

O/o CE (EITC)
Receipt No. 230
Date 4 MAY 2019
DGM (IT) / SE (O)
EE. Bill.
Section



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

No.02-02/ACE-IVCAV 450

Raipur, Dt: 16.5.19

To,

The Chief Engineer (EITC),
CS Power Distribution Co. Ltd.,
Raipur.

Sub:- VCA charge to the consumers for Sixth bi-monthly period of FY 2018-19.

Ref:- i) CSERC MYT Regulations, 2015.

Rate of VCA charge for Sixth bi-monthly period of FY 2018-19 i.e. 01.02.19 to 31.03.19, calculated in accordance to formula and condition specified in CSERC MYT Regulation 2015, is tabulated below for deduction from monthly energy bill of all categories of consumers:-

1.	DLF consumers (applicable in all slab)	Rs. (-) 0.01 per unit
2.	Agriculture consumers	Rs. (-) 0.01 per unit
3.	Rest all categories of consumers	Rs. (-) 0.01 per unit

The above charge is to be deducted from energy bills of consumers for the consumption in the months of **May'19** and **Jun'19** payable in the months of **Jun'19** and **July'19**. It is therefore requested to kindly arrange to make suitable programme in SAP to implement above VCA charges in the energy bills of various consumers. Further information regarding VCA charge may be uploaded in website.

Chief Engineer (RA&PM)
CSPDCL: Raipur

Copy to:-

- 1) The Executive Director (O&M)/ (Rev.) CSPDCL, Raipur.
- 2) The Executive Director (DR)/(RCR)/(RRR)/(RJN-R)/ (BR)/
Chief Engineer(AR)/(JR)/(RGH-R), CSPDCL,
Durg/Raipur/Rajnandgaon/Bilaspur/Ambikapur/Jagdapur/Raigarh.
- 3) The Superintending Engineer (Circle)/(CityCircle)/(MT) CSPDCL, Raipur- I/II,
Mahasamund/Durg/Bilaspur/Raigarh/Janjgir/Korba/Jagdapur/ Kanker/
Rajnandgaon/Ambikapur/Kawardha/Baikunthpur.
- 4) The Executive Engineer (AMR Cell), CSPDCL, Raipur.
- 5) The Sr. Accounts Officer I/II, CSPDCL, Raipur /Bilaspur / Durg/ Ambikapur/

Computation of VCA Charges (6th bi-monthly period 2018-19)

(C) CHFC :-

Month	KTPS	HTPS	DSPM TPS	Korba(W) Extn.	Total Amount in Rs.
Feb-19	3,55,88,004	-19,06,023	-2,82,73,755	-20,09,590	33,98,635
Mar-19	-76,22,234	-1,61,01,132	-4,04,13,555	-1,42,61,489	-7,83,98,409
Total	2,79,65,770	-1,80,07,155	-6,86,87,310	-1,62,71,079	-7,49,99,774

(B) CHPP :-

(i)	Total units purchased from NTPC and NSPCL	: 1,41,04,68,400 KWh ✓
(ii)	Amount paid against units purchased	: Rs. 4,44,76,76,696 ✓
	Rate per unit	: Rs. 3.15 /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.0.03 /KWh
(v)	CHPP (in Rs.) (i)x(iv)	: Rs. 4,23,14,052 ✓
C.	Gross VCA (A+B) in Rs	: Rs.(-) 3,26,85,722 ✓
D.	Total quantum of power purchased during the period	: 5,11,27,21,487 Kwh
E.	Quantum of power purchased for sale to retail consumers of the State	: 4,51,32,42,307 KWh
F.	Allowable VCA (in Rs.)(C*(E/D))	: Rs. (-) 2,88,53,241
G.	Normative transmission & distribution losses as specified in Tariff order	: 16.54%
H.	Allowable VCA Charges(Rs./Kwh) (F/E*(1-G))	: Rs. (-) 0.01/KWh

VCA Charge to be ~~recoverable~~ ^{deducted} from monthly energy bills of various categories of consumers:

1	DLF consumers	Rs. (-) 0.01 per unit
2	Agriculture Consumers	Rs. (-) 0.01 per unit
3	Rest all categories	Rs. (-) 0.01 per unit

To be deducted from energy bill for the consumption in the months of May'19 and June'19 payable in the months of June'19 and July '19.

