

CALORIFIC VALUE OF FUELS

Sr. No.	Fuel	Approx heating value Kcal/Kg	
		Natural State	Dry state
A	BIOMASS		
1	Wood	1500	3500
2	Cattle dung	1000	3700
3	Bagasse	2200	4400
4	Wheat and rice straw	2400	2500
5	Cane trash, rice husk, leaves and vegetable wastes	3000	3000
6	Coconut husks, dry grass and crop residues	3500	3500
7	Groundnut shells	4000	4000
8	Coffee and oil palm husks	4200	4200
9	Cotton husks	4400	4400
10	Peat	6500	6500
B	FOSSIL FUELS		
1	Coal		4000-7000
2	Coke		6500
3	Charcoal		7000
4	Carbon		8000
5	Fuel oil		9800
6	Kerosene and diesel		10000
7	Petrol		10800
8	Paraffin		10500
9	Natural gas		8600
10	Coal gas		4000
11	Electrical (Kcal(KW))		860
12	Bio gas(Kcal/cu mtr) (12 kg of dung produces 1 cu. Mtr gas)		4700-6000

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Type of Material	Ash (%)	Heat of Combustion Kcal
Charcoal	4.5	7213
Bagasse	1.8	4380
Sugarcane	10	3996
Jute Waste	3	4428
Palm Husk	4.9	3900
Tea Waste	3.8	4237
Wood Chips	1.2	4785
Paddy Straw	15.5	3469
Wheat Straw	8	4100
Mustard Stalk	3.4	4200
Mustard Shell	3.7	4300
Bamboo Dust	8	4160
Forestry Waste	7	3000
Babool [Wood]	0.9	4707
Sunflower Stalk	4.3	4300
Soya bean Husk	4.1	4170
Groundnut shells	2.4	4626
Briquettes of bark	3.4	4487
Coffee waste No.1	2	4371
Coffee waste No. 2	5	4434
Coffee waste No. 3	1.7	4438
Briquettes of chips	3	4800
Briquettes of paper	1.5	4841
Castor Seed Shells	8	3862
Saw Dust Briquettes	8.2	3898
Cotton Stalks / Chips	3	4252
Briquettes of sawdust	0.7	4654
Briquettes of rice husk	15	3881
Briquettes of bark and binder	4.8	4459
Briquettes of groundnut shells	2.8	4661
Briquettes of straw and coal dust	6.1	4826
Briquettes of clean chopped straw	5.3	4403
Straw + coal dust + rape seed waste	3.8	4100