Portable Egg Laying Type Mud/Concrete Block/Brick Making Machine

Technology in Brief:

The compact modular egg-laying type stabilized mud and concrete block/brick making machine is designed to provide a versatile, efficient, and cost-effective solution for on-site production of masonry units in diverse construction environments. The machine employs a semi-automated system capable of producing uniform, high-strength stabilized mud bricks/blocks as well as concrete blocks directly on the ground using the egg-laying principle. It offers a production capacity of approx.800-1000 blocks/bricks per shift with minimal manpower requirement (1 operator), ensuring improved productivity with reduced labor dependency. The modular design allows easy dismantling into sub-assemblies for convenient transportation and repid assembly at site. The machine operates with low power requirement and can be adapted for manual or motorized operation, making it suitable for both rural and urban applications. Its robust construction, low maintenance needs, and ability to produce consistent quality units address the limitations of conventional manual methods, thereby promoting sustainable, scalable, and high-quality construction practices.

Salient Features/Advantages:

- Portable egg laying type machine
- Produce 02 blocks of size 300x200x200 mm^3(or can be customized as per requirement) per batch and 800-1000 blocks per 8 hours shift.
- One vibrator of 0.5hp power along with free fall plunger for uniform compaction.

Major Components / Raw Material	Standard structure steel sections, vibrator, LM shafts, LM bearings, Mold unit
Techno-Economics	The estimated capital investment is approx. 60,000-80,000, with additional charges applicable based on the number of molds required
TRL	TRL-7
Environmental Aspects	Environmental friendly / Can be installed in remote areas
Major Plant Equipment & Machinery	Standard mechanical workshop facilities
Technology Package	Production drawings, fabrication procedure, mix-design, specification of standard components