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Computation of CHPP

S.No.	Particulars		
1	Scheduled energy purchased from CGs during sixth bi-monthly period	Kwh	1410468400
2	Amount paid against units purchased	Rs.	4,44,76,76.696
	Average rate of power purchase	Rs/Kwh	3.15
3	Average rate of Power Purchase as per Tariff Order	Rs/Kwh	3.12
4	Difference in the average rate of PP	Rs/Kwh	0.03
5	CHPP(Change in the cost of power purchased from CGs)	Rs.	42314052

Computation of VCA (6th Bi-monthly)

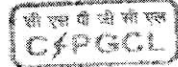
S.No.	Particulars		
1	CHFC	Rs	-74999774
2	CHPP	Rs	42314052
3	Gross VCA(sub total in Rs.)	CHFC+CHPP	Rs -32685722
4	Allowable VCA(in Rs.)	Gross VCA(in Rs.) \times Q_{Rs}/Q_{pp}	Rs -28853241
5	Allowable VCA(in Rs/Kwh)	Allowable VCA(in Rs.)/[Qrs*(1-L)]	Rs/Kwh -0.01

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Computation of Qpp and Qrs (6th Bi-monthly)

S No.	Particulars			
1	Quantum of actual power purchased from CSPGCL thermal Power stations	Q_1	2851421560	KwH
2	Quantum of actual power purchased from CSPGCL hydro Power stations(Bango)	Q_2	16461656	KwH
3	Quantum of actual power purchased from CSPGCL Renewable Power stations(Small Hydle Station of CSPGCL + CoGen Kawardha)	Q_3	8631000	KwH
4	Quantum of scheduled power purchased from CGs at state periphery (CSPTrdCL+NTPC+NSPCL+NPCIL+OHPCL+NHPCL+Bundle Power+SECI)	Q_4	1778893093	KwH
5	PGCIL actual losses for the bi-monthly period	L1	3.08%	
6	Quantum of scheduled power purchased from CGs at state periphery	$Q_5=Q_4(1-L1)$	1724103186	KwH
7	Quantum of actual power purchased from Renewable energy Sources	Q_6	199661484	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	88217500	KwH
10	Quantum of scheduled short term purchased through interstate route at the State periphery	$Q_9=Q_8(1-L1)$	85500401	KwH
11	Quantum of power purchased from other Sources(if any)(Short term + Border Village+Un scheduled)	Q_{10}	226942200	KwH
12	Total Quantum of power purchased	$Q_{pp}=Q_1+Q_2+Q_3+Q_5+Q_6+Q_7+Q_9+Q_{10}$	5112721487	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}	599479180	KwH
15	Quantum of power purchased for sale to retail consumers of the State	$Q_{RS}=Q_{pp}-Q_{PT}$	4513242307	KwH

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CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED
(A Govt. of C.G. Undertaking)

Office of the Executive Director (C&RA)

NO. 03-09/ Bills-15/ 281

Raipur Dtd.

30-Apr-2019

To

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

C.E. (RA&PM) CSPDCL Raipur	
Letter No.	
No.	788
Date	01.05.19

Sub: Fuel Cost Adjustment calculation for the 6th 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. **192,007,274** /- for the 6th Bi-Monthly period of FY 2018-19 (Feb-19 & Mar- 19). As per CSERC order the above FCA amount shall be claimed in two installments w.e.f. **Jun-19**

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Executive Director (C&RA)
CSPGCL: Raipur

02-

The Secretary, Chhattisgarh State Electricity Regulatory Commission, New Shanti Nagar Raipur. In compliance to directives given in tariff order dtd. 23/05/2015.

- 1 The E.D. (Fin) CSPGCL, Raipur
- 2 The E.D. (O&M:Gen) CSPGCL, Raipur
- 3 The C.E.(EITC)CSPDCL, Raipur. Kindly upload the same in Company web site (cspgcl.co.in/cspgcl) under the link Fuel Cost Adjustment- 6th Bi Monthly of FY 2018-19 (Feb-2019 to Mar-2019)
- 4 The S.O. to M.D. CSPGCL, Raipur
- 5 The S.O. to M.D. CSPDCL, Raipur
- 6 The Manager (B&CM) CSPGCL, Raipur

Sharma, A.E.

Fuel Cost Adjustment calculation for the 6th Bi-Monthly period of FY 2018-19.

