

Manipal University Jaipur Collaborates with Governments to Ensure Water Security

Water security represents a critical global issue that crosses national boundaries and necessitates collaborative efforts across various governance levels. It is an essential resource for all living beings, ecosystems, and human communities. Ensuring water security encompasses not only the availability of clean and safe drinking water but also the sustainable management of water resources. The consequences of water scarcity and pollution can be severe, resulting in health crises, disruptions in agriculture, and potential conflicts.

Manipal University Jaipur collaborates with municipal and local authorities to tackle water security challenges. This partnership includes research initiatives aimed at developing innovative water treatment technologies and implementing advanced water management systems. For example, the university may work alongside a city government to create and install sensors that provide real-time monitoring of water quality. On a broader scale, Manipal University Jaipur promotes collaboration among multiple local governments, facilitating discussions and research endeavors to address regional water issues, such as shared river basins or transboundary water resources. This collaborative strategy can foster agreements that ensure fair water distribution and mitigate conflicts between regions. National governments frequently seek the expertise of universities in the realms of water management and policy formulation. Manipal University Jaipur engages in partnerships with national agencies to perform thorough evaluations of water resources, formulate legislation, and devise strategies for disaster preparedness and response. These collaborations can significantly enhance the development of effective water security plans.

Addressing water security presents a multifaceted challenge that requires cooperation across various levels of governance. With its research expertise and innovative approaches, Manipal University Jaipur is well-positioned to collaborate with local, regional, national, and international governments to promote the sustainable management of water resources. By establishing these partnerships, Manipal University Jaipur is advancing towards a future where all individuals and communities have access to clean and safe water, thereby protecting the health of our planet and its inhabitants.



**MANIPAL UNIVERSITY
JAIPUR**

FACULTY OF DESIGN

5days Executive
Development Program
on

‘Bamboo Renaissance: Modern Design Meets Sustainability’

Venue: Online platform

Time: 9:30 AM-12.00 PM (First day)

2:30 PM-4.00 PM (2nd to 5th day)

18th September- 22nd September 2023



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1. Introduction of the Executive development Program:

On World Bamboo Day, the Faculty of Design at Manipal University Jaipur organized a 5-day Executive Development Program titled "Bamboo Renaissance: Modern Design Meets Sustainability" in collaboration with their industrial partner, KONBAC, and the Indian Bamboo Forum, in association with the IGBC Student Chapter, MUJ, and MUJ-TEC. The program was conducted in virtual mode from September 18th to September 22nd, 2023.

2. Objectives of the Seminar:

- Understanding the various application of Bamboo in Exterior and interior spaces.
- To create awareness about bamboo in different regions.
- To understand its production and preservation technique techniques.

3. Beneficiaries of the Event:

- UG Students (Architecture, Design and Construction related Fields)
- PG Students (Architecture, Design and Construction related Fields)
- Research Scholars
- Academicians, Practitioners, and Industry Professionals in the fields of Architecture, Design, Civil, and Structural Engineering.

4. Details of the Speakers:

- a) Dr. Jagdish Vengala, Head of EDC & Associate Professor at PVPSIT Vijayawada. Dr. Jagdish Vengala presented various components of bamboo and explained its diverse strength and elastic properties. He also discussed the various IS codes applicable in India for bamboo construction.
- b) Prof. Sankalp, an associate professor from CEPT UNIVERSITY. Prof. Sankalp presented various construction techniques related to Bamboo construction, demonstrating proposals from different parts of the world. He elucidated innovative joinery details pertinent to bamboo construction.
- c) Prof. Charruchandra K. faculty member at CTARA, IIT Mumbai, discussed various species of bamboo and highlighted their unique thermal, bending, tensile, and compressive strength properties. He also showcased the application of innovative joinery details using Bomcrete (HIB) technology in arch construction. In addition, Prof. Charruchandra K. presented models of bamboo structures subjected to different loads, demonstrating their strength and durability.
- d) **Mr. Sanjeev Shashikant Karpe** is a qualified Electrical Engineer has been associated with bamboo industry for last eighteen years and has pioneered the work in setting up of self-sustainable bamboo-based enterprise in rural India. He is a Founder and Director with Konkan Bamboo & Cane Development Centre (KONBAC), an organization working for sustainable development through use of bamboo as a resource & implementing various bamboo projects successfully for last 17 years. Mr. Sanjeev Karpe explained bamboo construction in India and worldwide. He stated that bamboo has strong potential to grow in degraded land, requires less water compared to sugarcane, and consumes less embodied energy compared to conventional materials. In the global context, countries such as Colombia and Vietnam have

embarked on large-scale bamboo projects, whereas in India, despite being the world's second-largest bamboo producer, its full potential remains largely untapped. In addition, Ar. Sanjeev Karpe presented models of bamboo structures subjected to different loads, demonstrating their strength and durability. Various experiments related to straightening of bamboo and bending it to achieve the required form were also demonstrated.

