**One Point Lesson: Bulk Density Test**

1. The test is to be performed at the beginning of every batch after starting a new batch or list number in the dryer.
2. Wear Personal Protective Equipment (PPE) which includes sanitized gloves, safety goggles/glasses, hairnet, plant uniform/attire, GMP shoes, face mask, and beard cover (if needed).
3. Switch on weighing scale.
4. Ensure the weighing scale reading is of the correct unit measurement. Unit measurement should be in grams.
5. Place an empty measuring cylinder onto the weighing scale. Measuring cylinder can be found in the bulk density tester.
6. After placing the measuring cylinder onto the weighing scale, get a funnel, and place it on top of the measuring cylinder.
7. Press ‘0’ on the weighing scale to remove the current weight of the measuring cylinder and funnel used.
8. Pour 100grams of collected sample spray dry powder into the measuring cylinder. Ensure it is of correct reading and weight. Use a long teaspoon to remove any extra weight.
9. Once done weighing, remove the funnel from the measuring cylinder and place the measuring cylinder in the bulk density tester according to the correct dryer number being tested. The bulk density tester is located near the moisture analyzers.
10. Press the ‘start’ button. Ensure the tapper count is at 1000.
11. Once tapping is done, use the indicated measurement on the measuring cylinder and take note of the volume of the collected spray dry powder.
12. Using the bulk density formula, take 100g of the mass-weighted and divide the volume that you have noted down. Round off to 2 decimal places.
13. After rounding off, that will be your bulk density.
14. Switch off weighing scale.

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