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 30 Jun 2021, in Case No: TP - 82 / 19-20

Details	Parameters	Unit	Amount
Normative Auxiliary Consumption	Auxn	%	10.50
Normative oil consumption rate	Oiln	ml/kWh	1
Normative gross station heat rate of power station	SHRn	kCal/kWh	2477.15
Normative transit and handling loss	Tı	%	0.8
Average Energy cost for sent out energy as per Tariff Order	ЕСт	Rs/kWh	2.9618

## b) Values for the Month - June 2021

Details	Parameters	Unit	Amount 93.61	
Sent out energy from the Power Station	Eg	MU Rs/KL kCal/L kCal/kg		
Price of Oil	Oilprice		56,289.03 10640 3,078.00	
Heat Value of Oil	Oilgcv			
Heat Value of Coal Purchased	Coalgcv			
Average coal price	Coalprice	Rs/MT	4,249.32	

# 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_Fcost	Rs/kWh	

## d) Computation of MFCA for the month of July 2021

Details	Parameters	Formula	Unit	Amount
Normative generation of the power station	Gn	Eg / (1-Auxn x 0.01)	MU	104.59
Total cost on normative oil consumption	Oilc	Gn x Oiln x Oilprice	Rs	5887083.93
Heat generated from oil consumption	OilHeat	Gn x Oiln x Oilgcv x 10^3	kCal	1112802529.61
Total Normative heat required for sent out generation	Тн	Gn x SHRn x 10^6	kCal	259076953592.18
Heat required from coal (Primary Fuel)	FH	TH-OilHeat	kCal	257964151062.57
Normative coal consumption	Coalcon	Fн / (Coalgcv x 1000)	MT	83809.02
Normative coal required	Coalreg	Coalcon / (1- TL x 0.01)	MT	84484.90
Total coal cost on normative coal required	TCc	Coalreg x Coalprice	Rs	359003769.67
Average energy cost for sent out energy	ECavg	(TCc + Oilc) / (Eg x 10^6)	Rs/kWh	3.8982
Monthly fuel cost adjustment for per unit of sent out energy	MFCA	(ECavg - ECT - Adhoc_Fcost) x 100	paise/kWh	93.64

Applicable MFCA for July 2021 = 93 paise/kWh