- e) Mr. Amitava Sil, a Scientist at IWST (Indian Wood Science and Technology), Kolkata, renowned for his extensive knowledge and experience in the preservation treatment of bamboo species. Mr. Amitava Sil provided insights into preservative treatments and fire retardancy in structural bamboo. He elucidated various treatment methods and processes, highlighting their associated benefits. Furthermore, he offered a demonstration of bamboo's structural frame by showcasing its inherent structural properties.

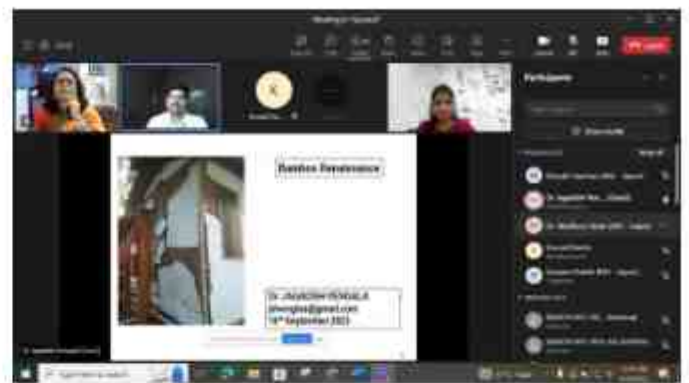
5. Brief Description of the event:

In the context of a Global Environmental crisis, coupled with economic and health challenges, the time has come for radical cultural awareness, politicians, architects, engineers, developers, and construction companies have an enormous responsibility as the construction industry and processes have an enormous negative impact on the environment. Bamboo is a key natural resource and, together with conscious design, draws a new direction for Contemporary Architecture. The Executive Development Program "Bamboo Renaissance: Modern Design Meets Sustainability" is a comprehensive initiative designed to explore the dynamic intersection of modern design principles and sustainable practices within the realm of bamboo. This program is carefully curated to provide Industry Professionals, Academicians, and Researchers with the knowledge and tools needed to harness bamboo's immense potential as an eco-friendly resource in contemporary design and construction. The EDP 2023 will be a great opportunity to facilitate networking with industry experts and peers, enabling participants to exchange ideas, collaborate on projects, and stay updated on emerging trends and innovations in sustainable design.

6. Images



1. Inaugural Address by Prof. (Dr.) Madhura Yadav, Dean, FoD



2. First day expert lecture by Prof. (Dr.) Jagdish Vegaia



3. Second day expert lecture by Prof. (Dr.) Sankalp



4. Third day expert lecture by Prof. (Dr.) Charuchandra



5. Fourth day expert lecture by Mr. Sanjeev Karpe



6. Fifth day expert lecture by Mr. Amitava Sil



7. Valedictory session by Mr. Anand Mishra and Mr. Dharendra Madan

7. Brochure of the event:



FACULTY OF DESIGN

In association with



EXECUTIVE DEVELOPMENT PROGRAM -2023 (Virtual Mode)

September 18th: 9:30am to 11 am & September 19th to 22nd, 2023 : 2:30pm to 4:00 pm.

BAMBOO RENAISSANCE: Modern Design meets Sustainability



Scan here for registration



Scan here for student

ABOUT MANIPAL UNIVERSITY JAIPUR
Manipal University Jaipur (MUJ) has achieved academic excellence in the region and beyond students of all disciplines in both and continue through learning provided experience. The well-disciplinary university offers comprehensive courses at all levels: BA, BSC, PG and doctoral across all the streams like Engineering, Architecture, Planning, Fashion Design, Interior Design, MBA, BBA, Hospitality, Management, Journalism, Social Sciences, Law, Commerce, Computer Applications, Management, etc. The university has been granted the AICTE Accredited Centre, funded by Ministry Government of India, etc.

ABOUT FACULTY OF DESIGN
The Faculty of Design aims to nurture the best of its own strengths, with its mission to become the most preferred global destination in design education and research for students, researchers, faculty, collaborations, production, innovation, and development. Over time, the Faculty has grown into one of the best. The school of Architecture and Design, the School of Design & Art and many departments. The Faculty of Design is headed by excellent academicians and professional experts within the Faculty. Its present Faculty of Design is offering B.A., B.Arch, B.Des, and Doctoral programs in Architecture, Interior Design, Fine Art, Fashion Design and CDD.

