सत्यमेव जयते

भारत सरकार
Government of India
विद्युत् मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
तापीय परियोजना योजना एवं विकास प्रभाग
Thermal Project Planning & Development Division

No.219/GC/BO/TPI/CEA/2019/322 **Dated: 27th March, 2019**

Subject: Norms for Coal consumption in Thermal Power Plants to be effective from 01st April, 2019

The Government vide Cabinet Secretariat D.O. letter No. CCEN07/2019(ix) dated 07.03.2019 had approved the following:

> 3.3 Approval with regard to ACQ based on efficiency: ACQ per MW entitlements for all thermal power plants, irrespective of their age or technical parameters, shall be calculated based on Normative Station Heat Rate with upper ceiling of 2600 kcal/kwh.

Based on the approval of the Government, normative coal requirement for different sizes of power plants has been revised. An upper ceiling of 2600 kcal/kWh has been considered where the normative station heat rate is higher. A copy of the revised Coal consumption norms is enclosed at Annexure. The revised norms will come into effect from 01st April, 2019.

Encl: A/a

27/3/2019

(एन. एस. मण्डल)
मुख्य अभियंता

1. The Principal Secretary/ Secretary (Energy), All State Governments and UTs
2. The CMD of CIL/SCCL
3. The CMDs of NTPC, DVC, NLC

Copy for kind information to:
Joint Secretary (Thermal), Ministry of Power

Copy to:
Director (IT), CEA – with a request to upload on CEA website.

Central Electricity Authority
TPP&D Division
Sewa Bhawan, R.K. Puram, New Delhi – 110066

The normative coal requirement for different sizes of power plants for determination of ACQ (Max. Heat Rate 2600 kcal/kWh)

Effective Date: 01.04.2019

Grade of Coal	GCV of Coal (kcal/kg)	CERC allowed storage loss (kcal/kg)	GCV considered (kcal/kg)	Subcritical units				Supercritical units $
				Less than 100 MW	100 MW to less than 200 MW	200 MW to less than 250 MW *	250 MW and above $	
				Unit Heat Rate (kcal/kWh)				
				2600	2600	2500	2375	2250
				Annual coal consumption at 85% PLF (Tonnes per MW per Annum)				
G4	6100	85	6015	3219	3219	3095	2940	2785
G5	5800	85	5715	3388	3388	3257	3094	2931
G6	5500	85	5415	3575	3575	3438	3266	3094
G7	5200	85	5115	3785	3785	3639	3457	3275
G8	4900	85	4815	4021	4021	3866	3673	3479
G9	4600	85	4515	4288	4288	4123	3917	3711
G10	4300	85	4215	4593	4593	4416	4196	3975
G11	4000	85	3915	4945	4945	4755	4517	4279
G12	3700	85	3615	5355	5355	5149	4892	4634
G13	3400	85	3315	5840	5840	5615	5335	5054
G14	3100	85	3015	6421	6421	6174	5865	5557
G15	2800	85	2715	7131	7131	6856	6514	6171

Note(s):

\# CERC had notified the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 on 7th March, 2019 which would be applicable for the period 2019-24. Proviso 43(2) of the regulations provides for calculation of Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis. In determination of ECR, Weighted Average Gross calorific value of coal as received, in kCal per kg for coal based stations less 85 kCal/kg on account of variation during storage at generating station is being considered by the Commission. Accordingly, less 85kCal/kg has been considered in GCV while arriving at the annual coal consumption.

* In case the main steam pressure is 150 ata or above the Unit Heat Rate shall be reduced by 100 kcal/kWh

$ In case of units of 500 MW and above size including Supercritical units having Motor Driven Boiler Feed Pump (MDBFP), the unit heat rate shall be reduced by 50 kcal/kWh.

a. Following formula may be used for conversion of coal consumption to MTPA per 1000 MW:
MTPA per 1000 MW = (Tonnes per MW per Annum)/1000

b. The transit and handling losses shall be as per norms prescribed in Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 which is 0.2% for pithead and 0.8% for non-pithead stations.

c. These norms will be applicable for Captive Power Plants also.