Rs. 2909158939</td> </tr> <tr> <td colspan="10">TOTAL PAYABLE for the month</td> <td colspan="10">NET PAYABLE (Rs.)</td> </tr> <tr> <td colspan="10"></td> <td colspan="10">LPSC</td> </tr> <tr> <td colspan="10"></td> <td colspan="10">2909158939</td> </tr> <tr> <td colspan="10"></td> <td colspan="10">55138030</td> </tr> <tr> <td colspan="10"></td> <td colspan="10">2964298969</td> </tr> </table>																				REBATABLE Rs. 2909158939	NON-REBATABLE Rs. 0	Total Bill Rs. 2909158939		TOTAL PAYABLE for the month										NET PAYABLE (Rs.)																				LPSC																				2909158939																				55138030																				2964298969									
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For & on behalf of NTPC Ltd.

REP: REA/2020/1.0  
 Bill No: WR-19-20 : CSP/00L  
 DATED: 5-Feb-20  
 6-Feb-20

WESTERN REGION HEADQUARTERS, MUMBAI-400093  
 LC BILL RAISED IN THE MONTH OF FEBRUARY 2020

NTPC LIMITED  
 CUSTOMER: CSEB

FAX to: Mr. Arvind Paley DGM(Comm)  
 0771 - 2259160

Sl.No.	PARTICULARS	KSTPS	KSTPS 3	VSTPS1	VSTPS2	VSTPS3	VSTPS4	MSTPS1	KGPS	JGPS	SIPAT-1	SIPAT-2	VSTPS5	MST-2	SLP	KSTPS 2	Gadavara	Lara	AMT(Rs)
01.	Capacity Charges	83091042	72099795	0	0	63147203	57137645	68296125	0	0	28553796	113723836	38644475	73116185	159024034	13006035	9287123	544482963	1670194247
02.a.	Energy Charges	179456736	67995505	0	0	100096167	55573396	30945729	0	0	3131740792	154689942	35454121	78056146	32095417	58707178	55235124	1639175954	0
03.	MOPA Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04.a.	Incentive	5477121	0	0	0	(1261243)	0	0	0	0	0	362716	(1612892)	0	0	0	0	0	2965702
04.b.	ED&Cess on APC	13878427	4945148	0	0	4672188	2803218	0	0	0	17746718	8978000	2003493	0	0	0	0	0	63046167
04.b.	ED&Cess on Sales	20144177	7859620	0	0	0	0	0	0	0	29720385	15065467	0	0	0	0	0	0	85862088
	Total (Main Bills) Rs.	302047503	152901069	0	0	166654315	115514239	99241854	0	0	646745691	292829661	74489197	151181331	159024034	51101452	151584301	1117929461	3481244128
05.	RE/AE/R Rvsn - December-05.05.17	9132027	3458233	0	0	8811472	5119430	0	0	0	0	0	3123394	0	0	0	0	0	2964456
06.	Compensation - CERC order							5511582						5143096					10854677
07.	R/D/C Chgs-December 2019	48378	17275	0	0	24140	14438	15595	0	0	72054	38047	9147	22888	36560	16784	17907	92407	423320
08.	EOR Rvsn KST/NT/SPT	(7741731)	(2927890)	0	0	4741244	3645308				(17283012)	(6402905)	2358185			(454320)			(24065121)
09.	Solapur CERC order did 06.01.2020																		(995115)
10.	Interest on Rvsn - Solapur + TDS Adj																		(478082)
11.	IT Refund FY 2007-08																		(34150877)
12.	Sharing of Gains	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.																			0
14.																			0
15.	LC Bill (Gross) Rs.	303486177	153448687	0	0	180231171	124293435	104759031	0	0	629534733	286462803	79979923	156347015	157587397	50663916	151602208	1118021668	3395909357
16.	Net LC Bill (Gross-Rebate)	303486177	153448687	0	0	180231171	124293435	104759031	0	0	629534733	286462803	79979923	156347015	157587397	50663916	151602208	1118021668	3395909357
17.	Rate of FC @ [P/(K*W)]	58.40	138.02	83.32	99.87	104.27	136.08	187.29	83.71	105.62	130.04	123.48	186.71	148.08	177.58				3395909357
REBATABILE																			3395909357
NON-REBATABILE																			0
Total Bill																			3395909357
NET PAYABLE (Rs.)																		3395909357	
TOTAL PAYABLE for the month																		3395909357	
For & on behalf of NTPC Ltd.																		3395909357	