IGBC STUDENT CHAPTER
IGBC Student Chapter Manipal University Jaipur was constituted by the Faculty of Design, IGBC student chapter aims to explore the role of the green buildings concept in the built and urban environment. The chapter organizes various awareness activities and workshops by experts.

KUNBAC BAMBOO PRODUCTS PRIVATE LIMITED
KUNBAC BAMBOO PRODUCTS PRIVATE LIMITED is classified as a non-government company and it is registered and located in KUNBAC, MICHOL, providing housing at a national and global level, in Bamboo cultivation, harvesting, and primary and secondary processing. Manufacture of interior & wall cladding products. Manufacture of home and office furniture. Construction of bridges, ramps, and buildings.

ABOUT EXECUTIVE DEVELOPMENT PROGRAMME
In the context of a Global Environmental crisis coupled with economic and health challenges, the time has come for radical cultural reorientation, performance, efficiency, expansion, development, and innovative expansion. Here an executive development program in the construction industry and provides here an executive training program in the construction industry and provides here an executive training program in the construction industry and provides here an executive training program in the construction industry.

The Executive Development Program "Bamboo Renaissance: Modern Design Meets Sustainability" is a comprehensive initiative designed to explore the dynamic intersection of modern design principles and sustainable practices within the realm of bamboo. This program is carefully crafted to provide industry professionals, academicians, and researchers with the knowledge and tools needed to harness bamboo's immense potential as an eco-friendly resource in contemporary design and construction. The EDP 2023 will be a great opportunity to facilitate networking with industry experts and peers, enabling participants to exchange ideas, insights on progress, and they explored on emerging trends and innovations in sustainable design.

WHO CAN PARTICIPATE
Students, Research Scholars, Academicians, and Practitioners in the field of Architecture, Design, Civil, and Structural Engineering.

CHIEF GUEST
Dr. Anil Kumar Sharma
Dr. Prashant Sharma

RESOURCE PERSONS
Dr. Anil Kumar Sharma
Dr. Prashant Sharma
Dr. Anil Kumar Sharma
Dr. Prashant Sharma
Dr. Anil Kumar Sharma
Dr. Prashant Sharma

OUR CHAIRS
Dr. Anil Kumar Sharma
Dr. Prashant Sharma

Dr. Anil Kumar Sharma
Dr. Prashant Sharma

Dr. Anil Kumar Sharma
Dr. Prashant Sharma

Dr. Anil Kumar Sharma
Dr. Prashant Sharma

Dr. Anil Kumar Sharma
Dr. Prashant Sharma

ORGANISING SECRETARIES
Dr. Anil Kumar Sharma
Dr. Prashant Sharma



FACULTY OF DESIGN Celebrating World Bamboo Day

EXECUTIVE DEVELOPMENT PROGRAM -2023 (Virtual Mode)



In association with MUJ TEC & IGBC STUDENT CHAPTER, MUJ. In collaboration with KONBAC and IBF.

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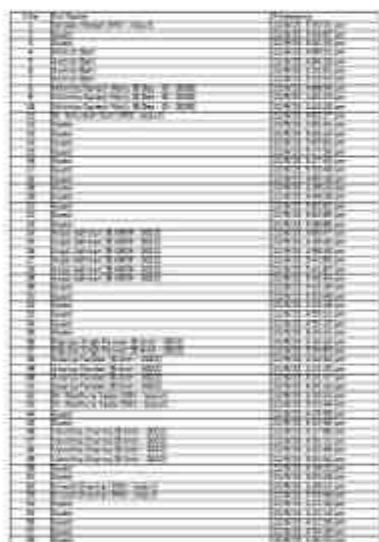
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ORGANISING SECRETARIES
Dr. Anil Kumar Sharma
Dr. Prashant Sharma

8 .Schedule of the event

S.No.	Description	Time
1	Welcome Address by Prof. (Dr.) Madhura Yadav, Director, SA&D, Manipal University Jaipur	9.30 AM
2	Inaugural Address by Hon'ble Mr. Suresh Prabhu, Member of Parliament, India's Sherpa to G7 & G20	9.35 AM
3	Address by Prof. (Dr.) Anuradha Chatterjee, Dean, FoD, Manipal University Jaipur	9.45 AM
4	Address by Mr. Sanjeev Karpe, Director, KONBAC Maharashtra	9.55 AM
5	Presidential Address by Prof. (Dr.) G. K. Prabhu, President, Manipal University Jaipur	10.10 AM
6	Vote of Thanks by Prof. Kinzalk Chauhan, SA&D, Manipal University Jaipur	10.20 AM
7	Fist day Expert Lecture by Dr. Jagdish Vengela	10.30 AM

