



**DAMODAR VALLEY CORPORATION**  
दामोदर घाटी निगम

**Monthly Variable Cost Adjustment (MVCA) on account of Power Purchase Cost only for the month of 09'2023**

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)	%	2.75
e <sub>sc</sub>	Energy Sale to consumer and Licensee in MU as per Tariff Order	MU	8863.9
pp <sub>cost</sub>	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 <sub>cost_ex</sub>	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%
U <sub>in</sub>	Net Power drawal (MU) in UI mode	MU	67.52	37.87
U <sub>out</sub>	Net Power exported (MU) in UI mode	MU	49.72	27.89
E <sub>p</sub>	Total Power purchase (MU) against bill	MU	1529.07	857.66
E <sub>g</sub>	Total sent out from own generation (MU) on normative basis (Excluding normative auxiliary consumption and transformation loss from gross generation)	MU	9013.23	5055.52
E <sub>x</sub>	Energy sold (MU) to person other than licensee and consumers including swapout.	MU	0	0.00
E <sub>p_PPSP</sub>	Net power drawal from pumping energy of Pumped Storage Project	MU	0	0.00
PP <sub>cost</sub>	Total cost of Power purchase from different sources in Rs.	Rs.	7527764390	4222323046
FC	Total fuel cost of own generation as per normative parameter fixed by the Commission in Rs.	Rs.	0	0.00
U <sub>icost_in</sub>	Power purchase cost for U <sub>in</sub> in Rs.	Rs.	967174122	542487965
CTU <sub>loss</sub>	Loss through inter state transmission system for import of power from different sources.	MU	47.13	26.43
R-E <sub>x</sub>	Revenue earned in Rs. On account of part of variable cost only due to Energy sold against Ex	Rs.	0	0.00
R-U <sub>out</sub>	Revenue earned in Rs due to power exported in UI mode.	Rs.	574785057	322396939

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%
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Adhoc_V <sub>cost</sub>	Adhoc_Adhoc Variable Cost or Adhoc Power Purchase Cost in Rs./kWh	Rs.	0	0
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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.	5889291856	3303303802
FC <sub>Proj</sub>	Projected fuel Costs 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	1149.45	644.73
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	9013.23	5055.52
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 Ex_Proj during balance period of the year	Rs.	0.00	0.00

E) Computation of MVCA

Tot <sub>ENR</sub>	$E_p + E_g + UI_{in} - CTU_{loss} + E_{proj} + E_{G\_Proj}$	11624.87
Tot <sub>ENR_Consumer</sub>	$Tot_{ENR} - UI_{out} - E_x - E_{x\_Proj} - (E_{P\_PSP} + E_{P\_PSP\_Proj}) / (1-TL)$	11596.98
MVC	$PP_{cost} + FC + UI_{cost}_{in} + P_{Proj} + FC_{Proj}$	8068114813
MVC <sub>consumer</sub>	$MVC - (R - E_x + R - UI_{out} + R_{E_x\_Proj})$	7745717874
E <sub>sc</sub>	$Tot_{ENR\_Consumer} \times (1-TL \times 0.01) \times (1-DL \times 0.01)$	11278.06
MVC <sub>unit_consumer</sub>	$MVC_{consumer} / (E_{sc} \times 10^6)$	0.69
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	$(MVC_{unit\_consumer} - mvc_{unit\_consumer} - Adhoc\_V_{cost}) \times 100$ Paisa/kWh	11.48
<b>MVCA rounded to nearest lower integer</b>		<b>11.00</b>

Actual details of Power Purchase upto Sep'2023 in FY 2023-24

Sources	Upto previous Month			Current Month (Sep'23)			Cumulative of Current Month (Upto Sep'23)		
	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	6204686	39872634	6.43	1332752	3760936	2.82	7537438	43633570	5.79
KBUNL	19963956	105430178		6643728	34432296	5.18	26607684	139862474	5.26
Supplementary Bill		164359			5360183			5524542	
NHPC									
Rangit	13673100	56627455	4.14	3878025	14000466	3.61	17551125	70627921	4.02
Teesta	130177670	278663185	2.14	30027508	59629593	1.99	160205178	338292778	2.11
Supplimentary Bill		4547075			-1596649			2950426	
PTC									
Chukha	67188039	161358795	2.40	17896463	42980146	2.40	85084502	204338941	2.40
Kurichu	9666375	22039335	2.28	3291873	7505470	2.28	12958248	29544805	2.28
Tala	50320147	114226734	2.27	14531840	32987277	2.27	64851987	147214011	2.27
Supplementary Bill		2534312			2444431			4978743	
MPL	478914290	2105975682	4.40	100694250	399732047	3.97	579608540	2505707729	4.32
Exchange Purchase	340257242	1663404133	4.89	91471383	550202477	6.02	431728624	2213606609	5.13
	0	0							
Renewable	127339377	896799327	7.04	15601945	121787155	7.81	142941323	1018586481	7.13
	0	0							
Transmission and POSOCO Charge etc.		644089538			158805821			802895359	
Total	1243704882	6095732741	4.90	285369767	1432031648	5.02	1529074649	7527764390	4.92

Projection for rest of year of the FY 2023-24

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	7.54	G*6/6	5.79	43633570
KBUNL	54.97	26.61	G*6/6	5.26	139862474
NHPC					
Rangit	32.53	14.98	J-G	4.02	60276865
Teesta	207.33	47.12	J-G	2.11	99509811
PTC					
Chukha	169.23	84.15	J-G	2.40	202083830
Kurichu	49.25	36.29	J-G	2.28	82745193
Tala	179.05	114.20	J-G	2.27	259229491
MPL	1005	579.61	G*6/6	4.32	2505707729
Exchange Purchase	135	96.02	Past Trend	6.02	577562516
Renewable	73.16	142.94	G*6/6	7.81	1115785017
Transmission and POSOCO Charge etc.					802895359
Total		1149.45		5.12	5889291856