



THE ASSAM
ROYAL GLOBAL UNIVERSITY
GUWAHATI

CRITERION 6

GOVERNANCE, LEADERSHIP and MANAGEMENT

METRIC NO.
6.4.1

**Extramural Grants
and Innovations**



Debajit Borah <dborah89@gmail.com>

Research project submitted to ALSBT Hub

2 messages

Probodh Borah <probodh.borah@aau.ac.in>
To: Debajit Borah <dborah89@gmail.com>

Mon, Sep 19, 2022 at 10:26 PM

Dear Dr. Borah,

I am glad to inform you that the Expert Committee meeting held on 16th September 2022 has recommended your proposal on the topic "Production of commercial grade banana fruit beer and assessment of its nutritional values" submitted to DBT-funded Advanced Level State Biotech Hub for funding and suggested the following:

- Nutritive value of the prepared beer should be determined both after preparation and storage.
- Budget for NR should be reduced to 2.0 lakh, Travel 20,000, Contingencies 1.0 lakh (total), and consumable 5.0 lakh (total).
 - Budget should be recast as 5 lakhs for 1st and 3.63 lakhs for 2nd year.

In the light of the above, you are requested to submit the revised proposal on or before 27th September 2022 via email. Please note that there is no need to submit a hard copy again.

Looking forward to receiving your response in time.

With regards,

Dr. Probodh Borah, PhD, FNAVS
Professor & Head, Dept. of Animal Biotechnology
& Coordinator, Advanced Level State Biotech Hub (Assam)
College of Veterinary Science
Assam Agricultural University
Khanapara, Guwahati-781022, INDIA
Website: <http://www.vetbifguwahati.ernet.in>
My blogs: <http://mor-anubhav.blogspot.com>
<http://bigyanbichitra.blogspot.com>
<http://borgeets.blogspot.in>

Please visit our online repository at www.babrone.edu.in and the e-zine BioNE at www.babrone.edu.in/blog

Debajit Borah <dborah89@gmail.com>
To: Probodh Borah <probodh.borah@aau.ac.in>

Mon, Sep 19, 2022 at 10:40 PM

Respected Sir

At the outset I would like to convey my sincere gratitude for giving me this opportunity and trusting our hard work. As a beginner it's a great opportunity for us to do some quality work and I will try my level best to give the best possible output. I shall send you the final proposal at the earliest with the suggested modifications.

Thanking you Sir once again

[Quoted text hidden]

CONTRACT FOR EXPERT

This Agreement is made on this 6th day of July 2022

By and between

Grant Thornton Bharat LLP (formerly Grant Thornton India LLP), a limited liability partnership with LLP Identity Number AAA-7677 and having its registered office and principal place of business at L-41, Connaught Circus, New Delhi, 110001 and a branch office at Plot No 19A, 2nd Floor, Sector 16A, Noida 201301 (hereinafter referred as "GTBL" or the "Firm")

And

Royal Global University., incorporated under the laws of India and having its registered place of business at NH-37, Opposite Tirupati Balaji Temple, Betkuchi, Guwahati, Assam - 781035, (hereinafter referred to as the "Service Provider")

(The above shall be individually referred to as 'Party' and collectively as 'Parties')

Whereas the Firm being in the business of providing professional services, requires certain expert services for its assignment on NTPC Bongaigaon.

And Whereas the Service provider being a firm providing consulting services, has the expertise that is required by the Firm for the assignment mentioned above.

And Whereas the Firm has approached the Service Provider and the Service Provider has agreed to assist the Firm by providing its services for the specific assignment of the Firm.

The Agreement sets out the terms under which the Service Provider shall provide its services on the assignment and other duties as required and approved by the Firm.

1. TERM:

The term of this Agreement (hereinafter referred to as "Term") shall begin on June 28, 2022 and expire on 30 September, 2022 provided that it may be extended by mutual agreement in writing with same or additional terms and may be terminated during the Term as provided in Section 9 hereof.