9. Attendance of the Event:





10. Weblink:

<https://jaipur.manipal.edu/content/dam/manipal/muj/fod/Document/eventlist/EDP%20ON%20Bamboo%20-Event%20report.pdf>

11. Event Coordinators:



- Ar. Sanjeev Pareek (Assistant Professor, SA&D)
- Ar. Kinzalk Chauhan (Assistant Professor, SA&D)



GOVERNMENT OF INDIA
Ministry of Science & Technology
Department of Science & Technology
DST/TMD-EWO/WTI/2K19/EFWII/2019/102 (G)/2
Terms & Conditions

1. The grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report (Vis-a-Vis Target Vs-Achievement) at the end of each financial year duly reflecting the interest earned / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
2. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
3. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
4. The grant-in-aid being released is subject to the condition that:-
 - a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
 - b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
5. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be adjusted against future releases.
6. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India"
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial

Rules 2017

10. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication / media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
11. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
12. It is mandatory to use EAT module in PFMS, failing which no further funds shall be released.
13. Goods (Consumable/Equipment) available in GeM portal are to be procured mandatorily online through GeM only as per the provisions of Rule 149 of GFR.
14. The Grantee Institute should follow Global Tendering Enquiry (GTE) conditions as per Department of Expenditure ID Note No.4/1-2021-PPD dated 10.09.2021.
15. If One time assistance or non-recurring grant as Grant-in-Aid for Rs. 10.00 lakhs to Rs. 50.00 lakhs, it should be included in the Annual Report of the Institute.
16. The Grantee Institute must ensure any other provisions of GFR-2017 and guidelines/amendments issued from Govt. of India from time to time.

A handwritten signature or set of initials, possibly 'GS', written in blue ink. The letters are stylized and connected.



भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग

DST/TMD-EWO/WTI/2K19/EWFH/2019/102 (G)/2

निबंधन और शर्तें

1. अनुदानग्राही संस्थान प्रत्येक वित्त वर्ष के अंत में इस परियोजना के अंतर्गत प्राप्त अनुदान पर अर्जित/प्रोदभूत ब्याज को विधिवत रूप से दशति हुए अद्यतन प्रगति रिपोर्ट (लक्ष्य बनाम उपलब्धि) के साथ जीएफआर 2017 में विनिर्दिष्ट प्ररूप में वित्तीय वर्ष-वार उपयोग प्रमाण पत्र (यूसी) और व्यय का लेखापरीक्षित विवरण (एसई) विज्ञान और प्रौद्योगिकी विभाग को प्रस्तुत करेगा। यह परियोजना की समाप्ति की निर्धारित तारीख से एक वर्ष भीतर व्यय का अंतिम विवरण, उपयोग प्रमाण-पत्र और परियोजना समाप्ति रिपोर्ट प्रस्तुत करने की शर्त के भी अध्वधीन है।
2. अनुदानग्राही संस्थान को उपयोग प्रमाण-पत्र इस प्रभाग में भौतिक रूप में भेजने के साथ-साथ पीएफएमएस पोर्टल पर प्रविष्ट और अपलोड करना होगा। अनुवर्ती अंतिम किस्त प्रभाग द्वारा यूसी की स्वीकृति की पुष्टि और पीएफएमएस में पूर्ववर्ती उपयोग प्रमाण-पत्र की प्रविष्टि के बाद ही जारी की जाएगी।
3. यदि अनुदान एक ही परियोजना के अंतर्गत उपस्कर (रो) की खरीद के लिए पृथक संस्वीकृति आदेश के माध्यम से पूंजी-शीर्ष के अंतर्गत जारी किया गया है तो जारी किया गया पूंजी-शीर्ष अनुदान के लिए पृथक एसई-यूसी प्रस्तुत करना होगा।
4. जारी किया जा रहा सहायता अनुदान निम्नलिखित शर्तों के अध्वधीन है-
 - क) उपर्युक्त परियोजना के लिए संस्वीकृत पूंजी आस्तियों की खरीद करते समय अनुदानग्राही संस्थान के उचित नियमों के तहत संस्थान/संगठन द्वारा सामान्य वित्तीय नियमावली 2017 के उपबंधों के अनुरूप पारदर्शी खरीद प्रक्रिया का अनुपालन किया जाए और अनुदान प्राप्ति पर तुरंत प्रभाव से अनुदानग्राही संगठन द्वारा इस आशय का प्रमाण-पत्र प्रस्तुत किया जाए।
 - ख) उपयोग प्रमाण-पत्र/ व्यय विवरण प्रस्तुत करते समय, संगठन को जीएफआर 2017 के उपबंधों के अनुसरण में उपस्कर/पूंजी आस्तियों की खरीद के संबंध में संबंधित दस्तावेज-साक्ष्य प्रस्तुत करना सुनिश्चित करना होता है।
5. जीएफआर नियमावली 2017 के नियम 230 (8) के अनुसार अनुदानग्राही संस्थान को सुनिश्चित करना चाहिए कि किसी भी अनुदानग्राही संस्थान को जारी किए गए सहायता अनुदान या अग्रिम (प्रतिपूर्ति से भिन्न) पर प्राप्त समस्त प्रकार के ब्याज या अन्य आय को लेखों को अंतिम रूप दिए जाने के तुरंत बाद भारतीय समेकित निधि में अनिवार्य रूप से विप्रेषित किया जाए। ऐसे अग्रिमों को भविष्य में जारी की जाने वाली निधियों में समायोजित करने की अनुमति नहीं दी जाएगी।
6. जीएफआर नियमावली 2017 के नियम 230 (17) के अनुसार, "अनुदानग्राही संस्थान को भारत सरकार के निर्देशानुसार अपने नियंत्रणाधीन पदों या सेवाओं में अनुसूचित जाति या अनुसूचित जनजाति या ओबीसी के लिए आरक्षण रखने पर सहमत होना चाहिए।"
7. अनुदानग्राही संस्थान परियोजना का पृथक परीक्षित लेखा रखेगा और अनुदान की समस्त राशि बैंक खाते में सव्याज रखी जाएगी। वित्तीय वर्ष 2017-18 के दौरान और उसके बाद जारी अनुदान के लिए, अनुदान के लिए सभी प्रकार के ब्याज या अन्य आय ऐसे लेखों को अंतिम रूप दिए जाने के तुरंत बाद भारतीय समेकित निधि में

(गैर कर प्राप्ति पोर्टल (एनटीआरपी) अर्थात् www.bharatkosh.gov.in के माध्यम से) विप्रेषित की जाएगी, क्योंकि यह राशि भविष्य में जारी की जाने वाली राशि में समाधोजित नहीं की जाएगी। अनुवर्ती अनुदान के निर्गम/परियोजना खातों को बंद करने पर विचार किए जाने के लिए, व्यय वितरण/उपयोग प्रमाण-पत्र के साथ इस आशय का प्रमाण पत्र प्रस्तुत करना होगा।

8. डीएसटी, अनुदान से सृजित परिसंपत्तियों पर एकमात्र सुरक्षित अधिकार रखता है। सरकारी अनुदानों से पूरी तरह से या पर्याप्त रूप से अर्जित संपत्ति (जीएफआर 2017 में निर्धारित प्रक्रिया के अनुसार अप्रचलित और अनुप्रयोज्य, अनुपयोगी घोषित अनुदानों से इतर), का निपटारा डीएसटी का पूर्व अनुमोदन प्राप्त किए बिना नहीं किया जाएगा।

9. जैसा कि सामान्य वित्तीय नियमावली 2017 के नियम 236 (1) के तहत निर्धारित किया गया है, अनुदानग्राही संगठन का लेखा स्वीकृति प्रदाता प्राधिकारी और लेखा परीक्षक (भारत के नियंत्रक एवं महालेखापरीक्षक और डीएसटी के प्रधान लेखा कार्यालय दोनों द्वारा आंतरिक लेखा परीक्षा) द्वारा निरीक्षण किए जाने, जब भी संगठन को ऐसा करने के लिए कहा जाता है, हेतु अभिगम्य होगा।

10. इस परियोजना अनुदान से प्राप्त तकनीकी सहायता/वित्तीय सहायता की उचित पावती को अनुदानग्राही संगठन द्वारा सभी प्रकाशनों/मिडिया प्रकाशनी में मोटे अक्षरों में और परियोजना के पूरा होने के दौरान और तदुपरांत उनकी वार्षिक रिपोर्टों के शुरुआती पैराग्राफों में अनिवार्य रूप से दिखाया किया जाना चाहिए।