# एनटीपीसी-सेल पावर कंपनी लिमिटेड

(एनटीपीसी और सेल का संयुक्त उपक्रम)

**NTPC-SAIL Power Company Limited**

(A joint venture of NTPC & SAIL)

CIN : U74899DL1999PLC098274, GSTIN : 22AABCN5467A1ZX, HSN : 27160000

Energy Bill : 01.01.2020 - 31.01.2020

Bill Date : 06.02.2020

Bill No. 6300195

Beneficiary Name : Chhatisgarh State Power

GSTIN Of Beneficiary : 22AADCC6047K1ZR

Station Data		Beneficiary Data	
PAFM	82.9265 %	Energy Schd.	8,410,548.00 kwh
NAPAF	85.000 %		

Energy Charge Rate (ECR)		$((GHR - SFC \times CVSF) \times LPPF / CVPF + SFC \times LPSFI + LC \times LPL) \times 100 / (100 - AUX)$	
ECR	3.4480 Rs/kwh		
Base Values		Month Values	
AUX	9.000 %	CVSF	10.0050 Kcal/ml
GHR	2415.000 KCAL/kwh	LPPF	4.8776 Rs/Kg
SFC	0.500 mL/kwh	CVPF	3852.949 kCal/Kg
		LPSFI	Rs/ml

ED / Cess on APC		ED Duty on Cess/Taxes	
Total SG for Station	225,951,616.00 kwh	ED/Cess/Taxes Rate	0.050 Rs./kwh
SAIL TEED	kwh	ED Rate on APC	0.607 Rs./kwh
		Energy Schd. for Benf.	8,410,548.00 kwh
Total	225,951,616.00 kwh	ED/Cess/Taxes Amt.	420,527.00 Rs.
		ED on APC Amt.	434,668.00 Rs.

Provisional Bill Period		Final Previous Period	
APC excl. Colony Cons.	19,238,010.00 kwh	Plant APC excl. Colony	22,937,646.00 kwh
Power factor	1.0000	Power factor	1.0000
Appl. APC for ED	716,092.27 kwh	Applicable APC for ED	1,489,898.49 kwh
Provisional Previous Period		Difference	
APC excl. Colony	22,937,646.00 kwh	Appl. APC ED (Curr. Bill)	716,092.27 kwh
Power factor	1.0000		
Appl. APC for ED	1,489,898.49 kwh		

Adjustment due to Revised ECR		Adjustment due to Revised REA	
ECR Prev. Period	3.3280 Rs./kwh	ECR-Rev Prev. Period	3.2920 Rs./kwh
ECR-Rev. Prev. Period	3.2920 Rs./kwh	Schd. Energy (last bill)	18,975,439.00 kwh
Difference	0.036- Rs./kwh	Schd. Energy ( REA )	18,975,439.00 kwh
Energy Schd Prev Period	18,975,439.00 kwh	Diff. of Sched. Energy	kwh
Oth Adj due to ECR Rev.	683,115.80- Rs.	Adj. due to Rev. Energy	0.00 Rs.

Other Charges		Rebate & Surcharge Details	
WRLDC fees & charges amt.	11,516.00 Rs.	Cap. Charges Prev Period	Rs.
Total Other Charges billed	11,516.00 Rs.	Energy Charges Prev Period	63,150,261.99 Rs.
		Other Adj. Prev Period	Rs.
		Total Applicable	63,150,261.99 Rs.
		Rebate	%
		Rebate Amount (-) (Rs.)	Rs.
		Surcharge (+) (Rs.)	0.00 Rs.

