

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 DECEMBER, 2020

Parameter	Details	Reference/Basis	Unit	Amount
<b>From Latest Order Case No: TP-58/13 - 14 Dated 21.07.2016 and TP(R)-26/16-17 dated 17.02.2017</b>				
E <sub>sc</sub>	Energy Sale to Consumers and Licensee as per Tariff Order	Para 5.4 Page 75 of Order dated 21.07.2016	MU	820.00
pp <sub>cost</sub>	Power Purchase Cost allowed in Tariff Order	Para 1, Page A2 of Order dated 17.02.2017	Rs	3,44,59,66,000.00
f <sub>c</sub>	Fuel Cost allowed in the Tariff Order	Page 23	Rs	31,97,21,000.00
pp <sub>cost_ex</sub>	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 3.2.3 Page 17 of order dated 21.07.2016	%	5.25%
<b>Values for the period from the beginning of the year up to the Applicable month</b>				
E <sub>p</sub>	Total Power Purchase against bill		MU	515.18
E <sub>g</sub>	Total sent out from own generation		MU	25.34
E <sub>x</sub>	Total energy sold to persons other than consumers and licensee including swap out		MU	0.00
E <sub>p_PSP</sub>	Net Power Drawal for pumping energy of Pumped Storage Project		MU	0.00
U <sub>in</sub>	Net Power Drawal in UI Mode		MU	0.00
U <sub>out</sub>	Net Power Exported in UI Mode		MU	0.00
CTU <sub>loss</sub>	Loss through inter state transmission system for import of power from different sources		MU	0.00
PP <sub>cost</sub>	Total adjusted cost of power purchase from different sources		Rs	2,27,37,06,206.54
FC	Total fuel cost of generation		Rs	10,46,46,994.42
U <sub>costin</sub>	Power purchase cost fro U <sub>in</sub>		Rs	0.00
R-E <sub>x</sub>	Revenue earned on account of part of variable cost only due to Energy sold against Ex		Rs	0.00
R-U <sub>out</sub>	Revenue earned due to power exported in UI Mode		Rs	0.00
<b>Value to be taken from the Order of Adhoc Variable Cost or Adhoc Power Purchase Cost</b>				
Adhoc_V <sub>cost</sub>	Adhoc Variable Cost or Adhoc Power Purchase Cost	Not Applicable	Rs./kWh	0.00
<b>Values to be taken for the balance period of the year</b>				
P <sub>proj</sub>	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	2,23,61,60,178.71
FC <sub>proj</sub>	Projected fuel cost for the generating station of the Licensee for the balance period of the month under consideration		Rs	-
E <sub>proj</sub>	Projected energy to be purchased for the balance period of the year		MU	475.69
EP <sub>PSP_proj</sub>	Projected net drawal of pumping energy of the pump storage project for balance of the year		MU	0.00
EG <sub>proj</sub>	Projected Ex Bus generation to be supplied from own generation station for the balance of the year		MU	0.00
E <sub>x_proj</sub>	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-E <sub>x_proj</sub>	Projected revenue to be earned on account of part of the variable cost due to projected energy sold against Ex <sub>proj</sub>		Rs	0.00
<b>Computation of MVCA for the applicable month</b>				
To <sub>tENR</sub>	Total energy supplied	$E_p + E_g + U_{in} + E_{proj} + E_{g\_proj}$	MU	1016.21
To <sub>tENR_consumer</sub>	Total energy supplied for the consumers and the Licensee	$To_{tENR} - U_{out} - E_x - E_{x\_proj} - (E_{p\_PSP} + E_{p\_PSP\_proj}) / (1 - TL)$	MU	1016.21
MVC	Total Variable cost	$pp_{cost} + f_c + U_{costin} + P_{proj} + FC_{proj} + \Delta_{adj}$	Rs	4,61,45,13,379.68
MVC <sub>consumer</sub>	Monthly Variable Cost for the consumers and Licensee	$MVC - (R - E_x + R - U_{out} + R - E_{x\_proj})$	Rs	4,61,45,13,379.68
E <sub>sc</sub>	Energy Sales to Consumers and Licensee	$To_{tENR\_consumer} \times (1 - TL \times 0.01) \times (1 - DL \times 0.01)$	MU	962.8627176
$\Delta_{adj}$	Adjustment on the basis of cumulative total variable cost incurred from the start of 2020-21 upto the month under consideration	Delta Adjustment Sheet	Rs	0
MVC <sub>unit_consumer</sub>	Rate of Variable Cost	$MVC_{consumer} / (E_{sc} \times 10^6)$	Rs./kWh	4.7925
mvc <sub>consumer</sub>	Variable Cost considered in the Order by Commission	$pp_{cost} + f_c - pp_{cost\_ex}$	Rs	3,76,56,87,000.00
mvc <sub>unit_consumer</sub>	Variable Cost considered in the Order by Commission	$mvc_{consumer} / (E_{sc} \times 10^6)$	Rs./kWh	4.5923
MVCA	Monthly Variable Cost adjustment in Paise/Unit	$(MVC_{unit\_consumer} - mvc_{unit\_consumer} - Adhoc\_V_{cost}) \times 100$	Paise/kWh	20.02
				Rounded to 20 paise/kwh integer value in lower side

Name of Source	Total upto last month (Oct-20)			Nov-20			Upto Present month		
	MU	Rs Lakhs	p/unit	MU	Rs Lakhs	p/unit	MU	Rs Lakhs	p/unit
	A	B	C	D	E	F	G	H	I
DVC	27.08	1169.90	432	4.74	204.83	432	31.82	1374.73	432
WBSEDCL	7.84	453.73	578	0.99	57.52	579	8.84	511.25	579
WBGEDCL	0.31	15.70	500	0.01	0.53	500	0.32	16.23	500
TPTCL (Trader)	137.70	5285.51	384	0.00	0.00	0	137.70	5285.51	384
Other Sources (incl. OA, Banking)	252.54	11628.32	460	83.96	3921.03	467	336.50	15549.35	462
<b>TOTAL POWER PURCHASE</b>	<b>425.48</b>	<b>18553.15</b>	<b>436</b>	<b>89.71</b>	<b>4183.91</b>	<b>466</b>	<b>515.18</b>	<b>22737.06</b>	<b>441</b>
<b>Net Generation from Own Source</b>	<b>25.34</b>	<b>1046.47</b>	<b>413</b>	<b>0.00</b>	<b>0.00</b>	<b>0</b>	<b>25.34</b>	<b>1046.47</b>	<b>413</b>

## 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
	2016-17*	MU	MU		p/unit	Rs Lakhs
Name of Source	J	K			L= Max(C,F,I)	M=L*K/10
DVC	753.91	18.97		D*4	432	819.33
WBSEDCL	32.72	18.97		D*4	579	1099.26
WBGEDCL	1.56	0.04		D*4	500	2.12
Other Sources (incl. OA, Banking)	0	437.71		$J_{tot} - G_{tot} - K_{DVC} -$ $K_{WBSEDCL} - K_{WBGEDCL}$	467	20440.89
<b>TOTAL POWER PURCHASE</b>	<b>788.19</b>	<b>475.69</b>			<b>470</b>	<b>22361.60</b>
<b>Net Generation from Own Source</b>	<b>80.41</b>	<b>0.00</b>		<b>D*4</b>	<b>413</b>	<b>0.00</b>

\* Last Applicable tariff order for IPCL pertains to FY2016-17