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	1.00
Normative gross station heat rate of power station	SHRn	kCal/kWh	2477.15
Normative transit and handling loss	TL	%	0.80
Average Energy cost for sent out energy as per Tariff Order	ЕСт	Rs/kWh	2.9618

b) Values for the Month - July 2021

Details	Parameters	Unit	Amount	
Sent out energy from the Power Station	Eg	MU	37.53	
Price of Oil	Oilprice	Rs/KL	60,085.12	
Heat Value of Oil	Oilgcv	kCal/L	10730.00	
Heat Value of Coal Purchased	Coalgov	kCal/kg	2,918.88	
Average coal price	Coalprice	Rs/MT	4,296.74	

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	C	

d) Computation of MFCA for the month of August 2021

Details	Parameters	Formula	Unit	Amount
Normative generation of the power station	Gn	Eg / (1-Auxn x 0.01)	MU	41.93
Total cost on normative oil consumption	Oilc	Gn x Oiln x Oilprice	Rs	2519546.92
Heat generated from oil consumption	OilHeat	Gn x Oiln x Oilgcv x 10^3	kCal	449940670.39
Total Normative heat required for sent out generation	Тн	Gn x SHRn x 10^6	kCal	103874234078.21
Heat required from coal (Primary Fuel)	Fн	Тн-Oilнeat	kCal	103424293407.82
Normative coal consumption	Coalcon	Fн / (Coalgcv x 1000)	MT	35432.87
Normative coal required	Coalreq	Coalcon / (1- TL x 0.01)	MT	35718.62
Total coal cost on normative coal required	TCc	Coalreq x Coalprice	Rs	153473478.25
Average energy cost for sent out energy	ECavg	(TCc + Oilc) / (Eg x 10^6)	Rs/kWh	4.1565
Monthly fuel cost adjustment for per unit of sent out energy	MFCA	(ECavg - ECT - Adhoc_Fcost) x 100	paise/kWh	119.47

Applicable MFCA for Aug 2021 = 119 paise/kWh