पंजीकृत केन्द्रीय कार्यालय : चतुर्थ तल, एनटीपीसी टावर, 15, भिकाजी कामा प्लेस, नई दिल्ली - 110066

दूरभाष / Tel: 011-26717378-79-80-82, 26172273/ Fax: 011-, 26717364, 26717365, 26717366, 26717381

Registered Corporate Office: 4<sup>th</sup> Floor, NBCC Tower, 15 Bhikaji Cama Place, New Delhi-110066

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एनटीपीसी-सेल पावर कंपनी लिमिटेड

(एनटीपीसी और सेल का संयुक्त उपक्रम)

NTPC-SAIL Power Company Limited

(A joint venture of NTPC & SAIL)

GIN : U74899DL1999PLC098274, GSTIN : 22AABCN5467A1ZX, HSN : 27160000

Energy Bill : 01.12.2019 - 31.12.2019

Bill Date : 04.01.2020

Bill No. 6300191

Beneficiary Name : Chhatisgarh State Power

GSTIN Of Beneficiary : 22AADCC6047K1ZR

Station Data		Beneficiary Data	
PAFM	102.3564 %	Energy Schd.	18,975,439.00 kwh
NAPAF	85.000 %		

Energy Charge Rate (ECR)		((GHR - SFC x CVSF) x LPPF / CVPF+SFC x LPSFI + LC x LPL) x 100 / (100 - AUX)	
ECR	3.3280 Rs/kwh		
Base Values		Month Values	
AUX	9.000 %	CVSF	9.8120 Kcal/ml
GHR	2415.000 kCal/kwh	LPPF	4.6680 Rs/Kg
SFC	0.500 ml/kwh	CVPF	3824.963 kCal/Kg
		LPSFI	0.0491 Rs/ml

ED / Cess on APC		ED Duty on Cess/Taxes	
Total SG for Station	292,135,273.00 kwh	ED/Cess/Taxes Rate	0.050 Rs./kvah
SAIL TEED	kwh	ED Rate on APC	0.607 Rs./kwh
		Energy Schd. for Benf.	18,975,439.00 kwh
Total	292,135,273.00 kwh	ED/Cess/Taxes Amt.	948,772.00 Rs.
		ED on APC Amt.	904,368.00 Rs.

Provisional Bill Period		Final Previous Period	
APC excl. Colony Cons.	22,937,646.00 kwh	Plant APC excl. Colony	17,681,617.00 kwh
Power factor	1.0000	Power factor	1.0000
Appl. APC for ED	1,489,898.49 kwh	Applicable APC for ED	1,482,490.61 kwh
Provisional Previous Period		Difference	kwh
APC excl. Colony	17,681,617.00 kwh	Appl. APC ED (Curr. Bill)	1,489,898.49 kwh
Power factor	1.0000		
Appl. APC for ED	1,482,490.61 kwh		

Adjustment due to Revised ECR		Adjustment due to Revised REA	
ECR Prev. Period	3.1780 Rs./kwh	ECR-Rev Prev. Period	3.1810 Rs./kwh
ECR-Rev. Prev. Period	3.1810 Rs./kwh	Schd. Energy (last bill)	19,478,786.00 kwh
Difference	0.003 Rs./kwh	Schd. Energy ( REA )	19,478,786.00 kwh
Energy Schd Prev Period	19,478,786.00 kwh	Diff. of Sched. Energy	kwh
Oth Adj due to ECR Rev.	58,436.36 Rs.	Adj. due to Rev. Energy	0.00 Rs.

