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 31 May 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	Tι	%	0.8
Average Energy cost for sent out energy as per Tariff Order	ЕСт	Rs/kWh	2.9618

b) Values for the Month - May 2021

Details	Parameters	Unit	Amount
Sent out energy from the Power Station	Eg	MU	33.38
Price of Oil	Oilprice	Rs/KL	55635.22
Heat Value of Oil	Oilgcv	Oilgcv kCal/L	
Heat Value of Coal Purchased	Coalgcv	kCal/kg	3085.86
Average coal price	Coalprice	Rs/MT	3685.36

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	0

d) Computation of MFCA for the month of June 2021

Details	Parameters	Formula	Unit	Amount
Normative generation of the power station	Gn	Eg / (1-Auxn x 0.01)	MU	37.30
Total cost on normative oil consumption	Oilc	Gn x Oiln x Oilprice	Rs	2074976.14
Heat generated from oil consumption	OilHeat	Gn x Oiln x Oilgcv x 10^3	kCal	387879329.61
Total Normative heat required for sent out generation	Тн	Gn x SHRn x 10^6	kCal	92388007821.23
Heat required from coal (Primary Fuel)	Fн	Тн-ОіІн _{еаt}	kCal	92000128491.62
Normative coal consumption	Coalcon	Fн / (Coalgcv x 1000)	MT	29813.45
Normative coal required	Coalreq	Coalcon / (1- TL x 0.01)	MT	30053.88
Total coal cost on normative coal required	TCc	Coalreq x Coalprice	Rs	110759365.85
Average energy cost for sent out energy	ECavg	(TCc + Oilc) / (Eg x 10^6)	Rs/kWh	3.38
Monthly fuel cost adjustment for per unit of sent out	MFCA	(ECavg - ECT -	noise /k/M/h	41.05
energy	IVIFCA	Adhoc_Fcost) x 100	paise/kWh	41.85

Applicable MFCA for June 2021 = 41 paise/kWh