All Figures in Rs.

Name of Plant	Feb-19	Mar-19	Total
KTPS	35588004	-7,622,234	27,965,770
HTPS	-1906023	-16,101,132	-18,007,155
DSPM TPS	-28273755	-40,413,555	-68,687,310
KW Extn	-2009590	-14,261,489	-16,271,079
MTTPS	136263484	130,743,564	267,007,048
Total	139,662,120	52,345,154	192,007,274

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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
Jun-19	13,982,885	-9,003,578	-34,343,655	-8,135,540	133,503,524	96,003,633
Jul-19	13,982,885	-9,003,577	-34,343,655	-8,135,539	133,503,524	96,003,633
Total	27,965,770	-18,007,155	-68,687,310	-16,271,079	267,007,048	192,007,274


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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 Feb-19	For Month of Mar-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.123583790	0.108104420	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.123583790	0.108104420	
d	Normative Transit & Handling Losses	%	1.15%	1.15%	1.15%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.001421214	0.001243201	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.122162576	0.106861219	
g	Amount charged by the Coal / Lignite Company	(Rs.)		212,132,307.17	181,234,228.02	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)				
i	Net amount Charged by Coal Company (g+h)	(Rs.)		212,132,307.17	181,234,228.02	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1736.48	1695.98	1717.58
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1736.480	1695.980	
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	1914.46	1873.96	1895.56
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,080.85	3,031	3,638	3,330
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		2.199	1.793	1.982
u	ECR as considered in Tariff order	Rs/ KWh	1.855	1.855	1.855	
v	Change in ECR (t-u)	Rs/ KWh		0.344	-0.062	
w	Scheduled Generation during the Period	KWh		103,453,500	122,939,250	
aa	FCA Claim for the Period (vXw)	Rs		35,588,004	-7,622,234	27,965,770

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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 Feb-19	For Month of Mar-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.363877	0.400861	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.363877	0.400861	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000727754	0.000801722	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.363149246	0.400059278	
g	Amount charged by the Coal / Lignite Company	(Rs.)		646248535.79	711932423.09	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-7729656	-39457305	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		638518879.79	672475118.09	
j	Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1758.28	1680.94	1717.74
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	1758.28	1680.94	1717.74
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	1,839.03	1,761.69	1,798.49
o	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,406.33	3,719	3,672	3,696
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		1.447	1.404	1.424
u	ECR as considered in Tariff order	Rs/ KWh	1.452	1.452	1.452	
v	Change in ECR (t-u)	Rs/ KWh		-0.005	-0.048	
w	Net Generation during the Period	KWh		381,204,500	335,440,250	
x	FCA Claim for the Period (vXw)	Rs		-1906023	-16101132	-18,007.155

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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 Feb-19	For Month of Mar-19	Total for period
a Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)		0.179223	0.197439	
b Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.179223	0.197439	
d Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e Normative Transit & Handling Losses (cXd)	(MMT)		0.000358446	0.000394878	
f Net coal / Lignite Supplied (c-e)	(MMT)		0.178864554	0.197044122	
g Amount charged by the Coal / Lignite Company	(Rs.)		318,301,517.65	350,653,282.99	
h Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-3807144	-19434195	
i Net amount Charged by Coal Company (g+h)	(Rs.)		314494373.65	331219087.99	
j Rate of Coal for the period Charged by Coal Company = (i/(f*10^6))	Rs/MT		1758.28	1680.94	1717.74
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	1758.28	1680.94	
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	1,839.03	1,761.69	1798.45
o Average GCV of coal / Lignite as fired	(kCal/Kg)	3,400.59	3,722	3,668	3,692
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		1.236	1.201	1.218
u ECR as considered in Tariff order	Rs/ KWh	1.243	1.243	1.243	
v Change in ECR (t-u)	Rs/ KWh		-0.007	-0.042	
w Scheduled Generation during the Period	KWh		287,084,310	339,559,250	
x FCA Claim for the Period (vXw)	Rs		-2009590.17	-14,261,489	-16,271,079

