Sr.No. 17
Copy of Letter indicating financial Assistance to Dr. Swami M.C.

1262

Cash-Voucher

Shri Mahatma Basweshwar Education Society's

M. S. BIDVE ENGINEERING COLLEGE, LATUR

Expenditure Head Paper Publication in Scopus index Journal Date: 03.03.22

Full Name of the claimant Shreemi M.C.

Particulars		Rs.	Ps.	Signature
One Paper Published in Elsevier Publi-cation. of title "Seed water effect on the mechanical Properties of glass reinforced composite with SiO_2 & TiO_2 filler" Total amount = Rs 7500 As per college Policy 50% of amount will be refunded of total amount 7500		3,750/-		
In Words Rs. Three thousand Seven hundred fifty only	Total Rs.	3,750		

Accountant | Registrar/O.S. | Principal | Campus Director

Date: 22-02-2022

To,

The Principal

M.S. Bidve Engineering College, Latur

Subject:- Regarding the refund of the published research paper

Resp. sir,

I, Swami M.C., have a paper published in a Scopus-indexed journal. "Sea water effect on the mechanical properties of glass reinforced composite with Sio2 and Tio2 filler," the title of the paper reads. I paid Rs 7500/- as registration/publication fees during the registration process. According to college regulation, I will receive a 50% refund.

As a result, please take the necessary steps to obtain a refund.

Thanking you,

Yours faithfully

TO
Shri Deshmukh/ A/C section
As per resolution of LMC,
Act accordingly
24/2/2022

Ink Character Code	413002972
Registered	No
e as on14/09/2021	-5,79,945.54

ate (Value Date)	Narration	Ref/Cheque No.	Debit	Credit	Balance
15-Sep-21 (15-Sep-2021)	DEBIT CMP SBIMF SIP -6751841-346 G		1,000.00		-5,80,945.54
15-Sep-21 (15-Sep-2021)	TO TRANSFER INB RAZORPAY SFT PVT LTD NODA	110000469789161CKO5 TRANSFER TO	7,500.00		-5,88,445.54
18-Sep-21 (18-Sep-2021)	BY TRANSFER Emp No 00440110 HRMS Medical Bill Reimbursement	TRANSFER FROM 9815 4063035		2,829.00	-5,85,616.54
18-Sep-21 (18-Sep-2021)	BY TRANSFER Emp No 00440110 HRMS Medical Bill Reimbursement	TRANSFER FROM 9815 4063035		1,007.00	-5,84,609.54

**This is a computer generated statement and does not require a signature

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proceedings. (SCOPUS INDEXED), subjected to the peer review and recommendation

CALL FOR PAPERS

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December 26-27, 2021

https://sites.google.com/view/icdm-2021

Department of Design, Delhi Technological University, India

Proceeding Approved in Materials Today Proceedings: Elsevier

TOPICS OF INTEREST

Materials behavior
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1st International Conference on Design and Materials (ICDM) 2021 is being organized during **December 26-27, 2021** by **Department of Design (DoD)** at **Delhi Technological University (DTU), Delhi, India**. The ICDM-2021, provides a forum to the best talents from the academia & research institutions, industry experts, designers, management professionals, engineers and executives to collaborate and address the current challenges, in order to explore new windows for discovery, innovation and advancements, promoting the contribution of Design and Materials for a sustainable future. The conference is also aimed to promote synergetic partnership between academia and industry and also to showcase the growth of cutting edge technology developed in the field of Design and Materials in recent past. All full paper submissions will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability.

Members of Centre for Industrial Design and Ergonomics (CIDE), Delhi Technological University, Delhi also support and sponsor the ICDM-2021.

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The mode of the presentation will be online as well as offline.

