

Calculation of MFCA in accordance with the Fuel Surcharge Formula in Paragraph B of Schedule - 7B of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011

Hiranmaye Energy Limited

a) Values taken from the Order dated 22nd July, 2022 in Case No: TP - 97 /20-21

Details	Parameters	Unit	Amount
Normative Auxiliary Consumption	AUX _n	%	10.50
Normative oil consumption rate	Oil _n	ml/kWh	1
Normative gross station heat rate of power station	SHR _n	kCal/kWh	2477.15
Normative transit and handling loss	T _L	%	0.8
Average Energy cost for sent out energy as per Tariff Order	EC _T	Rs/kWh	3.248

b) Values for the Month - Dec 2022

Details	Parameters	Unit	Amount
Sent out energy from the Power Station	E _g	MU	151.43
Price of Oil	Oil _{price}	Rs/KL	79,488.69
Heat Value of Oil	Oil _{gcv}	kCal/L	10,755.80
Heat Value of Coal Purchased	Coal _{gcv}	kCal/kg	3,130.15
Average coal price	Coal _{price}	Rs/MT	3,779.76

c) Value to be taken from the Order of Adhoc Variable Cost or Adhoc Power Purchase Cost (if any)

Details	Parameters	Unit	Amount
Adhoc Fuel Cost	Adhoc_F _{cost}	Rs/kWh	0

d) Computation of MFCA for the month of Jan 2023

Details	Parameters	Formula	Unit	Amount
Normative generation of the power station	G _n	$E_g / (1 - \text{AUX}_n \times 0.01)$	MU	169.20
Total cost on normative oil consumption	Oil _c	$G_n \times \text{Oil}_n \times \text{Oil}_{price}$	Rs	1,34,49,308.68
Heat generated from oil consumption	Oil _{Heat}	$G_n \times \text{Oil}_n \times \text{Oil}_{gcv} \times 10^3$	kCal	1,81,98,57,324.69
Total Normative heat required for sent out generation	T _H	$G_n \times \text{SHR}_n \times 10^6$	kCal	4,19,12,82,44,469.27
Heat required from coal (Primary Fuel)	F _H	$T_H - \text{Oil}_{Heat}$	kCal	4,17,30,83,87,144.58
Normative coal consumption	Coal _{con}	$F_H / (\text{Coal}_{gcv} \times 1000)$	MT	1,33,318.95
Normative coal required	Coal _{req}	$\text{Coal}_{con} / (1 - T_L \times 0.01)$	MT	1,34,394.11
Total coal cost on normative coal required	TC _c	$\text{Coal}_{req} \times \text{Coal}_{price}$	Rs	50,79,76,935.18
Average energy cost for sent out energy	EC _{avg}	$(\text{TC}_c + \text{Oil}_c) / (E_g \times 10^6)$	Rs/kWh	3.44
Monthly fuel cost adjustment for per unit of sent out energy	MFCA	$(\text{EC}_{avg} - \text{EC}_T - \text{Adhoc_F}_{cost}) \times 100$	paise/kWh	19.53

Applicable MFCA for January 2023 = 19 paise/kWh

* Fuel related cost payable for the preceding month has been taken based on presently approved road transportation cost and fuel cost to the extent bill received and verified.

While all other components of charges to the extent available within the permissible timeline as prescribed in the regulations have been considered, claims and reconciliation at this stage are provisional and continuing. Fuel costs in terms of applicable regulations shall be prayed through appropriate petition(s).

