Gladstone Rose and Donald Excel discussed an unique idea — combining bamboo charcoal briquettes with natural cinnamon aroma which we believe could appeal to niche markets like BBQ lovers, eco-conscious households, and even indoor air purifiers.

Here's the best method proposed by QSL to make cinnamon-flavored bamboo charcoal briquettes from start to finish:

Materials Needed

Raw Materials

- Bamboo (dry culms or waste)
- Cinnamon sticks or powder
- **Binder** (e.g., cassava starch, molasses, or cornstarch)
- Water

Equipment

- Drum or kiln for carbonization
- Grinder or hammer mill
- Mixing basin or drum
- Briquette mold or hydraulic press
- Drying rack or solar dryer
- Protective gloves and mask

Step-by-Step Process

1. Carbonization of Bamboo

Turn raw bamboo into charcoal.

- Cut bamboo into small pieces.
- Place in a kiln or 200-liter drum with limited oxygen.
- Heat slowly to 400–600°C for 3–4 hours.
- Allow to cool completely before opening.

💡 **Tip**: Use a top-lit updraft method or a TLUD kiln for more efficient carbonization.

2. Grinding

- Crush the cooled charcoal into a fine powder using a hammer mill or grinder.
- Sift to remove any large chunks.

3. Prepare Cinnamon Additive

Choose your cinnamon source:

- Cinnamon powder (best for uniform mixing)
- Cinnamon extract/oil (for a strong aroma)
- Crushed cinnamon sticks (less effective but natural)

Mix into the charcoal at this ratio:

2-5% of total dry weight

4. Add Binder

Prepare a natural binder to hold the briquette together:

- Cassava starch or cornstarch solution: boil in water until thick.
- Ratio: 5-10% binder to charcoal by weight

Mix charcoal + cinnamon + binder into a thick, moldable paste.

5. Molding or Pressing

- Use a manual mold (cylindrical or pillow-shaped) or hydraulic press.
- Press until firm.

Ensure even pressure to prevent crumbling later.

6. Drying

• Dry in the **sun** (2–5 days) or use a **solar dryer** or **oven** (below 100°C).

• Briquettes must be **fully dry** to burn well.

7. Packaging and Storage

- Store in a dry, airtight container or eco-friendly packaging.
- Label with your brand and cinnamon scent info.

P Bonus Ideas:

- Market as "Eco-Friendly Flavored Briquettes"
- Add clove or orange peel powder for festive blends
- Consider activated bamboo charcoal for air purifiers (infused with cinnamon)

Potential Uses:

- BBQ Grilling with subtle cinnamon aroma
- Mosquito repellent charcoal (cinnamon has insect-repelling properties)
- Home fragrance (slow burn in clay pots)

This is a QSL document for sharing and further development within the BWP Club - 13 June 2025 – signed by Gladstone Rose