Paper submission Link: https://www.editorialmanager.com/matpr/Default.aspx

After logging in to the submission page, select "SI:ICDM-2021" from the drop down list

IMPORTANT DATES

Last Date of Submission	**31.08.2021**
Reviews/ Comments to Authors	**30.09.2021**
Revised Manuscript to be submitted by	**15.10.2021**

REGISTRATION DETAILS

Category	Indian (INR) Till 31.08.2021	Foreign (USD) Till 31.08.2021	Indian (INR) After 31.08.2021	Foreign (USD) After 31.08.2021
Student	7500	350	8500	400
Academicians	8000	350	9000	400
Industry	8500	350	9500	400

For General Queries:
write us at: 2021icdm@gmail.com

Thanks and Regards,

Prof. Ranganath M Singari, HoD (Department of Design),
Delhi Technological University, Shahbad Daulatpur, Bawana Road,
Delhi 110 042, India

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Sea water effect on the mechanical properties of glass reinforced composite with Sio_2 and Tio_2 fillers

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ABSTRACT

In this project we determine the moisture absorption behavior and mechanical properties of GFRP composites filled with Sio_2 & Tio_2. The composite prepared with glass reinforced vinyl ester with silicon Dioxide and Titanium oxide as a filler Materials by hand lay-up technic. The specimens are submerged for 56 days in artificial sea water then tested for mechanical properties. The studies show that Sio_2 and Tio_2 can be used for vinyl ester resin as a toughening modifier. After long term ageing of dry specimen the ultimate tensile strength is decreased by 28.46% & flexural strength decreased by 56.32%.

Selection and peer-review under responsibility of the scientific committee of the First International Conference on Design and Materials (ICDM)-2021

1. Introduction

The fiber reinforced has been widely used in automobile, marine, structural industries due to their excellent physical and mechanical properties. Glass fiber reinforced polymer (GFRP) is widely used because of light weight, easy availability and corrosion resistant. Generally, moisture is absorbed in GFRP in sea water environment.

k. kalyan Krishna etal. [1]studied GFRP composite with combined Titanium and carbon filler by hand layup technique. They concluded that maximum value of of young's modulus is 5% of filler addition. The water absorption is more with increasing filler content is compared with the unfilled composite. Ramesh Kumar Nayak et al. [2] experimented with Nano Tio2 particles. They studied effect on thermal & other properties of GFRP with Nano Tio_2 filled composites. The experimental result shows that the coefficient of water diffusion improved by nine percent, inter-laminar strength by 8% & flexural strength by 19%. Susilendra Mutalikdesai et al., [3] this paper presents influence of various filler materials such as silica fume, fly ash, quartz powder and GGBS powder on GFRP composite. They concluded that flexural strength obtained maximum for fly ash followed by quartz powder, silica fumes and GGBS. Fly ash and silica fumes filled epoxy glass composites exhibited better resistance to water absorption as compared to other laminates. Sideridis, E. et al,[4] This paper presents effect of water absorption on the flexural properties of iron filled composite laminates. Ya V. Lipatov el al [5] studied the influence of zirconia on mechanical and alkali resistive properties of basalt fibers. There is increases the alkali resistive by 37% due to less than 3.1 wt% of Zro_2. Also the alkali resistive and tensile strength of fibers reduces due to the addition of zro_2 more than 3.1 wt%. Naveed Anjum et. al, [6] studied effect of Sio_2 micro filler on different properties of GFRP. The experimental result shows that due to addition of Sio_2 filler material there is increase in mechanical properties of composite structure.

The TiO2 filler is popular for its photo-catalytic nature and low harmful, while. The SiO2 exhibits polyester aqua phobic and hydro-philic properties and thermal stability. The combination of these fillers give wide scope for use of different application.

The effect of fillers TiO2 & SiO2 on water absorption has been not studied for glass fiber reinforced polymers. The ageing is nothing but effect of sea water on composite specimen when specimen comes in contact with water [7]. Hence, an attempt is made in this literature to study artificial sea water effect on Mechanical properties of GFRP with the use of Sio_2 and Tio_2 fillers. Furthermore, percentage of moisture absorbed is also studied.

2. Material

1) Glass fiber of 300 GSM Bio woven rowing
2) TiO_2 & SiO_2 Micro fillers
3) Vinyl ester Matrix with hardener and catalyst

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E-mail address: [redacted]@yahoo.co.in (M.C. Swami).

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