2. DUTIES AND SERVICES:

- i) The parties have agreed that the Service Provider shall provide the services to the Firm as per its requirements and as set out in Schedule -1.
- ii) The Service Provider undertakes to ensure the following:

- a. To faithfully and diligently provide services to the Firm and shall comply with all lawful instructions and guidance of the Firm and of any persons duly appointed by the Firm to give such instructions.
- b. To not act in a manner which is, in the opinion of the Firm, detrimental to the interests of the Firm.
- c. To take proper and reasonable precautions to preserve from loss, destruction or misuse of any facilities, equipment, tools or assets provided or made available by the Firm, in order to enable the Service Provider to carry out its obligations.
- d. That any equipment or asset, if provided by the Firm, shall be returned to the Firm on termination or expiration of this agreement
- e. That it shall be bound by and required to observe the Firm's Code of Conduct, Policies and Procedures, specially related to Independence and conflict policies as applicable during the period of rendering services in terms of this Agreement.
- f. It shall not assign or further delegate its duties and obligations under this Agreement.

3. REMUNERATION AND PAYMENT:

- i) The Service Provider shall be paid a fee of INR 1,98,000 (Rupees one lakh ninety eight thousand) **exclusive of GST**. It shall invoice the Firm as per the payment schedule as mentioned below with taxes as applicable.
 - a. Signing of the contract – 35%
 - b. After completion of assignment – 65%
- ii) Out-of-pocket expenses comprising conveyance, travel costs, board and lodging, actually incurred by the Service Provider in connection with the assignment or duties, is inclusive of the above total fee and will not be reimbursed by the Firm to the service provider.

4. DISCLOSURE OF INFORMATION:

- i) During the provision of professional services, the Service Provider may acquire information which is confidential and proprietary to the Firm, or any of the Clients or of its affiliates or of any other party to whom the Firm owes a confidentiality obligation (hereinafter "Confidential Information").
- ii) The Service Provider undertakes not to use the Confidential Information in any manner not specifically authorized by, or to the detriment of, the Firm or its clients or its affiliates, and agrees not to disclose Confidential Information to any third party either during the term of this Agreement, except as may be necessary in the proper course of providing professional services, or after the term of this Agreement.
- iii) The Service Provider shall return any Confidential Information in possession at the end of the term of this Agreement.

5. NON-SOLICITATION:

The Service Provider undertakes during the effective term of this agreement and for a period of 1 (one) year thereafter, not to solicit, hire or employ directly or indirectly any partner, director, personnel or employee of the Firm except with the prior written consent of the Firm.

6. MODIFICATION AND WAIVER:

This Agreement shall not be amended or modified except by written instrument executed by the Firm and Service Provider. The failure of the Firm or Service Provider to insist upon strict performance of any provision hereof shall not constitute a waiver of, or estoppel against asserting, the right to require such performance in the future, nor shall a waiver or estoppel in any one instance constitute a waiver or estoppel with respect to a later breach of a similar nature or otherwise.

7. RESPONSIBILITY & LIABILITY:

The Service Provider shall be responsible for the consulting services, advice provided by it while rendering services under this Agreement. The Service provider shall indemnify the Firm and be liable for any damages, liability, penalties, costs or claims arising out of or in any way relating to the work carried out by it. In no event shall the liability of the Service Provider exceed the amount of consideration receivable by it in terms of this Agreement.

8. RELATIONSHIP OF PARTIES:

This agreement is not a joint venture, partnership or any other sharing arrangement and is only for provision of services by the Service Provider to the Firm and shall not be construed or understood to be a partnership, agency, contracting/sub-contracting or any other legal relationship between the Service provider and the Firm save and except what is specifically provided under the terms of this Agreement.

9. TERMINATION:

During the term of this Agreement the Firm may terminate the Agreement by giving the Service Provider one month's notice. However, the Firm shall be liable to pay the Service Provider the amount of any outstanding bills and such unbilled fees for services rendered prior to such termination

10. INTELLECTUAL PROPERTY RIGHTS:

The copyright and any other intellectual property rights in the works delivered by the Service Provider pursuant to this Agreement shall belong to the Firm. However, the Service Provider shall have the right to use such documents and materials for legitimate purposes.

