

ठोस जैव ईंधन — ईंधन विशिष्टताएँ और
श्रेणियाँ — कृषि और जड़ी - बूटियों के
अवशेषों से प्राप्त छर्रे

**Solid Biofuels — Fuel
Specifications and Classes —
Pellets from Agro and Herbaceous
Residues**

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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Solid Mineral Fuels and Solid Biofuels Sectional Committee had been approved by the Petroleum, Coal and Related Products Division Council.

Pellets from agro and herbaceous residues are manufactured from biomass originating from agriculture, herbaceous, fruit, and other renewable organic matter derived from trees, plants, crops, animal, municipal, agro-residue and agro-industrial waste or aquatic biomass, as well as blends or mixtures of woody and non-woody biomass.

This standard covers pellets for domestic and industrial use. Thermally treated biomass pellets (for example, torrefied pellets) are not included in this standard.

In general, agro and herbaceous residues have higher content of ash forming elements and produce ashes with lower melting temperature compared to most woody biomass. Different growing and soil conditions of the herbaceous or fruit biomass may influence the fuel ash composition. This may result in fouling, slagging and corrosion inside boilers. These problems are especially related to materials that have high content of potassium (K) and silicon (Si) and low content of calcium (Ca). The content of chlorine (Cl), phosphorus (P) and potassium (K) in the material may form chlorides and phosphates and other chemical compounds resulting in high hydrochloric acid emissions and chemically active ash causing corrosion. Special attention should be paid to the risk of corrosion in boilers and flue gas systems. Blending of agro and herbaceous residues with woody biomass can improve combustion characteristics.

Considerable assistance has been derived from ISO 17225-6 'Solid biofuels — Fuel specifications and classes Part 6: Graded non-woody pellets' in development of this standard. Since, only agro residues and herbaceous residues are generally used non-woody biomass in India, the title, scope and the requirements have been modified when compared with ISO 17225-6. Terminology, few requirements, and sampling are same as mentioned in ISO 17225-6. Assistance has also been derived from report "Development of Standards and Guidelines for densified biomass products in Indian Context", produced under Indo-German Technical operation project.

The composition of the Committee, responsible for the formulation of this standard is given in [Annex C](#).

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SOLID BIOFUELS — FUEL SPECIFICATIONS AND CLASSES — PELLETS FROM AGRO AND HERBACEOUS RESIDUES

1 SCOPE

This standard prescribes the fuel quality classes and specifications of pellets produced from agro and other herbaceous residues.

NOTES

- 1 Blends and mixtures include blends and mixtures from the main origin-based solid biofuel groups woody biomass, herbaceous biomass, fruit biomass and aquatic biomass. Blends are intentionally mixed biofuels, whereas mixtures are unintentionally mixed biofuels. The origin of the blend and mixture is to be described using ISO 17225-1 : 2021, [Table 1](#). If solid biofuel blend or mixture contains chemically treated material, it shall be stated.
- 2 Thermally treated biomass pellets (for example, torrefied pellets) are not included in the scope of this standard.

2 REFERENCES

The standards listed in [Annex A](#) contain provisions, which through reference in the text constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreement, based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards.

3 TERMINOLOGY

For the purpose of this standard, the definitions given in IS 18721 and in addition to, the following definitions shall apply.

3.1 Additive — Material which is intentionally introduced into the fuel feed stock to improve quality of fuel (for example, combustion properties), to reduce emissions or to make production more efficient.

NOTE — Trace amounts of grease or other lubricants that are introduced into the fuel processing stream as part of normal mill operations are not considered as additives.

3.2 Biofuel Pellet — Densified biofuel made with or without additives usually with a cylindrical form, random length typically 3 mm to 40 mm and

diameter upto 25 mm and broken ends, produced by compressing biomass.

3.3 Chemical Treatment — Any treatment with chemicals other than air, water or heat.

NOTE — Examples of chemical treatment are listed in informative Annex C of ISO 17225-1.

3.4 Non-woody Biomass — Biomass originating from agriculture, herbaceous, fruit or aquatic biomass as well as blends or mixtures of woody and non-woody biomass.

3.5 Non-woody Pellet — Biofuel pellet (*see* [3.2](#)) made from non-woody biomass (*see* [3.4](#)).

4 REQUIREMENTS

4.1 The material shall comply with the requirements of non-woody pellets given in [Table 1](#) and [Fig 1](#).

4.2 In general, chemical treatment before harvesting of biomass does not need to be stated.

4.2.1 However, the process of chemical treatment before harvesting need to be mentioned in the following cases:

- a) If any operator in the fuel supply chain has reason to suspect serious contamination of the biomass;
- b) The soil (for example, coal slag heaps) or if planting has been done specifically for the chemical sequestration; and
- c) Biomass has been fertilized by sewage sludge (originating from wastewater treatment or chemical process).

