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CHHATTISGARH STATE POWER DISTRIBUTION CO.LTD.

(A Government of Chhattisgarh Undertaking) (A Successor Company of CSEB)
 CIN:U40108CT2003SGC015822

OFFICE OF CHIEF ENGINEER (RA&PM),

Ph: (0771) 2574441 (Fax) 2574442, website: www.cspdcl.co.in Email: cecomcseb@rediff.com

Raipur, Dt: 14.11.18

To,
 for upload

**The Executive Director (EITC),
 CS Power Distribution Co. Ltd.,
 Raipur.**

Sub:- Levy of VCA charge from the consumers.

Ref:- i) Chhattisgarh State Electricity Regulatory Commission's order dated 30.06.2012 under Suo- Motu Petition No 26/2012 and order dated 29.06.2015 under Suo- Motu Petition No 37/2015(M).

Chhattisgarh State Electricity Regulatory Commission vide order dated 30.06.2012 under Suo Motu petition no. 26 of 2012 amended vide order dated 29.06.2015 under Suo Motu Petition no 37 of 2015 (M) has approved to levy of VCA charge from all category of consumers. Rate of VCA charge for 3rd bimonthly period of FY 2018-19 i.e. 01.08.18 to 30.09.18 calculated in accordance to above orders is tabulated below for levy from all category of consumers:-

1.	DLF consumers upto 40 units	@ 04 Paise per unit
2.	DLF consumers 41 to 200 units	@ 04 Paise per unit
3.	DLF consumers above 200 units	@ 04 Paise per unit
4.	Rest all category of consumers	@ 04 Paise per unit

Such slab wise capping will not be telescopic. The above charge is recoverable from consumers for the consumption in the months of **November'18 to December'18** payable in the months of **December'18 to January'19**. It is therefore requested to kindly arrange to made suitable programme in SAP to implement recovery of above VCA charges from the consumers. Further information regarding levy of VCA charge may be uploaded in website.

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

Copy to:-

1. The Executive Director (O&M) CSPDCL, Raipur.
2. The Executive Director (Rev.) CSPDCL, Raipur.
3. The Executive Director (DR)/(BR)/(RR)/(CR)/ (RJN-R)/Chief Engineer(AR)/(JR)/(RJR) CSPDCL, Durg/Bilaspur/Raipur/Ambikapur/Jagdalpur/Rajnandgaon/Raigarh.
4. The Superintending Engineer (O&M)/(City Circle) CSPDCL, Raipur I/II, Mahasamund/Balodabazar/Durg/Bilaspur/Raigarh/Janjgir-Champa/Korba/Jagdalpur/ Kanker/ Rajnandgaon/Ambikapur.
5. The Executive Engineer (AMR CELL) CSPDCL, Raipur.
6. The Sr. Accounts Officer I/II, CSPDCL, Raipur /Bilaspur / Durg/ Ambikapur/

Computation of VCA Charges (3rd bi-monthly period 2018-19)

(A) CHFC :-

	KTPS	HTPS	DSPM TPS	Korba(W)Extn.	Total In Rs.
Aug. 18	41631582	45189837	7374132	13749324	107944875
Sep. 18	51923953	54100568	17171000	34909973	158105494
Total	93555535	99290406	24545132	48659297	266050369

(B) CHPP :-

Total units purchased from NTPC and NSPCL = 1322814115 KWh

Amount paid against units purchased = Rs. 4050698270.00

Rate per unit(I) = Rs. 3.06 /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. -0.06 /KWh

CHPP (in Rs.) = Rs. -79368847.00

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

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

(E) Quantum of power purchased for sale to retail consumers of the State = 4693178701 KWh

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

(G) Normative transmission & distribution losses as specified in 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:

- 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 - Rs. 0.04 per unit

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

Computation of Qpp qand Qrs

S No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	Q_1	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 CTU) NTPC+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 interstate 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	$Q_{pp}=Q_1+Q_2+Q_3+Q_5+Q_6+Q_7+Q_9+Q_{10}$	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_{PT}	1010557220	KwH
15	Quantum of power purchased for sale to rtail consumers of the State	$Q_{RS}=Q_{pp}-Q_{PT}$	4693178701	KwH

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Computation of CHPP

Sno.	Particulars	MU
1	Scheduled energy purchased from CGs during Third bi-monthly period	1322814115
2	Amount paid against units purchased	4050698270
	Average rate of power purchase	3.06
3	Average rate of Power Purchase as per Tariff Order	3.12
4	Difference in the average rate of PP	-0.06
5	CHPP(Change in the cost of power purchased from CGs)	-79368847

Computation of VCA

Sno.	Particulars	
1	CHFC	Rs 266050369
2	CHPP	Rs -79368847
3	Gross VCA(sub total in Rs.)	Rs 186681522
4	Allowable VCA(in Rs.)	Rs 153606295
5	Allowable VCA(in Rs/Kwh)	Rs/Kwh 0.04

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

NO. 03-09/ Bills-15/ 596

Raipur Dtd. 29-Oct-2018

To,

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

C.E. (RA&PM) CSPDCL, Raipur
LABOR REVENUE
NO. 5395
Date 29-10-18

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

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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. 23/05/2015.
- 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- 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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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

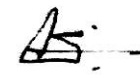
As per CSERC order the above amount of FCA shall be claimed as mentioned below:-

All Figures in Rs.

