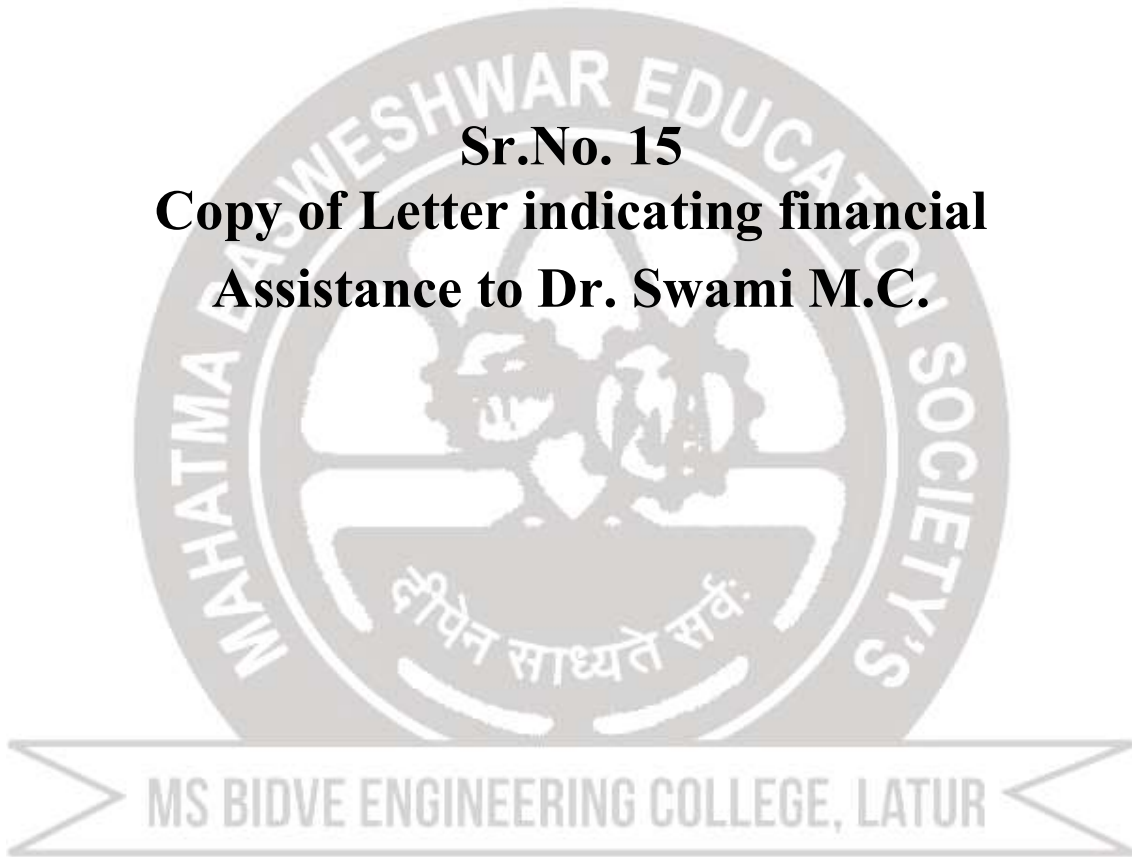


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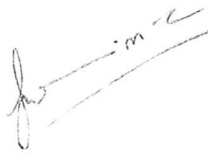
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Full Name of the claimant

Swami Mahesh C.

Particulars	Rs.	Ps.	Signature
Published paper in Material Today Proceeding Journal "Flexural & Inter -laminar shear stress properties of glass fiber reinforced Iso-polyester, Epoxy & Vinyl- ester composite" Publication fee paid Rs. 7500/- As per college policy 50% amount	3750/-		
In Words Rs. <u>Three thousand seven hundred & sixty only.</u>	Total Rs. <u>3750/-</u>		

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Sub:- Regarding Paper Publication bill.

Resp. Sir,

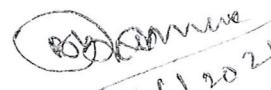
I undersigned Swarni m.c. publish
paper on Composite mechanical in Scopus Ind
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So please return me 50% amount
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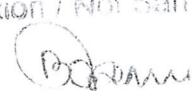
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do as per procedure
& issue

Yours faithfully

(Swarni m.c.)


30/6/2024

As per Receipt (online) Rs. 7500/-
50% Less, as per procedure - 3750/-
Pay Rs. 3750/- to M.C. Swarni
for Paper publication

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Date (Value Date)	Narration	Ref/Cheque No.	Debit	Credit
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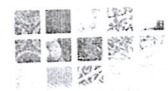
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Flexural and Inter-laminar shear stress properties of glass fiber reinforced Iso-polyester, Epoxy & vinyl ester composites

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ABSTRACT

In this study the glass fiber is reinforced in Iso-polyester, Epoxy & vinyl ester resin with different percentage fiber and resin combination. The composites were prepared with the hand lay up technique followed by compression. After preparing specimens as per ASTM standard these specimens are tested on the computerized universal testing machine for flexural strength and inter-laminar shear stress (ILSS). The experimental data is used to compare and find the best percentage combination of resin and fiber for different applications of composite.

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1. Introduction

The use of Composite material increases in manufacturing the automobile parts such as gearbox, gear, cams, bearings, etc. The day by day the importance of new advanced composite material get increases from an invention and application point of view. It is a fact that scientific progress depends on innovations in the field of materials. One does not have to be an expert to recognize that the most advanced engine or space shuttle design is of no use if the appropriate materials to stand the acting forces and service conditions are not available. Whichever the field may be, the last constraint depends on the development of materials. Composite materials in this concern represent nothing but a huge step in the continuous endeavor of the optimization of materials.

Fiber-reinforced plastics (FRP) are increasingly used in civil and marine structures because of their corrosion resistance, low cost, lightweight, high bearing capacity, and long life. It is very important if we know the mechanical properties of any composite before using it for different applications [1]. Here we used ILSS and flexural strength criteria. Sandwich composites are complex materials that are made from several layers. This structure is made of three-layer in which two outside layers and one inside layer of soft & solid core mat. The strong and thin outside layers are bonded to

the central core mate to allow transferring forces between constituents [2].

In literature kanchuraya, shivakumar S discussed about carbon/vinyl ester and carbon /iso polyester composites exposed to 0.06% sea water for long term period and then studied mechanical properties. The moisture observation of vinyl ester/carbon composites was superior compared to isopolyester/carbon composites. Kootsookos, Mouritz, studied the glass/polyester and glass/vinyl ester composites against carbon/polyester and carbon/vinyl ester composites in sea water for mechanical properties, degradation mechanism and durability [3]. Nuruzzaman, Basu, in this paper they discussed about the effect of different weight percentage glass fiber on mechanical properties when it is reinforced in polyester. In experimentation the result shows that the different weight percentage of glass fiber influences the mechanical properties of composite [4]. The researchers also studied the effect of moisture and UV radiation on inter laminar shear strength, flexural and tensile strength of carbon fiber vinyl ester composites. Results show that there is decrease in mechanical properties of carbon fiber vinyl ester composite due to marine environment [5]. The researchers also studied mechanical property of glass fiber/epoxy composites with TiO₂ and ZnS filler. The mechanical strength of higher percentage TiO₂ and ZnS filled composite is more compare to lower percentage filled composite. The fiber orientation is also important while preparing composites [6-7]. In literature few researchers discussed about different types of natural fibers, their properties

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