11. बॉन्ड के नियमों और शर्तों का पालन करने में असफल होने पर जीएफआर 2017 के नियम 231 (2) के अनुसार पूरी राशि सब्याज वापस करनी होगी।

12. पीएफएमएस में ईएटी मॉड्यूल का उपयोग करना अनिवार्य है, ऐसा न करने पर अन्य कोई भी आगामी निधि जारी नहीं की जाएगी।

13. जीएफआर के नियम 149 के उपबंधों के अनुसार जीईएम पोर्टल पर उपलब्ध वस्तुओं (उपभोज्य वस्तु / उपस्कर) का अनिवार्यतया आर्ने लाइन प्रापण जैम (जीईएम) ही के माध्यम से किया जाना है।

14. अनुदान ग्राही संस्थान को व्यय विभाग के आईडी नोट संख्या: 4/1/2021-पीपीडी दिनांक 10.09.2021 के अनुसार वैश्विक निविदाकरण जांच-पड़ताल (जीटीई) नियमों का पालन करना चाहिए।

15. यदि एकबारगी सहायता या गैर-आवर्ती अनुदान 10.00 लाख रुपये से 50.00 लाख रुपये के सहायता अनुदान का हो तो इसे संस्थान की वार्षिक रिपोर्ट में दर्ज किया जाना चाहिए।

16. अनुदान ग्राही संस्थान को जीएफआर-2017 के किसी भी अन्य उपबंध और समय-समय पर भारत सरकार द्वारा जारी दिशा-निर्देश/संशोधन का अनुपालन सुनिश्चित करना चाहिए।



GOVERNMENT OF INDIA
Ministry of Science & Technology
Department of Science & Technology
DST/TMD/EWO/WTLDM/2021/20 (G)
(Technology Mission Division)

Technology Bhawan, New Delhi
Dated: 23/02/2023

Sanction Order

Subject: Financial assistance for the project entitled "Providing low cost solution and appropriate management framework for the reject disposal of Community-based RO Plants in many areas of Rajasthan" submitted by Dr. Monika Sogani, MANIPAL UNIVERSITY JAIPUR, DEHMI KALAN, OFF JAIPUR-AJMER EXPRESSWAY, BAGRU-JAIPUR, 303007
Release of the first installment regarding

Sanction of the President is hereby accorded to the approval to the above mention project at a total cost of Rs. 82,48,118/- (Rupees Eighty Two Lakh Forty Eight Thousand One Hundred Eighteen only) for a duration of 3 Years Days. The detailed breakup of the grant for General as well as Capital Components are given below:-

General Component : ₹ 73,58,118/-
Capital Component : ₹ 8,90,000/-

Items	(All Institute) Budget Summary (In Rs.)			Total
	Year-1	Year-2	Year-3	
1- Non-Recurring				80000
Electronic TDS Meter-1 Unit - 1	80000	0	0	80000
Dissolved Oxygen Meter-1Unit - 1	250000	0	0	250000
Chlorophyll Meter-1Unit - 1	300000	0	0	300000
Magnetic stirrer (10 plate)- 1 Unit - 1	100000	0	0	100000
Laptop-1 Unit - 1	60000	0	0	60000
Water analyser-1 Unit - 1	100000	0	0	100000
Subtotal (Capital)	890000	0	0	890000
2- Recurring				3370080
Project Staff	1104480	1104480	1161120	3370080
Junior Research Fellow (JRF)-1 (@@ 31,000/- + 18% HRA (For 1st & 2nd Year & SRF 35,000/- +18% HRA for 3rd year)	438960	438960	495600	1373520
Research Associate-II-1 (@@ 47000/- + 18% HRA for full three years)	665520	665520	665520	1996560
Consumables	200000	125000	50000	375000
Contingency	150000	100000	50000	300000
Travel	250000	175000	150000	575000
Overhead	248669	198669	190700	638038
Other Cost-(fabrication of Lab Scale CW-MDC Unit and its Operation, fabrication of Culture Cabinet, Designing and Construction of Pilot Scale CW-MDC unit of Cement Concrete, Operation & maintenance and various testing cost of Pilot Scale CW-MDC unit, Outsourcing and Stakeholders workshop organization for dissemination of key findings and knowledge generated)	500000	600000	600000	1700000
Other Cost-(Membrane development for CW- MDC using agro based material,	400000	0	0	400000

