

Calculation in accordance with the Fuel Surcharge Formula in Paragraph A of Schedule -7B of the West Bengal Electricity Regulatory Commission (Terms & Condition of Tariff) Regulations, 2011 read with applicable Regulations

Calculation of MVCA for the month of JANUARY, 2024

Parameter	Details	Reference/Basis	Unit	Amount
From Latest Order Case No: TP-78/18-19 Dated 09.07.2021				
E _{sc}	Energy Sale to Consumers and Licensee as per Tariff Order	Para 3.2.4 Page 12 of Order dated 09.07.2021	MU	863.45
pp _{cost}	Power Purchase Cost allowed in Tariff Order	Para 3.6.3.6, Page 21 of Order dated 09.07.2021	Rs	3,18,34,38,000.00
fc	Fuel Cost allowed in the Tariff Order	Page 23	Rs	25,85,04,000.00
pp _{cost_ex}	Fuel Cost/power purchase cost allowed for sale to person other than licensee and consumers in the Tariff Order		Rs	0.00
TL	Normative transmission loss %	Not Applicable	%	0.00
DL	Normative distribution loss %	Para 3.4.1 Page 12 of order dated 09.07.2021	%	5.25%
Values for the period from the beginning of the year up to the Applicable month				
E _p	Total Power Purchase against bill		MU	681.47
E _g	Total sent out from own generation		MU	29.55
E _x	Total energy sold to persons other than consumers and licensee including swap out		MU	0.00
E _{p_PSP}	Net Power Drawal for pumping energy of Pumped Storage Project		MU	0.00
U _{lin}	Net Power Drawal in UI Mode		MU	0.00
U _{out}	Net Power Exported in UI Mode		MU	0.00
CTU _{loss}	Loss through inter state transmission system for import of power from different sources		MU	0.00
PP _{cost}	Total adjusted cost of power purchase from different sources		Rs	3,42,87,37,718.34
FC	Total fuel cost of generation		Rs	10,58,63,584.76
U _{lcostin}	Power purchase cost from U _{lin}		Rs	0.00
R-Ex	Revenue earned on account of part of variable cost only due to Energy sold against Ex		Rs	0.00
R-U _{out}	Revenue earned due to power exported in UI Mode		Rs	0.00
Value to be taken from the Order of Adhoc Variable Cost or Adhoc Power Purchase Cost				
Adhoc_V _{cost}	Adhoc Variable Cost or Adhoc Power Purchase Cost	Not Applicable	Rs./kWh	0.00
Values to be taken for the balance period of the year				
P _{proj}	Projected power purchase cost for the balance period of the year beyond the month under consideration for the balance energy projected to be procured		Rs	1,51,54,88,151.36
FC _{proj}	Projected fuel cost for the generating station of the Licensee for the balance period of the month under consideration		Rs	3,12,50,253.00
E _{proj}	Projected energy to be purchased for the balance period of the year		MU	235.17
EP_PSP _{proj}	Projected net drawal of pumping energy of the pump storage project for balance of the year		MU	0.00
EG _{proj}	Projected Ex Bus generation to be supplied from own generation station for the balance of the year		MU	7.69
EX _{proj}	Projected energy to be sold to a person other than consumer and licensee including swap out for the balance period of the year from the month under consideration to the end of the year		MU	0.00
R-EX _{proj}	Projected revenue to be earned on account of part of the variable cost due to projected energy sold against Ex _{proj}		Rs	0.00
Computation of MVCA for the applicable month				
To _{ENR}	Total energy supplied	$E_p + E_g + U_{lin} + E_{proj} + E_{g_proj}$	MU	953.88
To _{ENR_consumer}	Total energy supplied for the consumers and the Licensee	$To_{ENR} - U_{out} - E_x - E_{x_proj} - (E_{p_PSP} + E_{p_PSP_proj}) / (1 - TL)$	MU	953.88
MVC	Total Variable cost	$pp_{cost} + fc + U_{lcostin} + P_{proj} + FC_{proj} + \Delta_{adj}$	Rs	5,08,13,39,707.46
MVC _{consumer}	Monthly Variable Cost for the consumers and Licensee	$MVC - (R - E_x + R - U_{out} + R - E_{x_proj})$	Rs	5,08,13,39,707.46
E _{sc}	Energy Sales to Consumers and Licensee	$To_{ENR_consumer} \times (1 - TL \times 0.01) \times (1 - DL \times 0.01)$	MU	903.81
Δ _{adj}	Adjustment on the basis of cumulative total variable cost incurred from the start of 2023-24 upto the month under consideration	Delta Adjustment Sheet	Rs	0
MVC _{unit_consumer}	Rate of Variable Cost	$MVC_{consumer} / (E_{sc} \times 10^6)$	Rs./kWh	5.6222
mvc _{consumer}	Variable Cost considered in the Order by Commission	$pp_{cost} + fc - pp_{cost_ex}$	Rs	3,44,19,42,000.00
mvc _{unit_consumer}	Variable Cost considered in the Order by Commission	$mvc_{consumer} / (e_{sc} \times 10^6)$	Rs./kWh	3.9863
MVCA	Monthly Variable Cost adjustment in Paise/Unit	$(MVC_{unit_consumer} - mvc_{unit_consumer} - Adhoc_Vcost) \times 100$	Paise/kWh	163.59
			Rounded to 163 paise/kWh integer value in lower side	