In such cases, fuel analysis shall be done to identify chemical impurities such as halogenated organic compounds or heavy metals.

4.2.2 In case of raw materials belonging to chemically treated herbaceous residue as per [Table 1](#) of ISO 17225-1, the actual origin of the raw material shall be clearly reported.

4.3 Further analysis may not be required, if data for chemical or physical properties is available.

4.4 The amount of fines shall be reported before leaving the final point of loading for delivery to the end-user (see [Table 1](#)), to ensure that the end-user receives pellets with a low level of fines. While delivering pellets to the end-user, distributors should take appropriate measures to maintain this low level of fines.

4.5 To ensure that pellets maintain their quality, the handling and storage (including the equipment) shall be appropriate at different stages of supply or delivery chain ending to the end-user storage.

NOTE — The fines requirements are included to ensure small-scale users, while operating their combustion plant/appliances are protected from handling and combustion issues.

5 PACKING AND MARKING

5.1 Packing

The material shall be as agreed between the purchaser and the supplier.

5.2 Marking

5.2.1 When the material is packed in packages, packages shall be marked with the following:

- Name of the feedstock material or blend or mixtures;
- Name of manufacturer and his recognized trade-mark, if any;
- Month and year of manufacture;

- Net mass of the material;
- Dimensions of the pellets;
- Lot number; and
- Any other statutory requirements.

5.2.2 If pellets are available in general market for sale in addition to above information the following basic quality parameters shall be stated:

- Gross calorific value;
- Proximate analysis; and
- Name and proportion (in percent) of the feedstock material or blend or mixtures used for preparation of the pellet.

5.2.3 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the rules and regulations framed thereunder, and the products may be marked with the Standard Mark.

6 SAMPLING

The sampling and sample preparation shall be done as per ISO 18135 or ISO 21945 and IS 18640 respectively.

7 TEST METHODS

Tests shall be conducted according to the method of test referred in col (5) and col (6) of [Table 1](#).

Table 1 Requirements of Pellets Derived from Agro and Herbaceous Residues.

(Clauses [1](#), [4.1](#), [4.2.2](#), [4.4](#) and [7](#), [Annex B](#))

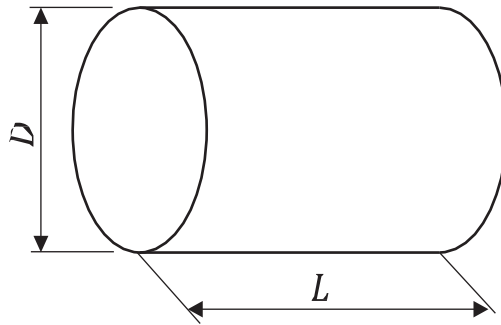
Sl. No	Characteristic	Requirements		Methods of Test, Ref to	
		A	B	IS/ Annex	ISO
(1)	(2)	(3)	(4)	(5)	(6)
i)	Origin and source ¹⁾	Agro residues and other herbaceous biomass		—	—
ii)	Diameter and length, mm	To be reported		IS 17643	—
iii)	Moisture, percent by mass, wet basis	≤ 14		≤ 14	IS 17655 (Part 1)/ IS 17655 (Part 2)

Sl. No	Characteristic	Requirements		Methods of Test, Ref to	
		A	B	IS/ Annex	ISO
(1)	(2)	(3)	(4)	(5)	(6)
iv)	Ash, percent by mass, dry		≤ 15	≤ 15	IS 17653
v)	Mechanical durability ²⁾ , percent mass		≥ 95	≥ 95	IS 18557 (Part 1)
vi)	Fines, percent mass		≤ 5	≤ 5	IS 17656
vii)	Additives ³⁾ , percent mass	Type and amount to be reported.		—	—
viii)	Gross calorific value, kcal/kg	A1: ≥ 2 800 to < 3 000 A2: ≥ 3 000	B1: ≥ 2 800 to < 3 000 B2: ≥ 3 000	IS 17654	—
ix)	Particle size, mm	a) Pass through 2 mm mesh size, percent, <i>Min</i> = 75 b) Pass through 3 mm mesh size, percent = 100	—	} B	—
x)	Bulk density, kg/m ³	To be reported			IS 17642
xi)	Nitrogen, percent mass in dry	To be reported		IS 17832	—
xii)	Sulphur, percent mass in dry	To be reported		IS 17833	—
xiii)	Chlorine, percent mass in dry	To be reported		IS 17833	
xiv)	Arsenic (As), mg/kg dry	To be reported		—	ISO 16968
xv)	Cadmium (Cd), mg/kg dry	To be reported		—	ISO 16968
xvi)	Chromium (Cr), mg/kg dry	To be reported		—	ISO 16968
xvii)	Copper (Cu), mg/kg dry	To be reported		—	ISO 16968
xviii)	Lead (Pb), mg/kg dry	To be reported		—	ISO 16968
xix)	Mercury (Hg), mg/kg dry	To be reported		—	ISO 16968
xx)	Nickel (Ni), mg/kg dry	To be reported		—	ISO 16968