Other Charges		Rebate & Surcharge Details	
WRLCD fees & charges amt.	11,549.00 Rs.	Cap. Charges Prev Period	Rs.
Total Other Charges billed	11,549.00 Rs.	Energy Charges Prev Period	61,903,582.91 Rs.
		Other Adj. Prev Period	Rs.
		Total Applicable	61,903,582.91 Rs.
		Rebate	%
		Rebate Amount (-) (Rs.)	Rs.
		Surcharge (+) (Rs.)	0.00 Rs.

पंजीकृत केन्द्रीय कार्यालय : चतुर्थ तल, एनटीपीसी टावर, 15, भिकाजी कामा प्लेस, नई दिल्ली - 110066

दूरभाष / Tel: 011-26717378-79-80-82, 26712273/ Fax: 011-, 26717364, 26717365, 26717366, 26717381

Registered Corporate Office: 4<sup>th</sup> Floor, NBCC Tower, 15 Bhikaji Cama Place, New Delhi-110066



CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED  
(A Govt. of C.G. Undertaking)  
Office of the Executive Engineer (C&RA)

NO. 03-09/ Bills-15/ 161

Raipur Dtd.

29-Feb-2020

To,

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

C.E. (RA&PM) CSPDCL, Raipur	
Date: 29-02-2020	
No.	8412
Date	02-03-2020

**Sub:** Fuel Cost Adjustment calculation for the 5th Bi-Monthly period of FY 2019-20.  
**Ref:** 1) CSERC MYT Regulations 2015.  
2) CSERC tariff order dtd. 31/03/2017

In compliance to the CSERC order referred above, please find enclosed FCA Calculation amounting to Rs. **455,879,836** /- for the 5th Bi-Monthly period of FY 2019-20 (Dec-19 & Jan-20). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Apr-20**

Executive Engineer (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. (Fuel Mgmt.) CSPGCL, Raipur
- 5 The C.E.(EITC) CSPDCL, Raipur. Kindly upload the same in Company web site (cspc.co.in/cspgc) under the link Fuel Cost Adjustment-5th Bi Monthly of FY 2019-20 Dec-2019 to Jan-2020
- 6 The S.O. to M.D. CSPGCL, Raipur
- 7 The S.O. to M.D. CSPDCL, Raipur
- 8 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

ACE/SE(PM)I

## Fuel Cost Adjustment calculation for the 5th Bi-Monthly period of FY 2019-20.

All Figures in Rs.

Name of Plant	Dec-19	Jan-20	Total
KTPS	-5318426	11,651,904	6,333,478
HTPS	13289164	20,396,343	33,685,507
DSPM TPS	58583508	73,710,354	132,293,862
KW Extn	9130717	11,029,388	20,160,105
MTTPS	138286921	125,119,963	263,406,884
<b>Total</b>	<b>213,971,884</b>	<b>241,907,952</b>	<b>455,879,836</b>

RUPEES FORTY FIVE CRORES FIFTY EIGHT LAKHS SEVENTY NINE THOUSAND EIGHT HUNDRED THIRTY SIX 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
Apr-20	3,166,739	16,842,754	66,146,931	10,080,053	131,703,442	227,939,919
May-20	3,166,739	16,842,753	66,146,931	10,080,052	131,703,442	227,939,917
<b>Total</b>	<b>6,333,478</b>	<b>33,685,507</b>	<b>132,293,862</b>	<b>20,160,105</b>	<b>263,406,884</b>	<b>455,879,836</b>

  
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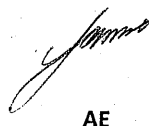
FORMAT-I

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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.128125500	0.098452550	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.128125500	0.098452550	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001473443	0.001132204	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.126652057	0.097320346	
g	Amount charged by the Coal / Lignite Company	(Rs.)		214,636,565.62	164,928,271.04	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	( Rs.)		214,636,565.62	164,928,271.04	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1694.69	1694.69	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1694.69	1694.69	
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	1872.67	1872.67	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,606	3,322.00	
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		1.808	1.963	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		-0.047	0.108	
w	Scheduled Generation during the Period	KWh		113,158,000	107,888,000	
aa	FCA Claim for the Period (vXw )	Rs		-5,318,426	11,651,904	6,333,478

