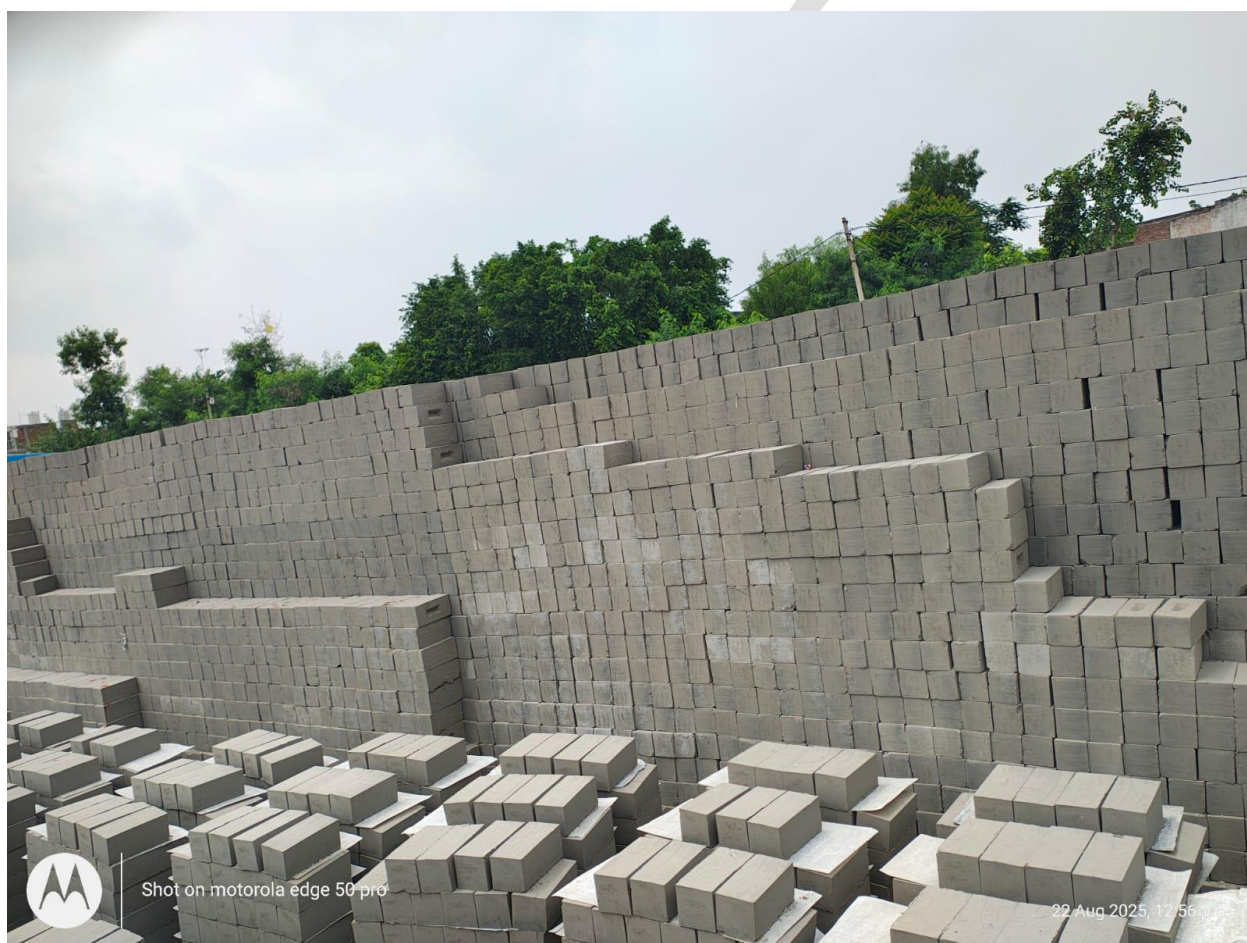


POWER BRICKS CORPORATION

COMPANY PROFILE



Contact Detail:-

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COMPANY PROFILE:

ABOUT US:

Founded in 2004 & registered under the MSME as a Small-Scale Industry (SSI), we operate from Chhapraula, Gautam Buddha Nagar, Uttar Pradesh. Specializing in fly ash bricks & paver tiles, our mission is to deliver high-quality, cost-efficient masonry products tailored to the needs of large-scale, reputed construction clients.