* Note: MVCA of 163 p/u shall be levied for the period of January 2024 and onwards till further notification. Fuel & power purchase costs, in terms of extant regulations, to be further reconciled through appropriate FPPCA application.



Name of Source	Apr-23		May-23		Jun-23		Jul-23		Aug-23		Total upto last month (Nov-23)			Dec-23			Upto Present month						
	Rs Lakhs	p/unit	Rs Lakhs	p/unit	Rs Lakhs	p/unit	Rs Lakhs	p/unit	Rs Lakhs	p/unit	Rs Lakhs	Rs Lakhs	Rs Lakhs	Rs Lakhs	Rs Lakhs	Rs Lakhs	Rs Lakhs	Rs Lakhs	p/unit				
DVC-Radial Power	28.98	1382.48	477	24.70	1178.36	477	23.55	1123.32	477	24.56	1,171.61	4,77	18.62	887.98	165.22	7880.83	477	13.25	632.01	477	178.47	8512.84	477
DVC-Schedule Power	8.75	691.67	790	6.35	443.93	699	7.95	497.20	625	7.93	482.76	6,09	4.64	358.96	48.73	3488.10	716	5.83	410.13	704	54.56	3898.23	715
WBSEDCL	14.28	824.02	577	8.68	500.79	577	6.97	403.54	579	5.61	324.59	5,78	7.35	424.30	62.33	3599.93	578	5.81	338.48	582	68.14	3938.41	578
WBGEDCL	0.03	2.92	893	0.03	1.12	338	0.03	0.88	338	0.02	0.79	3,38	0.02	0.55	0.15	6.85	460	0.01	0.30	340	0.16	7.15	454
SECI-Hybrid RE	31.63	897.24	284	34.23	971.09	284	33.15	940.19	284	30.83	901.00	2,92	33.81	958.93	244.12	6949.93	285	22.96	651.24	284	267.08	7601.17	285
Other Sources (incl. O.A. Banking)	-0.97	501.58	-5180	9.37	1027.91	1097	10.66	1161.94	1090	18.26	1,398.04	7,66	14.94	1,541.37	92.54	9121.95	986	20.54	1207.64	588	113.07	10329.58	914
TOTAL POWER PURCHASE	82.71	4299.91	520	83.37	4123.21	495	82.31	4127.07	501	87.22	4,278.79	491	79.37	4172.10	613.08	31047.59	506	68.39	3239.79	474	681.47	34287.38	503
Net Generation from Own Source	5.24	200.37	382	6.80	241.90	356	4.64	138.00	298	-0.03		0	2.97	110.81	26.99	954.47	354	2.56	104.17	407	29.55	1058.64	358



Balance Period of the year

	As per approved Tariff Order	Projected for balance period	Projection methodology adopted	Applicable rate for balance energy	Projected for balance period
	2019-20*			p/unit	Rs Lakhs
Name of Source	MU	MU		L= Max(C,F,I)	M=L*K/10
DVC- Radial	140.16	39.75	D*3	477	1896.03
DVC-Schedule	0.00	17.48	D*3	716	1250.86
WBSEDCL	0.00	17.44	D*3	582	1015.43
WBGEDCL	0.96	0.03	D*3	460	1.23
SECI	0.00	68.88	D*3	285	1960.86
Other Sources (incl. OA, Banking)	718.43	91.61	D*3	986	9030.47
TOTAL POWER PURCHASE	859.55	235.17			15154.88
Net Generation from Own Source	75.69	7.69	D*3	407	312.50

* Last Applicable tariff order for IPCL pertains to FY2019-20

