

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 25th August 2021 in Case No: TP - 97 /20-21

Details	Parameters	Unit	Amount
Normative Auxiliary Consumption	AUX <sub>n</sub>	%	10.50
Normative oil consumption rate	Oil <sub>n</sub>	ml/kWh	1
Normative gross station heat rate of power station	SHR <sub>n</sub>	kCal/kWh	2477.15
Normative transit and handling loss	T <sub>L</sub>	%	0.8
Average Energy cost for sent out energy as per Tariff Order	EC <sub>T</sub>	Rs/kWh	3.2315

b) Values for the Month - August 2021

Details	Parameters	Unit	Amount
Sent out energy from the Power Station	E <sub>g</sub>	MU	33.57
Price of Oil	Oil <sub>price</sub>	Rs/KL	58,514.71
Heat Value of Oil	Oil <sub>GCV</sub>	kCal/L	10,730.00
Heat Value of Coal Purchased	Coal <sub>GCV</sub>	kCal/kg	3,013.93
Average coal price	Coal <sub>price</sub>	Rs/MT	4,292.52

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 <sub>cost</sub>	Rs/kWh	0

d) Computation of MFCA for the month of September 2021

Details	Parameters	Formula	Unit	Amount
Normative generation of the power station	G <sub>n</sub>	$E_g / (1 - AUX_n \times 0.01)$	MU	37.51
Total cost on normative oil consumption	Oil <sub>c</sub>	$G_n \times Oil_n \times Oil_{price}$	Rs	21,94,988.09
Heat generated from oil consumption	Oil <sub>Heat</sub>	$G_n \times Oil_n \times Oil_{GCV} \times 10^3$	kCal	40,25,00,882.68
Total Normative heat required for sent out generation	T <sub>H</sub>	$G_n \times SHR_n \times 10^6$	kCal	92,92,21,86,536.31
Heat required from coal (Primary Fuel)	F <sub>H</sub>	$T_H - Oil_{Heat}$	kCal	92,51,96,85,653.63
Normative coal consumption	Coal <sub>con</sub>	$F_H / (Coal_{GCV} \times 1000)$	MT	30,697.31
Normative coal required	Coal <sub>req</sub>	$Coal_{con} / (1 - T_L \times 0.01)$	MT	30,944.87
Total coal cost on normative coal required	T <sub>Cc</sub>	$Coal_{req} \times Coal_{price}$	Rs	13,28,31,621.82
Average energy cost for sent out energy	EC <sub>avg</sub>	$(T_{Cc} + Oil_c) / (E_g \times 10^6)$	Rs/kWh	4.02
Monthly fuel cost adjustment for per unit of sent out energy	MFCA	$(EC_{avg} - EC_T - Adhoc\_F_{cost}) \times 100$	paise/kWh	79.04

Applicable MFCA for Sep 2021 = 79 paise/kWh

