

A
Report on

**FABRICATION OF DIGESTER MECHANISM BY USING BUBBLE
GENERATOR**

*A project report submitted in partial fulfillment of the requirements for the
award of the Degree of*

BACHELOR OF TECHNOLOGY

In

MECHANICAL ENGINEERING

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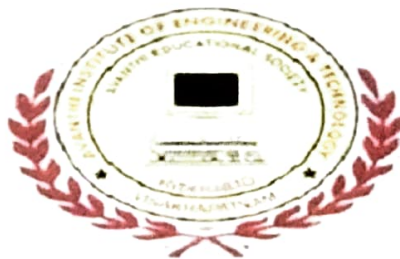
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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)
(Accredited by NAAC, UGC & NBA, AICTE)
MAKAVARAPALEM, NARSIPATNAM,
VISAKHAPATNAM DIST (2018-2021)

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CERTIFICATE

This is to certify that the project entitled “FABRICATION OF DIGESTER MECHANISM BY USING BUBBLE GENERATOR” in partial fulfillment for the degree of Bachelor of Technology in MECHANICAL ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by B.Venkatram(18815A0308), A.Pavan(18815A0302), V.Swamy(17811A0361), V. Kameswara rao(17811A0360) under the guidance and supervision during 2018-2021.


Project Guide
15/7/21


Head of the Department

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ABSTRACT

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Re-circulated gas is continuously fed to bubble generator and intermittently discharged into stack pipe as a large piston bubble (Piston bubble fills the entire cross section of pipe, driving out liquid as it rises and creating a siphon. (As one bubble leaves stack pipe at the top, another enters from generator for both continuous mixing and prevention of solids settling. (Large bubbles burst as they leave liquid surface, creating substantial turbulence that prevents scum buildup.

As there is no scum buildup due to the continuous bubbles by the bubble gun at uniform pressure, then the circulation done without any stationary movement in the digester.

By using the bubble gun or generator no moving equipment is installed inside the digester which reduces the maintenance cost and make the process quicker and simple to operate.