

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 Condition of Tariff) Regulations, 2011 and subsequent amendments

Adhunik Power & Natural Resource Limited

a Value as per Tariff order (as determined by Hon'ble WBERC in order dated 06.06.2024 case no. TP-100/22-23)

Details	Parameters	Unit	Amount
Normative Auxiliary Consumption	AUX _n	%	9
Normative Oil Consumption rate	Oil _n	ml/kWh	1
Normative gross station heat rate of power station	SHR _n	kCal/kWh	2387
Normative transit and handling loss	T _L	%	0.8
Average Energy cost for sent out energy as per Tariff Order	EC _T	Rs/kWh	2.205

b Values for the Month- Jun 2024

Jun-24

Details	Parameters	Unit	Linkage	Non-Linkage Coal/Op
Sent out energy from the power station	E _g	MU	34.66	
Price of Oil	Oil _{price}	Rs/KL	77654	
Heat Value of Oil	Oil _{GCV}	kCal/L	9413	
Heat Value of Coal Purchased*	Coal _{GCV}	kCal/kg	3547.70	2686.47
Average Coal Price	Coal _{price}	Rs/MT	3636.56	4212.72

*(Less 120 Kcal/kg for handling and storage loss factored in wtd GCV consumed)

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 Coal Requirement for the month of Jun 2024

Details	Parameters	Formulas	Unit	Amount
Sent out energy from the power station	G _n	$E_g / (1 - \text{Aux}_n \times 0.01)$	MU	38.09
Total cost on normative oil consumption	Oil _c	$G_n \times \text{Oil}_n \times \text{Oil}_{price}$	Rs	2957807
Heat generated from oil consumption	Oil _{Heat}	$G_n \times \text{Oil}_n \times \text{Oil}_{GCV} \times 10^3$	kCal	358537032
Total Normative heat required for sent out generation	T _H	$G_n \times \text{SHR}_n \times 10^6$	kCal	90919780769
Heat required from coal (Primary Fuel)	F _H	$T_H - \text{Oil}_{Heat}$	kCal	90561243737
Shakti Linkage Coal Consumed	S Coal _{con}		MT	22007
Heat Utilized from Shakti Coal	F _{SHU}	$S \text{ Coal}_{GCV} \times S \text{ Coal}_{con}$	kCal	78074727849
Balance Heat from Other Source	F _{HB}	$F_H - F_{SHU}$	kCal	12486515888
Other Source Coal Consumed	N Coal _{con}	$F_{HB} / (\text{Coal}_{GCV} \times 1000)$	MT	4648
Total coal cost on normative coal required	TC _c	$(S \text{ Coal}_{con} \times S \text{ Coal}_{price}) + (N \text{ Coal}_{con} \times N \text{ Coal}_{price})$	Rs	99610551
Average energy cost for sent out energy	EC _{avg}	$(TC_c + \text{Oil}_c) / (E_g \times 10^6)$	Rs/kWh	2.959
Monthly fuel cost adjustment for per unit of sent out energy	MFCA	$(EC_{avg} - EC_T - \text{Adhoc}_F_{cost}) \times 100$	paise/kWh	75.41

Applicable MFCA for Jun 2024 = 75 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, claim and reconciliation at this stage are provisional and continuing. Fuel cost in terms of applicable regulations shall be prayed through appropriate petition(s)

