



**DAMODAR VALLEY CORPORATION**  
दामोदर घाटी निगम

**Monthly Variable Cost Adjustment (MVCA) on account of Power Purchase Cost only for the month of 12'2022**

Notation	Particulars	Unit	Value mentioned in Tariff Order
TL	Normative Transmission Loss in %	%	0
DL	Normative Distribution Loss in %	%	2.2
$e_{sc}$	Energy Sale to consumer and Licensee in MU as per Tariff Order	MU	8863.9
$pp_{cost}$	Power Purchase Cost allowed in the Tariff order in Rs.	Rs.	5070207000
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 @ 56.09%
$UI_{in}$	Net Power drawal (MU) in UI mode	MU	126.71	71.07
$UI_{out}$	Net Power exported (MU) in UI mode	MU	44.90	25.19
$E_p$	Total Power purchase (MU) against bill	MU	2042.07	1145.40
$E_g$	Total sent out from own generation (MU) on normative basis (Excluding normative auxiliary consumption and transformation loss from gross generation)	MU	13515.25	7580.70
$E_x$	Energy sold (MU) to person other than licensee and consumers including swapout.	MU	0	0.00
$E_{P\_PSP}$	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.	9941011055	5575913101
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 Ulin in Rs.	Rs.	994852134	558012562
$CTU_{loss}$	Loss through inter state transmission system for import of power from different sources.	MU	60.62	34.00
$R-E_x$	Revenue earned in Rs. On account of part of variable cost only due to Energy sold against Ex	Rs.	0	0.00
$R-UI_{out}$	Revenue earned in Rs due to power exported in UI mode.	Rs.	67188424	37685987

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 @ 56.09%
Adhoc_V <sub>cost</sub>	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 @ 56.09%
P <sub>Proj</sub>	Projected power purchase cost in Rs for the balance period of the year	Rs.	2684888167	1505953773
FC <sub>Proj</sub>	Projected fuel Cots for the balance period of the year	Rs.	0.00	0
E <sub>proj</sub>	Projected energy in MU to be purchased for the balance year	MU	527.39	295.82
E <sub>P_PSP_Proj</sub>	Projected net drawal in MU of Pumping energy from pumped storage project during the balance period of the year	MU	0.00	0.00
E <sub>G_Proj</sub>	Total projected energy to be sent out from own generation during the balance period of the year	MU	4505.08	2526.90
E <sub>x_Proj</sub>	Projected energy to be sold (MU) to person other than licensee and consumers during the balance period of the year	MU	0.00	0.00
R <sub>E<sub>x</sub>_Proj</sub>	Projected Revenue earned on account of part of variable cost only due to Energy sold against E <sub>x</sub> _Proj during balance period of the year	Rs.	0.00	0.00

E) Computation of MVCA

Tot <sub>ENR</sub>	$E_p + E_g + U_{in} - CTU_{loss} + E_{proj} + E_{G\_Proj}$	11585.88
Tot <sub>ENR_Consumer</sub>	$Tot_{ENR} - U_{out} - E_x - E_{x\_Proj} - (E_{P\_PPSP} + E_{P\_PSP\_Proj}) / (1-TL)$	11560.70
MVC	$PP_{cost} + FC + U_{cost\_in} + P_{Proj} + FC_{Proj}$	7639879436
MVC <sub>consumer</sub>	$MVC - (R - E_x + R - U_{out} + R - E_{x\_Proj})$	7602193449
E <sub>sc</sub>	$Tot_{ENR\_Consumer} \times (1-TL \times 0.01) \times (1-DL \times 0.01)$	11306.36
MVC <sub>unit_consumer</sub>	$MVC_{consumer} / (E_{sc} \times 10^6)$	0.67
mvc <sub>consumer</sub>	$pp_{cost} + fc - pp_{cost\_ex}$	5070207000
mvc <sub>unit_consumer</sub>	$mvc_{consumer} / (e_{sc} \times 10^6)$	0.57
MVCA	$(MVC_{unit\_consumer} - mvc_{unit\_consumer} - Adhoc\_V_{cost}) \times 100 \text{ Paisa/kWh}$	10.04
<b>MVCA rounded to nearest lower integer</b>		<b>10.00</b>

Actual details of Power Purchase upto Dec'2022

Sources	Upto previous Month (Nov'22)			Current Month (Dec'22)			Cumulative of Current Month (Upto Dec'22)		
	Energy	Amount	Rate	Energy	Amount	Rate	Energy	Amount	Rate
	kWh	Rs	Rs/kWh	kWh	Rs	Rs/kWh	kWh	Rs	Rs/kWh
	A	B	C = B/A	D	E	F = E/D	G = A+D	H = B+E	I = H/G
NTPC									
TSTPS	8998881	36377614	4.04	1360776	6397056	4.70	10359657	42774670	4.13
KBUNL	0	43658571		0	0			43658571	
NHPC									
Rangit	28426425	106918206	3.76	1535300	9219198	6.00	29961725	116137404	3.88
Teesta	209928034	445890133	2.12	8353757	35921588	4.30	218281791	481811721	2.21
Supplementary Bill					82874157				
PTC									
Chukha	163848919	393499564	2.40	0	0	0.00	163848919	393499564	2.40
Kurichu	9368560	20329775	2.17			0.00	9368560	20329775	2.17
Tala	128588810	291408456	2.27			0.00	128588810	291408456	2.27
MPL	776555168	3215926016	4.14	96100930	397417937	4.14	872656098	3613343953	4.14
IEX	314213515	1795445434	5.71	4311687.5	30194158	7.00	314213515	1825639592	5.81
Renewable	269296049	1821618318	6.76	25492862	170564735	6.69	294788910	1992183053	6.76
Transmission and POSOCO Charge etc.	0	980257131			139967165			1120224296	
Total	1909224361	9151329218	4.79	137155312	872555995	6.36	2042067985	9941011055	4.87



Projection for rest of year of the FY 2022-23

Sources	Energy Approved in Order dtd. 17.06.2022	Projected energy for balance period	Basis of projection	Applicable Rate for balance energy	Projected Amount
	(MU)	(MU)		Rs./Kwh	Rs.
	J	K	L = Max of I & F	M = K *L	
NTPC					
TSTPS	19.42	3.45	G*3/9	4.70	16233705
KBUNL	54.97	0.00	PPA surrendered		0
NHPC					
Rangit	32.53	2.57	J-G	6.00	15422025
Teesta	207.33	21.50	Past Trend	4.30	92451114
PTC					
Chukha	169.23	5.38	J-G	2.40	12923204
Kurichu	49.25	39.88	J-G	2.17	86542726
Tala	179.05	50.46	J-G	2.27	114355343
MPL	1005	290.89	G*3/9	4.14	1204447984
IEX	135	15.00	Past Trend	7.00	105042948.7
Renewable	73.16	98.26	G*3/9	6.76	664061017.7
Transmission and POSOCO Charge etc.					373408098.7
Total		527.39		5.09	2684888167