



Monthly Variable Cost Adjustment (MVCA) on account of Power Purchase Cost only for the month of 11'2023

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 _{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	106.48	59.72
UI _{out}	Net Power exported (MU) in UI mode	MU	54.38	30.50
E _p	Total Power purchase (MU) against bill	MU	1884.00	1056.74
E _g	Total sent out from own generation (MU) on normative basis (Excluding normative auxiliary consumption and transformation loss from gross generation)	MU	11895.97	6672.45
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.	9522455791	5341145453

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.	1477951211	828982834
CTU _{loss}	Loss through inter state transmission system for import of power from different sources.	MU	60.76	34.08
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.	688671100	386275620

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 _{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 @ 56.09%
P _{Proj}	Projected power purchase cost in Rs for the balance period of the year	Rs.	3076142713	1725408447
FC _{Proj}	Projected fuel Costs 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	693.80	389.15
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	5947.99	3336.22
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 Ex_Proj during balance period of the year	Rs.	0.00	0.00

E) Computation of MVCA

Tot _{ENR}	$E_p + E_g + UI_{in} - CTU_{loss} + E_{proj} + E_{G_Proj}$	11480.21
Tot _{ENR_Consumer}	$Tot_{ENR} - UI_{out} - E_x - E_{x_Proj} - (E_{P_PPSP} + E_{P_PSP_Proj}) / (1 - TL)$	11449.71
MVC	$PP_{cost} + FC + UI_{cost} + P_{Proj} + FC_{Proj}$	7895536735
MVC _{consumer}	$MVC - (R - E_x + R - UI_{out} + R - E_{x_Proj})$	7509261115
E _{sc}	$Tot_{ENR_Consumer} \times (1 - TL \times 0.01) \times (1 - DL \times 0.01)$	11134.84
MVC _{unit_consumer} r	$MVC_{consumer} / (E_{sc} \times 10^6)$	0.67
mvc _{consumer}	$pp_{cost} + fc - pp_{cost_ex}$	5070207000
mvc _{unit_consumer}	$mvc_{consumer} / (e_{sc} \times 10^6)$	0.57
MVCA	$(MVC_{unit_consumer} - mvc_{unit_consumer} - Adhoc_V_{cost}) \times 100 \text{ Paisa/kWh}$	10.24
MVCA rounded to nearest lower integer		10.00

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

Sources	Upto previous Month			Current Month (Nov'23)			Cumulative of Current Month (Upto Nov'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	8856094	47384599	5.35	1282783	3268667	2.55	10138876	50653266	5.00
KBUNL	33000791	173868420	5.27	6354544	31948841	5.03	39355335	205817261	5.23
Supplementary Bill		8282810			6671008			14953818	
NHPC									
Rangit	21301275	84443565	3.96	2378400	10999220	4.62	23679675	95442785	4.03
Teesta	163348040	345243918	2.11	0	0	0.00	163348040	345243918	2.11
Supplementary Bill		1353777			-146032			1207745	
PTC									
Chukha	100280313	240833201	2.40	0	0	0.00	100280313	240833201	2.40
Kurichu	13052186	29758984	2.28	0	0	0.00	13052186	29758984	2.28
Tala	68442334	155364099	2.27	0	0	0.00	68442334	155364099	2.27
Supplementary Bill		4978743						4978743	
MPL	670693830	2897469885	4.32	100237800	436617280	4.36	770931630	3334087165	4.32
Exchange Purchase	535956704	2877090720	5.37	0	0	0.00	535956704	2877090720	5.37
Renewable	153844698	1112424784	7.23	4973294	43123197	8.67	158817992	1155547981	7.28
Transmission and POSOCO Charge etc.	0	897019757			114456348			1011476105	
Total	1768776265	8875517262	5.02	115226821	646938529	5.61	1884003085	9522455791	5.05

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	5.07	G*4/8	5.00	25326633
KBUNL	54.97	19.68	G*4/8	5.23	102908631
NHPC					
Rangit	32.53	8.85	J-G	4.62	40929479
Teesta	207.33	43.98	J-G	2.11	92957982
PTC					
Chukha	169.23	68.95	J-G	2.40	165589569
Kurichu	49.25	36.20	J-G	2.28	82531016
Tala	179.05	110.61	J-G	2.27	251079403
MPL	1005	385.47	G*4/8	4.36	1679017653
Exchange Purchase	135	0.00	Past Trend	0.00	0
Renewable	73.16	15.00	Past Trend	8.67	130064295.1
Transmission and POSOCO Charge etc.					505738052.5
Total		693.80		4.43	3076142713