DAMODAR VALLEY CORPORATION
दामोदर घाटी निगम

Monthly Variable Cost Adjustment (MVCA) on account of Power Purchase Cost only for the month of 11'2024

Notation	Particulars	Unit	Value mentioned in Tariff Order
TL	Normative Transmission Loss in %	%	0
DL	Normative Distribution Loss in % (**As per WBERC Tariff Regulation (Fourth Amendment), 2023 applicable from 01.04.2023**)(Page No:23)	%	2.75
e_{sc}	Energy Sale to consumer and Licensee in MU as per Tariff Order (Page No: 19)	MU	11996.67
pp_{cost}	Power Purchase Cost allowed in the Tariff order in Rs.	Rs.	6412768000
fc	Fuel Cost allowed in the tariff order in Rs,	Rs.	0
pp_{cost_ex}	Power Purchase cost/fuel cost for sale to person other than licensee and consumers as allowed in the tariff order in Rs.	MU	0

B) Value taken upto the month under consideration

Notation	Particulars	Unit	Total for DVC	Apportionment for the state of West Bengal @ 55.323%
UI_{in}	Net Power drawal (MU) in UI mode	MU	217.25	120.18
UI_{out}	Net Power exported (MU) in UI mode	MU	182.64	101.04
E_p	Total Power purchase (MU) against bill	MU	1664.39	920.74
E_g	Total sent out from own generation (MU) on normative basis (Excluding normative auxiliary consumption and transformation loss from gross generation)	MU	11879.53	6571.75
E_x	Energy sold (MU) to person other than licensee and consumers including swapout.	MU	0	0.00

E_{P_PPSP}	Net power drawal from pumping energy of Pumped Storage Project	MU	0	0.00
PP_{cost}	Total cost of Power purchase from different sources in Rs.	Rs.	7490096279	4143521261.66
FC	Total fuel cost of own generation as per normative parameter fixed by the Commission in Rs.	Rs.	0	0.00
$UIcost_{in}$	Power purchase cost for UIin in Rs.	Rs.	907141056	501830432.42
CTU_{loss}	Loss through inter state transmission system for import of power from different sources.	MU	66.94	37.03
$R\text{-}E_x$	Revenue earned in Rs. On account of part of variable cost only due to Energy sold against Ex	Rs.	0	0.00
$R\text{-}UI_{out}$	Revenue earned in Rs due to power exported in UI mode.	Rs.	263067804	145529109.25

C) Value taken from order of Adhoc Variable cost or Adhoc Power Purchase Cost if any

Notation	Particulars	Unit	Total for DVC	Apportionment for the state of West Bengal @ 55.323%
$Adhoc\_V_{cost}$	Adhoc_Adhoc Variable Cost or Adhoc Power Purchase Cost in Rs./kWh	Rs.	0	0

D) Value to be taken for the balance period of the year.

Notation	Particulars	Unit	Total for DVC	Apportionment for the state of West Bengal @ 55.323%
P_{Proj}	Projected power purchase cost in Rs for the balance period of the year	Rs.	4389618617	2428337019
FC_{Proj}	Projected fuel Cots for the balance period of the year	Rs.	0.00	0
E_{proj}	Projected energy in MU to be purchased for the balance year	MU	1163.50	644
$E_{P\_PSP\_Proj}$	Projected net drawal in MU of Pumping energy from pumped storage project during the balance period of the year	MU	0.00	0
E_{G_Proj}	Total projected energy to be sent out from own generation during the balance period of the year	MU	5939.76	3286
E_{x_Proj}	Projected energy to be sold (MU) to person other than licensee and consumers during the balance period of the year	MU	0.00	0

$R\_E_{x\_Proj}$	Projected Revenue earned on account of part of variable cost only due to Energy sold against Ex_Proj during balance period of the year	Rs.	0.00	0

E) Computation of MVCA

Tot_{ENR}	$E_p + E_g + UI_{in} - CTU_{loss} + E_{proj} + E_{G\_Proj}$	11505.17
$Tot_{ENR\_Consumer}$	$Tot_{ENR} - UI_{out} - E_x - E_{x\_Proj} - (E_{P\_PPSP} + E_{P\_PSP\_Proj})/(1\text{-}TL)$	11404.13
MVC	$PP_{cost} + FC + UIcost_{in} + P_{Proj} + FC_{Proj}$	7073688713
$MVC_{consumer}$	$MVC - (R\text{-}E_x + R\text{-}UI_{out} + R\_E_{x\_Proj})$	6928159604
E_{sc}	$Tot_{ENR\_Consumer} \times (1\text{-}TL \times 0.01) \times (1\text{-}DL \times 0.01)$	11090.52
$MVC_{unit\_consumer}$	$MVC_{consumer} / (E_{sc} \times 10^6)$	0.62
$mvc_{consumer}$	$pp_{cost} + fc - pp_{cost\_ex}$	6412768000
$mvc_{unit\_consumer}$	$mvc_{consumer} / (e_{sc} \times 10^6)$	0.53
MVCA	$(MVC_{unit\_consumer} - mvc_{unit\_consumer} - Adhoc\_V_{cost}) \times 100$ Paisa/kWh	9.01
MVCA rounded to nearest lower integer		**9.00**