OUR MANUFACTURING CAPACITY:

Our facility features multiple semi-automatic fly ash brick machines with a daily output of up to **80,000 bricks** in a single shift. Additionally, our paver tile line produces around **2,000 units per day**. We have the flexibility to extend operations across **two or three shifts** to meet higher order demands.

QUALITY & STANDARDS:

As one of the oldest fly ash brick manufacturers in the NCR region, we comply with **ISO 12894:2002 & ISO 16720:2018** standards. With a consistent inventory of **3–4 million bricks**, our dedication to quality control, adherence to specifications, & prompt delivery has earned the trust of many construction agencies.

WHY CHOOSE US:

- **Economical & Sustainable:** Lower production costs, reduced energy use, & eco-conscious manufacturing.
- **High Strength & Consistency:** Uniform sizing & consistent quality minimize material waste & enhance structural durability.
- **Scalable Production:** Flexibility in shift operations to meet both planned & urgent project needs.

1. CREDENTIALS:

The list of customers is very big however out of them some of very prestigious brands are as follows:

A) PRIVATE SECTOR:

S.No	Customers	S.No	Customers
1	B.L. Kashyap & Sons	11	Kohli construction constructions
2	Mahagun (India) Pvt. Ltd.	12	Arihant construction
3	Ahluwalia Contracts Pvt. Ltd	13	Kamal Associates
4	Nimbus (BL Gupta)	14	ATS
5	Krishna Build-well Pvt Ltd	15	Key Stone
6	Aar cee Construction Pvt Ltd	16	Wave Group
7	Larsen & Toubro: L&T India	17	Infra 13
8	Exotica Housing & Infra	18	Varindra Construction
9	Stellar venture Pvt. Ltd	19	Roshan Real Estate
10	JD Builders	20	Lumos infra Pvt. Ltd

B) GOVERNMENT PROJECTS:

S.No	Customers	S.No	Customers
1	Military Engineering Services (MES)	4	Delhi Development Authority (DDA)
2	Central Public Works Department (CPWD)	5	Municipal Corporation of Delhi
3	Provision Work Department (PWD)	6	DRDO

We have supplied fly ash bricks to above Gov organization through their various contractors at various locations like Delhi, Dehradun, Meerut, Bareilly, NOIDA, Ghaziabad etc. & at all the sites we have a proven record of quality & timely delivery

2. RAW MATERAIL, TECHNICAL FEATURES & ADVANTAGES:

Fly Ash bricks are made of different chemical chemistry having different bonds however most effective composition is as follows. The mix can be extensively used in all sorts building constructional activities similar to that of common burnt clay bricks.

A) RAW MATERIAL COMPOSITION:

CONTENTS	COMPOSITION
FLY ASH	70%
CEMENT	10% (IS Code 269)
LIME	
STONE DUST	15%
GYPSUM	5%

B) TECHNICAL FEATURES & ADVANTAGES:

1. **Strength & Load-Bearing Capacity:** 75~110 Kg/Cm² Load bearing capacity of a fly ash bricks as compared to burnt clay bricks is subsequently higher & tailor made with uniform shape & repeatability.
2. **Lightweight:** Up-to 18% lighter Fly ash bricks are lighter than traditional clay bricks, reducing the overall load on structures. This can also make them easier to transport & handle.
3. **Thermal Insulation:** 0.90 to 1.05 W/m.K (Watts/meter kelvin) Fly ash bricks provide superior thermal insulation compared to conventional bricks. This can contribute to energy-efficient buildings by reducing the need for excessive heating or cooling.
4. **Low Water Absorption:** ≤ 20% water absorption Fly ash bricks have lower water absorption rate compared to clay bricks. This helps to prevent issues like dampness & efflorescence (salt deposits) in walls. Their low permeability reduces water penetration & seepage
5. **Fire Resistance:** 1145°C to 1520°C Fly ash bricks are more fire-resistant due to their high melting point & non-toxic nature. They won't release harmful fumes when exposed to fire.