Month	KTPS	HTPS	DSPM TPS	KW Extn	MTTPS	Total
Dec-18	46,777,768	49,645,203	12,272,566	24,329,649	52,916,174	185,941,360
Jan-19	46,777,768	49,645,202	12,272,565	24,329,648	52,916,173	185,941,356
Total	93,555,536	99,290,405	24,545,131	48,659,297	105,832,347	371,882,716


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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 (East) Thermal Power Station - KTPS

	Description	Unit	Considered in Tariff order	For Month of Aug-18	For Month of Sept-18	Total for period
a	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)		0.176416170	0.142038500	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002028786	0.001633443	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.174387384	0.140405057	
g	Amount charged by the Coal / Lignite Company	(Rs.)		295,294,377.69	236,825,065.59	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0.00	4,528,107.90	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		295,294,377.69	241,353,173.49	
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 payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1693.32	1718.98	
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	1871.3	1896.96	
o	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	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		2.168	2.345	
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.313	0.490	
w	Scheduled Generation during the Period	KWh		133,008,250	105,967,250	
aa	FCA Claim for the Period (vXw)	Rs		41,631,582	51923952.5	93,555,535


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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 Aug- 18	For Month of Sept- 18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.336340	0.259558	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.336340	0.259558	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000672680	0.000519116	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.335667320	0.259038884	
g	Amount charged by the Coal / Lignite Company	(Rs.)		597342597.97	460977136.35	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0	0	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		597342597.97	460,977,136.35	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1779.57	1779.57	
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	1779.57	1779.57	
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	1,860.32	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,509	3,442	
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		1.551	1.581	
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		0.099	0.129	
w	Net Generation during the Period	KWh		456,463,000	419,384,250	
x	FCA Claim for the Period (vXw)	Rs		45189837	54100568	99,290,405


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Details/Information for Computation of Energy Charge Rates

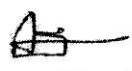
Name of the Company : Chhattisgarh State Power Generation Company Limited

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

	Description	Unit	Considered in Tariff order	For Month of Aug-18	For Month of Sept-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.165660	0.127842	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.165660	0.127842	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000331320	0.000255684	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.165328680	0.127586316	
g	Amount charged by the Coal / Lignite Company	(Rs.)		294,213,518.47	227,048,440.37	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		0	0	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		294213518.47	227,048,440.37	
j	Rate of Coal for the period Charged by Coal Company = $(i/(f*10^6))$	Rs/MT		1779.57	1779.57	
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	1779.57	1779.57	
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	1,860.32	1,860.32	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,568	3,435	
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		1.304	1.355	
u	ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v	Change in ECR (t-u)	Rs/ KWh		0.061	0.112	
w	Scheduled Generation during the Period	KWh		225,398,750	311,696,190	
x	FCA Claim for the Period (vXw)	Rs		13749323.75	34,909,973	48,659,297


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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 Aug-18	For Month of Sept-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		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%	
e	Normative 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 payable to Coal Company	Rs/MT				
l	Net Rate of coal payable 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	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			222.05	230.18	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2062.96	2065.70	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3646.00	3577.77	
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-(bu))/(r)*(q/1000)/(1-v)	Rs/ KWh		1.551	1.583	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		0.024	0.056	
z	Scheduled Generation during the Period	Kwh		307,255,500	306,625,000	
aa	FCA Claim for the Period (yX z)	Rs		7374132	17,171,000	24,545,132


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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 Aug-18	For Month of Sept-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.33977519	0.32763057	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.33977519	0.32763057	
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.002718202	0.002621045	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.337056988	0.325009525	
g	Amount charged by the Coal / Lignite Company	(Rs.)		671680981.66	662149273.25	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-106,127,847.86	-23,879,653.64	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		565553133.80	638269619.61	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1677.92	1963.85	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1677.92	1963.85	
m	Transportation Cost Paid to railways	Rs		76048148.00	75361002.00	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		225.62	231.87	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			225.62	231.87	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	1,903.54	2,196	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,574	3,446	
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-(tu))/(r)*(q/1000))/(1-v)	Rs/ KWh		1.334	1.596	
x	ECR as considered in Tariff order	Rs/ KWh		1.373	1.373	
y	Change in ECR (w-x)	Rs/ KWh		-0.039	0.223	
z	Scheduled Generation during the Period	Kwh		582,367,250	576,433,500	
aa	FCA Claim for the Period (yX z)	Rs		-22712322.75	128544670.5	105,832,348

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