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 MAY, 2023

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	82.74
E_G	Total sent out from own generation		MU	5.24
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
UI_{in}	Net Power Drawal in UI Mode		MU	0.00
UI_{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	42,85,77,307.71
FC	Total fuel cost of generation		Rs	2,06,35,681.00
$UIcost_{in}$	Power purchase cost from Ulin		Rs	0.00
$R\text{-}E_x$	Revenue earned on account of part of variable cost only due to Energy sold against Ex		Rs	0.00
$R\text{-}UI_{out}$	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	5,06,20,26,094.50
FC_{proj}	Projected fuel cost for the generating station of the Licensee for the balance period of the month under consideration		Rs	22,69,92,491.00
E_{proj}	Projected energy to be purchased for the balance period of the year		MU	910.13
$EP_PSP_{_proj}$	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	57.66
$Ex_{_proj}$	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
$R\text{-}Ex_{_proj}$	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				
Tot_{ENR}	Total energy supplied	$E_P+E_G+UI_{in}+E_{proj}+E_{G_proj}$	MU	1055.76
$Tot_{ENR_consumer}$	Total energy supplied for the consumers and the Licensee	$Tot_{ENR} - UI_{out} - E_x - E_{x_proj} - (E_{P_PSP} + E_{P_PSP_proj})/(1\text{-}TL)$	MU	1055.76
MVC	Total Variable cost	$pp_{cost} + fc + UI_{costin} + P_{proj} + FC_{proj} + \Delta adj$	Rs	5,73,82,31,574.21
$MVC_{consumer}$	Monthly Variable Cost for the consumers and Licensee	$MVC - (R\text{-}E_x + R\text{-}UI_{out} + R\text{-}E_{x\text{-}proj})$	Rs	5,73,82,31,574.21
E_{sc}	Energy Sales to Consumers and Licensee	$Tot_{ENR_consumer} \times (1 - TL \times 0.01) \times (1 - DL \times 0.01)$	MU	1000.33
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	5.7363
$mvc_{consumer}$	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	175.00
			Rounded to 175 paise/kWh integer value in lower side	

** Note: MVCA of 175 p/u shall be levied for the period of May 2023 and onwards till further notification. Fuel & power purchase costs, in terms of extant regulations, to be further reconciled through appropriate FPPCA application.*

Annexure-1

	Apr-23			Upto Present month		
Name of Source	MU	Rs Lakhs	p/unit	MU	Rs Lakhs	p/unit
	D	E	F	G	H	I
DVC-Radial Power	28.98	1382.48	477	28.98	1382.48	477
DVC-Schedule Power	8.75	575.18	657	8.75	575.18	657
WBSEDCL	14.28	823.75	577	14.28	823.75	577
WBGEDCL	0.03	1.11	339	0.03	1.11	339
SECI	31.63	905.26	286	31.63	905.26	286
Other Sources (incl. OA, Banking)	-0.93	598.00	-6396	-0.93	598.00	-6396
TOTAL POWER PURCHASE	**82.74**	**4285.77**	**518**	**82.74**	**4285.77**	**518**

Net Generation from Own Source	**5.24**	**206.36**	**394**	**5.24**	**206.36**	**394**

Annexure-2

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*				
Name of Source	MU	MU		p/unit	Rs Lakhs
	J	K		L= Max(C,F,I)	M=L*K/10
DVC- Radial	140.16	318.81	D*11	477	15207.33
DVC-Schedule	0	96.26	D*11	657	6326.94
WBSEDCL	0	157.04	D*11	577	9061.21
WBGEDCL	0.96	0.36	D*11	339	12.16
SECI	0	347.94	D*11	286	9957.87
Other Sources (incl. OA, Banking)	718.43	-10.28	D*11	-9777	10054.75
TOTAL POWER PURCHASE	**859.55**	**910.13**		**0**	**50620.26**
Net Generation from Own Source	**75.69**	**57.66**	D*11	**394**	**2269.92**

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