



DAMODAR VALLEY CORPORATION
दामोदर घाटी निगम

Monthly Variable Cost Adjustment (MVCA) on account of Power Purchase Cost only for the month of 03'2023

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%
U_{in}	Net Power drawal (MU) in UI mode	MU	171.85	96.39
U_{out}	Net Power exported (MU) in UI mode	MU	58.56	32.84
E_p	Total Power purchase (MU) against bill	MU	2459.98	1379.80
E_g	Total sent out from own generation (MU) on normative basis (Excluding normative auxiliary consumption and transformation loss from gross generation)	MU	18309.65	10269.88
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.	12833485572	7198302057
FC	Total fuel cost of own generation as per normative parameter fixed by the Commission in Rs.	Rs.	0	0.00
U_{cost_in}	Power purchase cost for U_{in} in Rs.	Rs.	1662382455	932430319
CTU_{loss}	Loss through inter state transmission system for import of power from different sources.	MU	72.58	40.71
$R-E_x$	Revenue earned in Rs. On account of part of variable cost only due to Energy sold against Ex	Rs.	0	0.00
$R-U_{out}$	Revenue earned in Rs due to power exported in UI mode.	Rs.	283752749	159156917

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 _{cost}	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 _{Proj}	Projected power purchase cost in Rs for the balance period of the year	Rs.	0	0
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	0.00	0.00
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	0.00
E _{G_Proj}	Total projected energy to be sent out from own generation during the balance period of the year	MU	0.00	0.00
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	0.00
R _{E_x_Proj}	Projected Revenue earned on account of part of variable cost only due to Energy sold against E _x _Proj during balance period of the year	Rs.	0.00	0.00

E) Computation of MVCA

Tot _{ENR}	$E_p + E_g + UI_{in} - CTU_{loss} + E_{proj} + E_{G_Proj}$	11705.37
Tot _{ENR_Consumer}	$Tot_{ENR} - UI_{out} - E_x - E_{x_Proj} - (E_{P_PPSP} + E_{P_PSP_Proj}) / (1-TL)$	11672.52
MVC	$PP_{cost} + FC + UI_{cost}_{in} + P_{Proj} + FC_{Proj}$	8130732376
MVC _{consumer}	$MVC - (R - E_x + R - UI_{out} + R - E_{x_Proj})$	7971575459
E _{sc}	$Tot_{ENR_Consumer} \times (1-TL \times 0.01) \times (1-DL \times 0.01)$	11415.73
MVC _{unit_consumer}	$MVC_{consumer} / (E_{sc} \times 10^6)$	0.70
mvc _{consumer}	$pp_{cost} + fc - pp_{cost_ex}$	5070207000
mvc _{unit_consumer}	$mvc_{consumer} / (e_{sc} \times 10^6)$	0.57
MVCA	$(MVC_{unit_consumer} - mvc_{unit_consumer} - Adhoc_V_{cost}) \times 100$ Paisa/kWh	12.63
MVCA rounded to nearest lower integer		12.00

Actual details of Power Purchase upto Mar'2023

Sources	Upto previous Month (Feb'23)			Current Month (Mar'23)			Cumulative of Current Month (Upto Mar'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	12922863.46	54859263	4.25	1378141	7047252	5.11	14301004.46	61906515	4.33
KBUNL	0	43658571		0	0			43658571	
NHPC									
Rangit	30444375	119904776	3.94	1188400	8144357	6.85	31632775	128049133	4.05
Teesta	230549857	536987077	2.33	8676202	35539871	4.10	239226059	572526948	2.39
Supplementary Bill					2064819			10813538	
PTC									
Chukha	163851512	393505791	2.40	8944	21480	2.40	163860456	393527271	2.40
Kurichu	9368560	20329775	2.17	0	0	0.00	9368560	20329775	2.17
Tala	128588810	291408456	2.27	0	0	0.00	128588810	291408456	2.27
Supplementary Bill					2491095			2491095	
MPL	986922138	4203039380	4.26	94517280	423311408	4.48	1081439418	4626350788	4.28
IEX	367855755	2182981329	5.93	19308330	94960598	4.92	387164085	2277941927	5.88
Renewable	371716198	2657789383	7.15	32684337	220998210	6.76	404400534.5	2878787593	7.12
Transmission and POSOCO Charge etc.	0	1352975470			172718492			1525693962	
Total	2302220068	11857439271	5.15	157761634	967297582	6.13	2459981702	12833485572	5.22

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	0.00	G	0.00	0
KBUNL	54.97	0.00	PPA surrendered		0
NHPC					
Rangit	32.53	0.00	J-G	0.00	0
Teesta	207.33	0.00		0.00	0
PTC					
Chukha	169.23	0.00	J-G	0.00	0
Kurichu	49.25	0.00	J-G	0.00	0
Tala	179.05	0.00	J-G	0.00	0
MPL	1005	0.00	G	0.00	0
IEX	135	0.00		0.00	0
Renewable	73.16	0.00	G	0.00	0
Transmission and POSOCO Charge etc.					0
Total		0.00		0.00	0