Sl. No	Characteristic	Requirements		Methods of Test, Ref to	
		A	B	IS/ Annex	ISO
(1)	(2)	(3)	(4)	(5)	(6)
xxi)	Zinc (Zn), mg/kg dry	To be reported		—	ISO 16968

NOTES

- 1 Name and proportion (in percent) of the feedstock material or blend and mixtures used for preparation of the pellet shall be reported. Saw dust and other permitted woody biomass may be used in the blend to achieve the desired quality.
- 2 At final point of loading in bulk transport (at the time of loading) and in small (up to 20 kg) and big bags (at time of packing).
- 3 Type and amount of additive(s) to aid production, delivery or combustion (for example, pressing aids, slagging inhibitors or any other additives like starch, corn flour, potato flour, vegetable oil, and lignin) shall be reported.



All dimensions are in mm

FIG. 1 DIMENSIONS OF PELLETS

where

D = diameter; and

L = length.

ANNEX A

(Clause 2)

LIST OF REFERRED STANDARDS

<i>IS No./Other standards</i>	<i>Title</i>	<i>IS No./Other standards</i>	<i>Title</i>
IS 17642 : 2021/ ISO 17828 : 2015	Solid biofuels — Determination of bulk density	IS 17832 : 2022/ ISO 16948 : 2015	Solid biofuels — Determination of total content of carbon, hydrogen and nitrogen
IS 17643 : 2021/ ISO 17829 : 2015	Solid biofuels — Determination of length and diameter of pellets	IS 17833 : 2022/ ISO 16994 : 2016	Solid biofuels — Determination of total content of sulfur and chlorine
IS 17653 : 2021/ ISO 18122 : 2015	Solid biofuels — Determination of ash content	IS 18557 : (Part 1) : 2024/ ISO 17831-1 : 2015	Solid biofuels — Determination of mechanical durability of pellets and briquettes: Part 1 Pellets
IS 17654 : 2021/ ISO 18125 : 2017	Solid biofuels — Determination of calorific value	IS 18640 : 2024	Solid biofuels — Sample preparation
IS 17655 : (Part 1) : 2021/ ISO 18134-1 : 2015	Solid biofuels — Determination of moisture content — Oven dry method: Part 1 Total moisture — Reference method	IS 18721 : 2024	Solid biofuels — Vocabulary
IS 17655 : (Part 2) : 2021/ ISO 18134-2 : 2017	Solid biofuels — Determination of moisture content — Oven dry method: Part 2 Total moisture — Simplified method	ISO 16968 : 2015	Solid biofuels — Determination of minor elements
IS 17656 : 2021/ ISO 18846 : 2016	Solid biofuels — Determination of fines content in samples of pellets	ISO 17225-1 : 2021	Solid biofuels — Fuel specifications and classes : Part 1 General requirements
		ISO 18135 : 2017	Solid biofuels — Sampling
		ISO 21945 : 2020	Solid biofuels — Simplified sampling method for small scale applications

ANNEX B

[[Table 1](#) and SI No. (ix)]

DETERMINATION OF PARTICLE SIZE

B-1 SIEVE ANALYSIS

Sample of non-torrefied biomass pellets will be tested for particle size distribution after pulverizing 50 g crushed pellets sample in a lab pulverizer for

1.5 min or any fixed time period as found suitable by testing laboratory incharge and measuring the passing proportion of the pulverized sample by sieving it through 2 mm and 3 mm mesh size sieve.

ANNEX C

(Foreword)

COMMITTEE COMPOSITION


Solid Mineral Fuels and Solid Biofuels Sectional Committee, PCD 07

<i>Organization</i>	<i>Representative(s)</i>
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