

O/o CE (EITC)
Receipt No. 6615

Date 16 JAN 2019

DGM (IT) / SE (O)

EE. Bill

Section CSPDCL

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: cecomceb@rediff.com

No.02-02/ACE-IVCA/ 2 555

Raipur, Dt: 15.1.19

To,
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 4th bi-monthly period of FY 2018-19 i.e. 01.10.18 to 30.11.18 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 **January'19 to February'19** payable in the months of **February'19 to March'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)/ CSPDCL, Durg/Bilaspur/Raipur/Ambikapur/Jagdarpur/Rajnandgaon/Raigarh.
4. The Superintending Engineer (Circle)/(City Circle) CSPDCL, Raipur I/II, Mahasamund/Balodabazar/Durg/Bilaspur/Raigarh/Janjgir-Champa/Korba/Jagdarpur/ Kanker/ Rajnandgaon/Ambikapur.
5. The Executive Engineer (AMR CELL) CSPDCL, Raipur.
6. The Sr. Accounts Officer I/II, CSPDCL, Raipur /Bilaspur / Durg/ Ambikapur/ Jagdarpur/ Rajnandgaon/ Champa.

Computation of VCA Charges (4th bi-monthly period 2018-19)

(A) CHFC :-

	KTPS	HTPS	DSPM TPS	Korba(W)Extn.	Total Amt. In Rs
Oct. 18	31295356	64692825	-663055	46307974	141633100
Nov. 18	37173717	34358688	-8584544	21165252	84113113
Total	68469073	99051514	-9247599	67473226	225746213

(B) CHPP :-

(i) Total units purchased from NTPC and NSPCL = 1494862775 KWh

(ii) Amount paid against units purchased = Rs. 4650088406.00
Rate per unit = Rs. 3.11 /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. -0.01 /KWh

(v) CHPP (in Rs.) (iv)x(v) = Rs.-14948628.00

(C) Gross VCA (A+B) in Rs. = Rs.210797585.00

(D) Total quantum of power purchased during the period = 5950523325 Kwh

(E) Quantum of power purchased for sale to retail consumers of the State = 4899710465 KWh

(F) Allowable VCA (in Rs.) [C*(E/D)] = Rs.173572487.00

(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 Jan'19 and Feb'19 payable in the months of Feb'19 and Mar '19

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11/1/19

Computation of CHPP

Sno.	Particulars	MU	1494862775
1	Scheduled energy purchased from CGs during Fourth bi-monthly period	Rs.	4650088406
2	Amount paid against units purchased	Rs/Kwh	3.11
	Average rate of power purchase	Rs/Kwh	3.12
3	Average rate of Power Purchase as per Tariff Order	Rs/Kwh	-0.01
4	Difference in the average rate of PP	Rs.	-14948628
5	CHPP(Change in the cost of power purchased from CGs)		

Computation of VCA

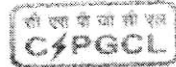
Sno.	Particulars	Rs	225746213
1	CHFC	Rs	-14948628
2	CHPP	Rs	210797585
3	Gross VCA(sub total in Rs.)	Rs	173572487
4	Allowable VCA(in Rs.)	Rs/Kwh	0.04
5	Allowable VCA(in Rs/Kwh)		

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Computation of Qpp and Qrs

S No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	Q_1	3537064620	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	Q_2	68331819	KwH
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL + CoGen Kawardha)	Q_3	3748760	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	1844789809	KwH
5	PGCIL actual losses for the bi-monthly period	L1	2.95%	
6	Quantum of scheduled power purchased from CGs at state periphery	$Q_5=Q_4(1-L1)$	1790368510	KwH
7	Quantum of actual power purchased from Renewable energy Sources	Q_6	162089164	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	117231085	KwH
10	Quantum of scheduled short term purchased through inter state route at the State periphery	$Q_9=Q_8(1-L1)$	113772768	KwH
11	Quantum of power purchased from other Sources(if any)(Short term + Border Village+Un schduled)	Q_{10}	275147684	KwH
12	Total Quantum of power purchased	$Q_{PP}=Q_1+Q_2+Q_3+Q_5+Q_6+Q_7+Q_9+Q_{10}$	5950523325	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}	1050812860	KwH
15	Quantum of power purchased for sale to retail consumers of the State	$Q_{RS}=Q_{PP}-Q_{PT}$	4899710465	KwH

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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/ 749

Raipur Dtd.

28-Dec-2018

To,

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

RA&PM CSPDCL, Raipur	
Letter No.	
No.	6962
Date	31.12.18

Sub: Fuel Cost Adjustment calculation for the 4th 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. **432,853,452** /- for the 4th Bi-Monthly period of FY 2018-19 (Oct-18 & Nov- 18). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Feb-19**

EE (PM) J

31/12/18

31/12/18

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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- 4th Bi Monthly of FY 2018-19 (Oct -2018 to Nov- 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

Fuel Cost Adjustment calculation for the 4th Bi-Monthly period of FY 2018-19.

All Figures in Rs.