6. **Durability & Sound Insulation:** Moderate to good Fly ash bricks are durable & resistant to weathering & chemical attacks. They offer good sound insulation, reducing noise transmission.
7. **Uniformity:** Fly ash bricks are typically uniform in shape & size, which can lead to savings in mortar & plaster during construction. Uniformity also contributes to better quality control compared to traditional bricks.
8. **Environmental Benefits:** Fly ash bricks are considered environmentally friendly because they utilize fly ash, a **byproduct of coal combustion, reducing landfill waste**. Their production also requires **less energy compared to clay bricks**. They contribute to a **cleaner environment** & are often used in **green building projects**.

3. **SIZE:**

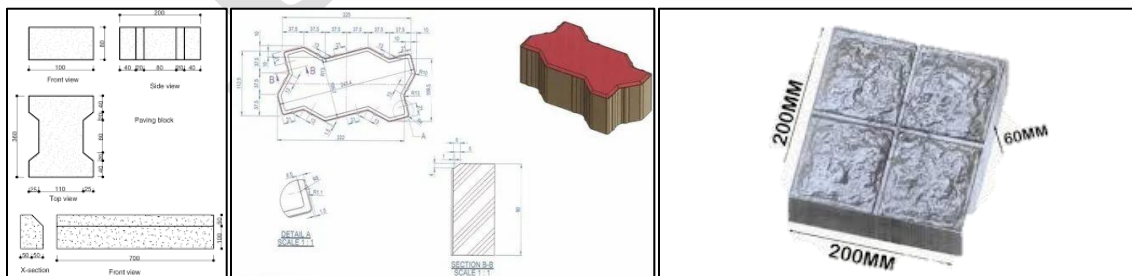
In Power Bricks Corporation offer sized as below which is as per ISO Standards & also is flexible enough to manufacture & size required by our customer.

A) **FLY ASH BRICKS:** [Size in MM]

- 230 x 110 x 72 Non-Modular Size.
- 190 x 90 x 90 Standards Modular Size.
- 200 x 100 x 100 Standards Modular Size.
- 300 x 150 x 100 Modular Size.
- Tailor made size asked by the customer

B) **PAVERS:** [Size in MM]

- 200 x 160 ➔ I Shape, size with Standard thickness of 60mm & 80mm
- 225 x 112.5 ➔ Zig Zag, size with Standard thickness of 60mm & 80 mm
- 200 x 200 ➔ Cobble, size with Standard thickness of 80 mm
- Tailor made grass pavers



4. COMPATIBILITY OF FEATURES:

FEATURES	FLY ASH BRICKS	RED CLAY BRICKS
Dimension (mm)	230 X 110 X 70	224 X106 X 63
Surface	Fine / Uniform	Rough/Uneven
Breakage	2% -3%	10%
Color	Grey	RED
Compressive Strength	>75-150 kg per cm2	50 –70 kg per cm2
Water absorption	< 20%	> 20%
Efflorescence	Nil	Common
Mortar Thickness (MM)	6	10
Plaster thickness	10	20

5. ESTIMATED COST OF CONSTRUCTION COMPARISION

DETAILS	UNIT	FLY ASH BRICK	TRADITIONAL BRICK
Claimed Size	Mm	230x110x72	225x113x75
Actual Size	Mm	230x110x72	220x106x63
Strength	Kg/Cm2	75-150	60-125
Volume/1000 Nos	M3	1.82	1.47
Weight	Kg	2.4	2.8
Density	Kg/ M3	1,300	1,800
Mortar Thickness	Mm	6	10
Plaster Thickness	Mm	10	20
No. of Bricks /M ³	Nos.	549	680
Breakage During Handling	%	2-3	6-10

6. SUMMARY

Fly ash bricks are larger and more consistently shaped than traditional clay bricks, offering notable technical and economic advantages:

- **High compressive strength** (typically 75–100 kg/cm² or ~7–10 MPa) compared to clay bricks (~30–35 kg/cm²), ensuring greater structural reliability
- **Up to 28% lighter weight**, which reduces dead load and allows savings on reinforcement steel
- **Uniform size and shape**, enabling thinner mortar joints—often saving 20–40% in mortar compared to clay bricks
- **Lower water absorption** (typically 6–20%) and reduced thermal conductivity, which contribute to drier structures and better insulation

Together, these features mean fewer bricks per wall area and savings on both materials and structural costs, while maintaining or improving strength and durability.