

Gypsum-Vermiculite-Fly Ash Light Weight Plaster

Societal Impact

- i) The technology will help to utilize fly ash- a by-product of coal based thermal power plants. It will solve the problems of its disposal.
- ii) It will help in recycling and reusing industrial waste and by-products helps to conserve energy and environmental resources.
- iii) This will reduce the landfill space requirement.
- iv) This will help in saving the air, land and underground water from getting polluted.
- v) This will provide a better ambient air quality for the living beings and save them from pulmonary diseases.
- vi) This will provide a low cost green plaster to the society as an alternative to cement plaster.
- vii) It is a cement free plaster. It will reduce the energy requirement and saving of natural resources like coal, lime stone etc. in manufacturing of cement. Thus it will reduce the carbon foot print generated in the manufacturing of cement.
- viii) The plaster developed is a light weight plaster giving a textured finish to the wall. There is no need to do paint.
- ix) It is a sound resistant plaster with low thermal conductivity due to use of gypsum.