  
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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.387216	0.392586	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.387216	0.392586	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000774432	0.000785172	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.386441568	0.391800828	
g	Amount charged by the Coal / Lignite Company	(Rs.)		690748456.13	700327106.38	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-54662583.15	3290817.34	
i	Net amount Charged by Coal Company (g+h)	( Rs.)		636085872.98	703617923.72	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1646.01	1795.86	
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	1646.01	1795.86	
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	1,726.76	1,876.61	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,399	3,663	
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= $((p-(qxr))/(0)*(n/1000))/(1-s)$	Rs/ KWh		1.486	1.499	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.034	0.047	
w	Scheduled Generation during the Period	KWh		390,857,750	433,964,750	
x	FCA Claim for the Period (vXw)	Rs		13289164	20396343	33,685,50

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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.190718	0.193363	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.190718	0.193363	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000381436	0.000386726	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.190336564	0.192976274	
g	Amount charged by the Coal / Lignite Company	(Rs.)		340,219,385.37	344,937,203.57	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-26923361.85	1620850.38	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		313296023.52	346558053.95	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1646.01	1795.86	
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	1646.01	1795.86	
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	1,726.76	1,876.61	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,394	3,629	
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= $((p-(qxr))/(0)*(n/1000))/(1-s)$	Rs/ KWh		1.273	1.293	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.03	0.05	
w	Scheduled Generation during the Period	KWh		304,357,250	220,587,750	
x	FCA Claim for the Period (vXw)	Rs		9,130,717	11,029,388	20,160,105

  
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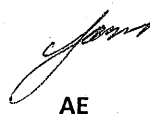
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Details/Information for Computation of Energy Charge Rates

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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.26142311	0.29430991	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.26142311	0.29430991	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000522846	0.000588620	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.260900264	0.293721290	
g	Amount charged by the Coal / Lignite Company	(Rs.)		477587113.01	533861848.36	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		1,909,934.51	-8,743,701.43	
i	Net amount Charged by Coal Company (g+h)	( Rs.)		479,497,047.52	525,118,146.93	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$	Rs/MT		1837.86	1787.81	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1837.86	1787.81	
m	Transportation Cost Paid to railways	Rs		73449907.20	82614782.00	
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		281.52	281.27	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			281.52	281.27	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2119.38	2069.08	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3384.23	3190.05	
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= $((s-(txu))/(r) \times (q/1000))/(1-v)$	Rs/ KWh		1.717	1.778	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.190	0.251	
z	Scheduled Generation during the Period	Kwh		308,334,250	293,666,750	
aa	FCA Claim for the Period (yX z)	Rs		58,583,508	73,710,354	132,293,862

  
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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 Dec-19	For Month of Jan-20	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.405855270	0.34013154	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.40585527	0.34013154	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.003246842	0.002721052	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.402608428	0.337410488	
g	Amount charged by the Coal / Lignite Company	(Rs.)		702311748.09	605953214.63	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-25,068,785.75		
i	Net amount Charged by Coal Company (g+h)	( Rs.)		677242962.34	605953214.63	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$	Rs/MT		1682.14	1795.89	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1682.14	1795.89	
m	Transportation Cost Paid to railways	Rs		157393263.00	126874319.00	
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		390.93	376.02	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			390.93	376.02	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,073.07	2,171.91	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,079	2,962.00	
s	Normative SHR	Kcal/ KWh	2,378	2,378	2,378	
t	Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
u	GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
v	Normative Auxiliary Consumption	%	5.25	5.25	5.25	
w	ECR for the Period= $((s-(txu))/(r)*(q/1000))/(1-v)$	Rs/ KWh		1.686	1.836	
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		0.313	0.463	
z	Scheduled Generation during the Period	Kwh		441,811,250	270,237,500	
aa	FCA Claim for the Period (yX z)	Rs		138,286,921	125,119,963	263,406,884

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