

Frequently Asked Questions (FAQs)

[Good Bricks Related]

1. What are Good Bricks?

Good Bricks are eco-friendly, non-fired, soil stabilized bricks made from the following key components:

Good Bricks = Soil (90%) + Cement (9.8%) + Soil Stabilizer (0.2%)

2. What is the weight of each component in a Good Brick?

Assuming an average brick weight of 2.7 kg, the weight of each component is as follows:

Good Brick (2.7 kg) = Soil (2,425 g) + Cement (270 g) + Soil Stabilizer (5 g)

3. What is the size and weight of Good Bricks?

The dimensions of the Good Bricks are adjusted to meet the local market demand. For a 9x3x2.5 inch dimension brick, the weight is about 2.7kg.

4. What is the strength of Good Bricks?

The CST (Compressive Strength Test) is performed to measure the amount of load the brick can bear without breaking. Good Bricks will exceed 8MPa. (MPa(megapascal) is a unit of measurement of pressure used for measuring the compressive strength of bricks.) which is 2~3 times higher compared to an average fired brick in the market.

5. Does Good Bricks meet the government requirements and guidelines for strength and durability?

Yes, Good Bricks meets the requirements for clay bricks. Good Bricks has been tested by multiple reputable labs in India, Nepal and Pakistan regarding Compressive Strength, water absorption, weathering, thermal conductivity, and shrinkage.

6. Have Good Bricks been used in construction?

Yes, Good Bricks have been used in the construction of over 300 structures, including government offices, commercial buildings, schools, temples, hospitals, and private residences. They have been utilized for both load-bearing walls and exterior facades.

7. Can Good Bricks be used as a load-bearing brick?

Yes, it can. It can be used as a load-bearing building component.

8. Do Good Bricks dissolve in water?

As the soil has bonded with cement under high pressure and cured, Good Bricks will not dissolve or erode in water. We have immersed some Good Bricks in water for over 3 years, and they do not show signs of dissolving or eroding.

9. What is the colour of Good Bricks?

Good Bricks colour will follow the colour of the soil used for manufacturing.

10. What is the life expectancy of Good Bricks?

We can say that the life expectancy of Good Bricks is longer than other fired bricks available in the market, as it has higher strength, better quality and of uniform size.

11. What is the major difference between Good Bricks & clay(fired) bricks?

The biggest difference is that Good Bricks are not fired and therefore low-carbon, eco-friendly. Unlike fired bricks, which are hand moulded, Good Bricks are machine made which enables each brick to be uniform in size and shape. On average, Good Bricks' CST is 2~3 times higher compared to fired bricks in the local market.

[Good Bricks Factory]

12. What are the requirements for setting up a Good Bricks Factory?

- Land : 5,000 sqm
- Good Bricks Machine
- Shelters for Machine, Curing and Soil storage.
- Connection to 3-phase electricity
- Water supply
- An abundant supply of suitable soil

13. What is the curing shelter for?

Curing shelters needed to ensure that bricks that are in the curing process are protected from direct sunlight, extreme temperature changes and rain.

14. What is the soil shelter for?

Dry soil is needed for manufacturing Good Bricks. There should be sufficient soil stored under the soil shelter so that brick manufacturing can go on throughout the year, even during the rainy season.

15. What is the total investment required to adopt this technology?

Initial investment of USD 15,000~25,000, depending on the size and capacity of the machine and the land and shelter status. Please consult with our BD team for details.

16. What is the total time needed to set up Good Bricks Factory?

It varies due to external factors such as weather conditions, government approval procedures and land conditions. On average, it will take 2.5 to 3 months in total to complete the full Good Bricks plant set up once the purchase order and payment have been made.

17. How many workers are needed to operate a Good Bricks Factory?

Minimum labour numbers required for running the Good Bricks plant for one shift(8 hours) ranges from 8 to 20, depending on the size and capacity of the brick manufacturing machine.

18. Can we run the Good Bricks plant for more than one shift (8 Hours)?

Yes. the Good Bricks machine can be run up to 3 shifts. However, it is recommended to give at least 1 hour break, where the machine operator should check and inspect the machine to ensure continuous operations. Different teams of work force may be needed in order to meet the local Labor regulations regarding working hours and conditions.

19. What is the production cost per brick?

The cost of production per brick depends upon various factors, such as price of raw materials and production volume. On average, the cost will be about 9~10 NPR.

20. How long does it take to manufacture Good Bricks?

Good Bricks are made by mixing soil, cement, and a soil stabilizer, then compressing the mixture in a hydraulic press to form bricks. After moulding, the bricks are stacked and cured for 7 days before they are ready for use.

21. When can Good Bricks be sold and shipped after production?

After the curing process is completed, Good Bricks are typically allowed to dry for an additional 3 to 7 days before they are ready for sale and shipment.

22. Can you make Good Bricks in different shapes? Can I add the brick logo to it?

Yes, Good Bricks can be made in various shapes and sizes. If Clients need to have more than one size or shape of bricks, then additional moulds need to be ordered and bought. Logos can be customized for the brick. Logo designs come with the mould. If you wish to change the brick logo, then you must purchase a new mould with the updated logo.

23. What type of soil is suitable to produce Good Bricks?

As per the soil tests performed up to now, almost 95% soil of Nepal can be used for making Good Bricks. However, it is important to note that as brick colour will follow soil colour, most

of our Good Bricks manufacturers will use red soil for making Good Bricks. Prior to fixing the location of the factory, our team will guide you through the soil feasibility test.

24. Where and how to test our soil for Good Bricks?

It is tested in our Good Bricks Test Center in our Jorpati office in Nepal. You are requested to send your soil there as per our contact details. Our soil engineer will carry out the tests and provide you with the report.

25. How can we test the load-bearing strength of Good Bricks?

We have a Compressive Strength Test (CST) machine at our Good Bricks Test Centre, Jorpati to check the bearing load strength of Good Bricks.

26. How long can the Good Bricks machine be used for?

The Good Bricks machine can be used for over 10 years, on condition that the machine has been used and maintained properly. Spare parts of the machine must be changed after certain periods to ensure proper functioning of the machine. After service and technical support will be provided by InnoCSR.

27. Is the Soil Stabilizer harmful?

Not at all. The soil stabilizer is well tested in the lab and doesn't contain any harmful particles. It's a non-toxic chemical and has been tested harmless to humans and to the surrounding land.

28. Many bricks are made from soil or cement. What happens if you don't use soil stabilizer?

As good bricks are non-fired soil bricks, soil stabilizer is the major component to bind soil and cement; therefore, without the soil stabilizer we cannot produce Good Bricks.

29. What is the life expectancy of the soil stabilizer? Doesn't this chemical expire?

It can be stored for a long period however, it must be stored in a cool, dry place. It has no expiry date.