60

Development of agro based PNSB absorbent, Outsourcing)				
Subtotal (General)	2853149	2303149	2201820	7358118
Total Project Cost (Cap.+ Gen.)	3743149	2303149	2201820	8248118

1. MANIPAL UNIVERSITY JAIPUR (Dr. Manika Sogani)

Items	Budget Summary (in Rs.)			Total
	Year-1	Year-2	Year-3	
1- Non-Recurring				60000
Laptop-1 Unit - 1	60000	0	0	300000
Chlorophyll Meter-1 Unit - 1	500000	0	0	250000
Dissolved Oxygen Meter-1 Unit - 1	250000	0	0	80000
Electronic TDS Meter-1 Unit - 1	80000	0	0	100000
Magnetic stirrer (10 plate)- 1 Unit - 1	100000	0	0	790000
Subtotal (Capital)	790000	0	0	
2- Recurring				1996560
Project Staff	665520	665520	665520	1996560
Research Associate-II-11 (6: 47000/- + 18% HRA for full three years)	665520	665520	665520	225000
Consumables	100000	75000	50000	150000
Contingency	50000	50000	50000	350000
Travel	150000	100000	100000	442156
Overhead	146552	149052	146552	
Any Other (Other Cost)-(fabrication of Lab Scale CW-MDC Unit and its Operation, fabrication of Culture Cabinet, Designing and Construction of Pilot Scale CW-MDC unit of Cement Concrete, Operation & maintenance and various testing cost of Pilot Scale CW-MDC unit, Outsourcing and Stakeholders workshop organization for dissemination of key findings and knowledge generated)	500000	600000	600000	1700000
Subtotal (General)	1612072	1639572	1612072	4863716
Total Project Cost (Cap.+ Gen.)	2402072	1639572	1612072	5653716

2. UNIVERSITY OF RAJASTHAN (Dr. Panchaj John)

Items	Budget Summary (in Rs.)			Total
	Year-1	Year-2	Year-3	
1- Non-Recurring				100000
Water analyser-1 Unit - 1	100000	0	0	100000
Subtotal (Capital)	100000	0	0	
2- Recurring				1373520
Project Staff	438960	438960	495600	1373520
Junior Research Fellow (JRF)-10 (6: 31,000/- + 18% HRA (For 1st & 2nd Year & SRF 25,000/- + 18% HRA for 3rd year)	438960	438960	495600	100000
Consumables	50000	50000	0	100000
Contingency	50000	50000	0	125000
Travel	50000	50000	25000	135882
Overhead	47117	47117	41648	1834402
	636077	636077	562248	

3. KASHI INSTITUTE OF TECHNOLOGY (Mr. Kumar Soma)

Items	Budget Summary (in Rs.)			Total
	Year-1	Year-2	Year-3	
1- Non-Recurring				
Subtotal (Capital)	0	0	0	
2- Recurring				
Consumables	50000	0	0	50000
Contingency	50000	0	0	50000
Travel	50000	25000	25000	100000
Overhead	55000	2500	2500	60000
Any Other (Other Cost)-(Membrane development for CW- MDC using agro based material, Development of agro based PNSB absorbent, Outsourcing)	400000	0	0	400000
Subtotal (General)	605000	27500	27500	660000
Total Project Cost (Cap.+ Gen.)	605000	27500	27500	660000

2. The sanction of the President is also accorded to the release of Rs. 28,53,149/- (Rupees Twenty Eight Lakh Fifty Three Thousand One Hundred Forty Nine only) to the "Director/Registrar/Principal/Controller/Comptroller, MANIPAL UNIVERSITY JAIPUR" being the first installment of grant as mentioned above table under "General Component" for the above mentioned project.

3. The expenditure involved is debitible to Demand No. 89, Department of Science & Technology for the year 2022-23:

3425	Other Scientific Research(Major Head)
3425.60	Others - (Sub-Major Head)
3425.60.200	Assistance to Other Scientific Bodies(Minor Head)
3425.60.200.70	Innovation,Technology Development and Deployment
3425.60.200.70.00	Detailed Head
3425.60.200.70.00.31	Grants-in-aid General
	(Previous: 3425.60.200.26.01.31)

4. The amount of Rs. 28,53,149/- (Rupees Twenty Eight Lakh Fifty Three Thousand One Hundred Forty Nine only) will be drawn by DDO, DST and disbursed to the "CNA account of Autonomous body SERB in respect of Innovation, Technology Development and Deployment Scheme".

