

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELGAUM**



A Project Report on

“NON CONVENTIONAL CUTTING OF GLASS PLATE USING HOT AIR JET”

(Sponsored by K.S.C.S.T)

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Bachelor of Engineering in***

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PROJECT ASSOCIATES:

**SUPRIYA.M.S
NANDINI KENI
MALLIKARJUN.HIDAKAL**

**4SM06IP009
4SM06IP011
4SM07IP401**

Under the Guidance of:

B.NAJARAJA M.Tech

Lecturer, Dept. of I & P Engineering

DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING



S. J. M. INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belgaum & Recognized by AICTE, New Delhi)

**P. B. No. 73, NH-4 Bye-Pass Road, CHITRADURGA – 577 502
Karnataka State, INDIA**

ABSTRACT

Conventionally, plate glass (soda lime glass) is cut by a diamond point tool or a diamond wheel. The cut surface by this method is rough and wavy. Micro crack, which affects the life and quality of glass, may develop during cutting. It is difficult to cut non straight profile by the conventional method and glass wastage is more. Researchers have used laser cutting on glasses of thickness lesser than 1mm. In this project an attempt has been made to develop centre crack by using hot air jet. Hot air jet machining can be applied for thermal cutting and abrasive hot air machining. Experiment studies are conducted to determine the variation of the cutting speed for various values of the stand-off distance, and variation of the time for various values of the cutting length and the effect of various parameters like temperature, cutting length, SOD has been studied.