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(57) Abstract :

Granite powder disposal by industry is a global environmental issue. Quarrying trash is estimated at 175 million tons annually. So granite powder waste may make bricks. Tanks hold water from cutting granite rocks. 12.2 million tons of granite rejects, 5.2 million tones of cutting/trimmings, and 0.4 million tons of granite sludge are produced by the Indian granite stone industry. Concrete and other processes employ granite sludge powder. We are considering employing granite sludge powder to innovate bricks. Granite sludge powder, cement, fly ash, sand, and clay make bricks. These materials make GSP bricks. Granite sludge powder bricks use water absorption and compression testing. 0.22x0.10x0.075m bricks. Bricks are 0.022m² and 0.00165m³. On-site granite trash is 250–400 tons per year. So granite trash must be removed soon and used in building. The mix proportion for granite sludge bricks manufacturing by using various materials there are fly ash, cement, granite sludge powder, sand, clay. To select the best suitable mixing ratio according to the availability of raw materials and market requirement. It is low cost and durability. It attains suitable strengths. It mixed with different types of percentages. Granite sludge is available for more and cost is not required. The mixing process carried out by using a manmade type or mechanical type's mixer for all mixers. Plastic brick shape mold were used in all the tests throughout the investigation. Before casting each specimen, the mold were carefully fixed did not move any side and little amount sand laid at the bottom of plastic mold after to put above the mold and laid the mixing fresh bricks. The size of the mold is 0.22x0.10x0.075m. The specimens were demolded after filled the mixer from casting.

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