Name of A/C Holder	Innovation Technology Development and Deployment
Bank A/C No	349902010051240
Name of the Bank & Branch	Union Bank of India, Safdarjang Enclave - New Delhi
RTGS/IFSC code	UBIN0534994

5. The amount of Rs. 28,53,149/- (Rupees Twenty Eight Lakh Fifty Three Thousand One Hundred Forty Nine only) will be drawn by the "CNA account of Autonomous body SERB and will be disbursed to the Director/Registrar/Principal/Controller/Comptroller, MANIPAL UNIVERSITY JAIPUR". The bank details for electronic transfer of funds through RTGS are given below:-

Name of A/C Holder	MANIPAL UNIVERSITY JAIPUR
Bank A/C No	219012010000703
Name of the Bank & Branch	Union Bank of India
RTGS/IFSC code	UBIN0821900

6. As per Rule 234 of GFR 2017, the sanction has been entered at S. No 200, in the register of grants maintained by the Technology Mission Division for the scheme WTI Call 2021 on Desalination Technologies.

7. This issues with the concurrence of IFD vide their Concurrence Dy. No. IFD/C/II/170223/31/03435 dated 17/02/2023.

8. The GI will keep all the funds received in the Central Nodal Account only and shall not transfer the funds to any other account or not divert the same to Fixed Deposits/ Flexi-Account/ Multi-Option Deposit Account/ Corporate Liquid Term Deposit (CLTD).

account etc. The funds released to GI shall not be parked in bank account of any other agency.

9. The GI will ensure the compliance of OM, No. F. No. 1(18)/PFMS/FCD/2021 dated March 9, 2022 of Department of Expenditure, Ministry of Finance.

10. Out of the release of Rs. 28,53,149/- (G) (Rs. 16,12,072/- for Manipal University Jaipur, (Darpan ID-RJ:20170115730), Rs. 6,36,077/- for University of Rajasthan and Rs. 6,05,000/- for Kashi Institute of Technology (Darpan ID-UP:2017.015296) under the recurring head and out of release of Rs. 8,90,000/- (C) (Rs. 7,90,000/- (Manipal University Jaipur) and Rs. 1,00,000/- (University of Rajasthan, Jaipur) towards the First-year installment.

11. This sanction order is subject to the **Terms & Conditions** as annexured.



Dr. Sanjai Kumar
(Scientist - 'D')
sanjai.k@gov.in

To,
The Pay & Accounts Officer,
Department of Science & Technology,
New Delhi - 110 016

Copy of information and necessary action to:

1. The Principal Director of Audit, Scientific Department, 11th floor, AGR Building, I.P. Estate, New Delhi.
2. The Financial Advisor, Integrated Finance Division, Technology Bhavan, New Mehrauli Road, Block C, Qutub Institutional Area, New Delhi, Delhi 110016
3. The Internal Audit Wing, Department of Science & Technology, Technology Bhavan, New Mehrauli Road, Block C, Qutub Institutional Area, New Delhi, Delhi 110016
4. Drawing and Disbursing Officer, DST, Cash Section. (two copies)
5. Dr. Monika Sogani, Associate Professor Senior Scale, Department of Biosciences, MANIPAL UNIVERSITY JAIPUR, Delhi Kalan, Old Jaipur-Ajmer Expressway, Jaipur, Rajasthan - 303007
6. Dr. Placheril John, Professor and Head, Department of Zoology, UNIVERSITY OF RAJASTHAN, Jaipur, Jaipur, Rajasthan - 302004
7. Mr. Kumar Somi, Assistant Professor, HoD, Mechanical Engineering, KASHI INSTITUTE OF TECHNOLOGY, Varanasi, Varanasi, Uttar Pradesh - 221307
8. The Director/Registrar/Principal/Controller/Comptroller, KASHI INSTITUTE OF TECHNOLOGY, Varanasi, Varanasi, Uttar Pradesh - 221307
9. The Director/Registrar/Principal/Controller/Comptroller, MANIPAL UNIVERSITY JAIPUR, Delhi Kalan, Old Jaipur-Ajmer Expressway, Jaipur, Rajasthan - 303007
10. The Director/Registrar/Principal/Controller/Comptroller, UNIVERSITY OF RAJASTHAN, Jaipur, Jaipur, Rajasthan - 302004
11. Secretary, SERB, New Delhi (for allocation of limits to implementing agency)
12. Head (Technology Mission Division) DST
13. Sanction Folder (Technology Mission Division)



Dr. Sanjai Kumar
(Scientist - 'D')
sanjai.k@gov.in