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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 Feb-19	For Month of Mar-19	Total for period
a	Quantity of Coal / Lignite supplied by Coal/Lignite	(MMT)		0.23796240	0.24555969	
b	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)				
c	Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.23796240	0.24555969	
d	Normative Transit & Handling Losses	%	0.20%	0.20%	0.20%	
e	Normative Transit & Handling Losses (cXd)	(MMT)		0.000475925	0.000491119	
f	Net coal / Lignite Supplied (c-e)	(MMT)		0.237486475	0.245068571	0.482555046
g	Amount charged by the Coal / Lignite Company	(Rs.)		434242474.03	446447453.25	
h	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		-13,562,556.23	-28,349,492.82	
i	Net amount Charged by Coal Company (g+h)	(Rs.)		420,679,917.80	418,097,960.43	
j	Rate of Coal for the period Charged by Coal Company = (i/(fX10^6))	Rs/MT		1771.38	1706.04	1738.20
k	Rate of Bonus payable to Coal Company	Rs/MT				
l	Net Rate of coal payable to coal compnay (j+k)	Rs/MT		1771.38	1706.04	
m	Transportation Cost Paid to railways	Rs		61702254.36	66141959.30	127844213.66
n	Transportation Charge rate paid to Railways (m/(fX10^6))	Rs/MT		259.81	269.89	264.93
o	Other Charges (per Ton) towards transportation	Rs/MT				
p	Total per ton Transportation Charges (n+o)			259.81	269.89	
q	Landed Price of Coal per MT ((l+p)	Rs./MT	1,921.22	2031.19	1975.93	2,003.13
r	Average GCV of coal / Lignite as fired	(kCal/Kg)	3,449.20	3928.71	3911.00	3919.39
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		1.418	1.385	1.401
x	ECR as considered in Tariff order	Rs/ KWh	1.527	1.527	1.527	
y	Change in ECR (w-x)	Rs/ KWh		-0.109	-0.142	
z	Scheduled Generation during the Period	Kwh		259,392,250	284,602,500	
aa	FCA Claim for the Period (yX z)	Rs		-28273755.25	-40413555	-68,687,310

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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 Feb-19	For Month of Mar-19	Total for period
Quantity of Coal / Lignite supplied by Coal/Lignite Company	(MMT)	-	0.23573330	0.33633159	
Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	-			
Coal supplied by Coal/Lignite Company (a+b)	(MMT)		0.23573330	0.33633159	
Normative Transit & Handling Losses	%	0.80%	0.80%	0.80%	
Normative Transit & Handling Losses (cXd)	(MMT)		0.001885866	0.002690653	
Net coal / Lignite Supplied (c-e)	(MMT)		0.233847434	0.333640937	0.567488371
Amount charged by the Coal / Lignite Company	(Rs.)		577182980.16	748707551.66	
Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)		23,574,182.02	-15,603,240.33	
Net amount Charged by Coal Company (g+h)	(Rs.)		600757162.18	733104311.33	
Rate of Coal for the period Charged by Coal Company $= (i/(f \times 10^6))$	Rs/MT		2569.01	2197.29	2350.45
Rate of Bonus payable to Coal Company	Rs/MT				
Net Rate of coal payable to coal company (j+k)	Rs/MT		2569.01	2197.29	
Transportation Cost Paid to railways	Rs		54470246.00	90836459.00	145306705
Transportation Charge rate paid to Railways $(m/(f \times 10^6))$	Rs/MT		232.93	272.26	256.05
Other Charges (per Ton) towards transportation	Rs/MT				
Total per ton Transportation Charges (n+o)			232.93	272.26	256.05
Landed Price of Coal per MT ((l+p)	Rs./MT	1,535	2,801.94	2,469.55	2606.50
Average GCV of coal / Lignite as fired	(kCal/Kg)	3,280.29	3,819	3,710	3,750
Normative SHR	Kcal/ KWh	2,378	2,378	2,378	
Normative Specific Oil Consumption	ml/ KWh	0.50	0.50	0.50	
GCV of Secondary Fuel (Oil)	Kcal/ml	10	10	10	
Normative Auxiliary Consumption	%	5.25	5.25	5.25	
ECR for the Period= $((s-tx)/r)/(q/1000)/(1-v)$	Rs/ KWh		1.838	1.667	1.75
ECR as considered in Tariff order	Rs/ KWh	1.373	1.373	1.373	
Change in ECR (w-x)	Rs/ KWh		0.465	0.294	
Scheduled Generation during the Period	Kwh		293,039,750	444,706,000	737,745,750
FCA Claim for the Period (yX z)	Rs		136263483.8	130743564	267,007,048

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