Name of Plant	Oct-18	Nov-18	Total
KTPS	31295356	37,173,717	68,469,073
HTPS	64692825	34,358,688	99,051,513
DSPM TPS	-663055	-8,584,544	-9,247,599
KW Extn	46307974	21,165,252	67,473,226
MTTPS	91244228	115,863,011	207,107,239
Total	232,877,328	199,976,124	432,853,452

RUPEES FORTY THREE CRORES TWENTY EIGHT LAKHS FIFTY THREE THOUSAND FOUR HUNDRED FIFTY TWO 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
Feb-19	34,234,537	49,525,757	-4,623,800	33,736,613	103,553,620	216,426,727
Mar-19	34,234,536	49,525,756	-4,623,799	33,736,613	103,553,619	216,426,725
Total	68,469,073	99,051,513	-9,247,599	67,473,226	207,107,239	432,853,452


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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 Oct-18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.129203400	0.10404275	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.129203400	0.104042750	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001485839	0.001196492	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.127717561	0.102846258	
g	Amount charged by the Coal / Lignite Company	(Rs.)		215,424,792.93	173,473,669.30	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs.)		215,424,792.93	173,473,669.30	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1686.73	1686.73	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1686.73	1686.73	
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	1,864.71	1,864.71	
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,007	2,831	
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		2,159	2,293	
u	ECR as considered in Tariff order	Rs/ KWh	1,855	1,855	1,855	
v	Change in ECR (t-u)	Rs/ KWh		0,304	0,438	
w	Scheduled Generation during the Period	KWh		102,945,250	84,871,500	
aa	FCA Claim for the Period (vXw)	Rs		31,295,356	37,173,717	68,469,073 ✓


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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 Oct-18	For Month of Nov-18	Total for period
a Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.406020	0.388131	
b Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.406020	0.388131	
d Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e Normative Transit & Handling Losses (cXd)	(MMT)		0.000812040	0.000776262	
f Net coal / Lignite Supplied (c-e)	(MMT)		0.405207960	0.387354738	
g Amount charged by the Coal / Lignite Company	(Rs.)		721094849.42	689323838.68	
h Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		2103796.87		
i Net amount Charged by Coal Company (g+h)	(Rs.)		723198646.29	689.323.838.68	
j Rate of Coal for the period Charged by Coal Company $= (i / (f * 10^6))$	Rs/MT		1784.76	1779.57	
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	1784.76	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	1,865.51	1,860.32	
o Average GCV of coal / Lignite as fired	(KCal/Kg)	3,406.33	3,407	3,562	
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= $(l-p-(qxr))/(0)*(n/1000)/(1-s)$	Rs/ KWh		1.602	1.528	
u ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v Change in ECR (t-u)	Rs/ KWh		0.150	0.076	
w Net Generation during the Period	KWh		431,285,500	452,088,000	
x FCA Claim for the Period (vXw)	Rs		64692825	34358688	99,051,510 ✓


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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 Oct-18	For Month of Nov-18	Total for period
a. Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.199980	0.191169	
b. Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c. Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.199980	0.191169	
d. Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e. Normative Transit & Handling Losses (cXd)	(MMT)		0.000399960	0.000382338	
f. Net coal / Lignite Supplied (c-e)	(MMT)		0.199580040	0.190786662	
g. Amount charged by the Coal / Lignite Company	(Rs.)		355,166,119.82	339,517,711.58	
h. Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		1036198.52		
i. Net amount Charged by Coal Company (g+h)	(Rs.)		356202318.34	339,517,711.58	
j. Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1784.76	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	1784.76	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	1,865.51	1,860.32	
o. Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,383	3,559	
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		1.379	1.307	
u. ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v. Change in ECR (t-u)	Rs/ KWh		0.136	0.064	
w. Scheduled Generation during the Period	KWh		340,499,810	330,707,060	✓
x. FCA Claim for the Period (vXw)	Rs		46307974.16	21,165,252	87,473,226


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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 Oct-18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.26911151	0.26136799	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.26911151	0.26136799	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000538223	0.000522736	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.268573287	0.260845254	
g	Amount charged by the Coal / Lignite Company	(Rs.)		495133272.69	471,438,350.45	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		9,398,378.78	-654,498.80	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		504,531,651.47	470,783,851.65	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1878.56230	1804.83963	
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1878.5623	1804.83963	
m	Transportation Cost Paid to railways	Rs		60911280.00	66363104.44	
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		226.80	254.42	
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			226.80	254.42	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2105.36	2059.26	
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3784.24	3768.00	
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-(tu))/(r)*(q/1000))/(1-v)	Rs/ KWh		1.525	1.498	
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		-0.002	-0.029	
z	Scheduled Generation during the Period	Kwh		331,527,500	296,018,750	
aa	FCA Claim for the Period (yX z)	Rs		-663055	-8,584,544	-9,247,599 ✓


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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 Oct-18	For Month of Nov-18	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.45224397	0.40887411
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-		
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.45224397	0.40887411
d	Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.003617952	0.003270993
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.448626018	0.405603117
g	Amount charged by the Coal / Lignite Company	(Rs.)		924820548.21	845283842.26
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-66,136,343.60	-55,310,484.83
i	Net amount Charged by Coal Company (g+h)	(Rs.)		858684204.61	789973357.43
j	Rate of Coal for the period Charged by Coal Company = $(i/(f \times 10^6))$	Rs/MT		1914.03	1947.65
k	Rate of Bonus payable to Coal Company	Rs/MT			
l	Net Rate of coal payable to coal company (j+k)	Rs/MT		1914.03	1947.65
m	Transportation Cost Paid to railways	Rs		103542367.00	109993138.00
n	Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		230.80	271.18
o	Other Charges (per Ton) towards transportation	Rs/MT			
p	Total per ton Transportation Charges (n+o)			230.80	271.18
q	Landed Price of Coal per MT ((l+p)	Rs/MT	1,535	2,144.83	2,219
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,521	3,527
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		1.526	1.576
x	ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373
y	Change in ECR (w-x)	Rs/ KWh		0.153	0.203
z	Scheduled Generation during the Period	Kwh		596,367,500	570,753,750
aa	FCA Claim for the Period (yX z)	Rs		91244227.5	115863011.3
					207,107,239 ✓

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