11. RESTRICTIVE COVENANT:

The Service Provider shall not, except with the prior written consent of the Firm either personally or by its agents during the term of this agreement or a period of three years after the expiration or termination of this agreement directly or indirectly:

- i) Provide or attempt to provide any services directly or indirectly to any entity which is or was a Client of the Firm or any of its affiliates at any time on or before the date of termination of this agreement.
- ii) Entice or attempt to entice away from the Firm or its affiliates, any personnel including partners, directors, employees, consultants, trainees etc who is or was under the contractual obligations to the Firm or its affiliates at any time during the term of this Agreement.

12. SEVERABILITY:

If any of the terms or conditions of this Agreement are held to be unenforceable or invalid by any court of competent jurisdiction, such unenforceability or invalidity shall not render the rest of the Agreement as such. Instead, this Agreement shall be construed as if it did not contain that particular provision(s) at all. The rights and obligations of the parties shall be construed and enforced accordingly, and this Agreement shall thereupon remain in full force and effect.

13. MONEY LAUNDERING:

The Service Provider shall each comply with applicable Money Laundering Regulations.

14. ANTI- CORRUPTION AND ANTI- BRIBERY:

The Firm and the Service Provider shall maintain in place throughout the term of this Agreement its own policies and procedures, including, but not limited to, adequate procedures to ensure compliance with Anti-Corruption and Bribery Laws, and will enforce them where appropriate.

15. NOTICES:

Any notice to be sent hereunder shall either be delivered personally or sent by registered post. The address for service on the Firm shall be L 41 Connaught Circus, New Delhi 110001 India marked Attention of: Abhishek Tripathi, Associate Partner, Grant Thornton Bharat LLP and on the Service Provider shall be Royal Global University, NH-37, Opposite Tirupati Balaji Temple, Betkuchi, Guwahati, Assam - 781035 marked Attention of: Dr. Diganta Munshi, Registrar, Royal Global University. A notice shall be deemed to have been served as follows:

- a) if personally delivered, at the time of delivery;
- b) if posted, at the expiration of 48 hours after the envelope containing the same was delivered into the custody of the postal authorities.

16. GOVERNING LAW AND JURISDICTION:

This Agreement shall be governed by and construed in accordance with the laws of India and subject to the exclusive jurisdiction of the courts of New Delhi. The Service Provider shall comply with the policies and procedures of the Firm as applicable.

17. ENTIRE AGREEMENT:

All prior negotiations and agreements between the parties hereto relating to the transactions, employment and services contemplated hereby are superseded by this Agreement with its Schedules, and there are no representations, warranties, understandings or agreements with respect to such transactions, employment or services other than those expressly set forth herein.

IN WITNESS WHEREOF, the Firm and the Service Provider have executed this Agreement as of the aforementioned date.



Dr. Diganta Munshi
By : Royal Global University
Designation: Registrar

Signature Not Verified

Signed by : ABHISHEK TRIPATHI
Date : 06-07-2022 12:31:05

Abhishek Tripathi
By: Grant Thornton Bharat LLP
(formerly Grant Thornton India LLP)

Designation: Associate Partner

Witness:

- 1) Name
Place
Signature

- 2) Name
Place
Signature

SCHEDULE 1

SCOPE OF SERVICES

The field team will comprise of one Principal Investigator – Dr. Priyanka Patowari, Assistant Professor, Dept. of Social Work, Royal School of Humanities and Social Sciences and 6 MSW 4th Semester students who would need to perform the following –

1. Translation of survey tools
2. Formulate tools & frameworks for field assessment in consultation with Team GT
3. Data Collection – Door to door
4. Facilitate and conduct the focused group discussions (FGD)
5. Data Analysis and Report Writing



**DIRECTORATE OF RESEARCH (VETERINARY)
ASSAM AGRICULTURAL UNIVERSITY
KHANAPARA, GUWAHATI-781022**

ORDER

With the approval of the Hon'ble Vice-Chancellor, Assam Agricultural University, sanction is hereby accorded for implementation of the research project entitled "Production of commercial grade banana fruit beer and assessment of its nutritional values" for a period of 2 years at a total cost of Rs. 8,51,000.00 (Rupees Eight lakhs fifty-one thousand only) under the 'Microgrant' component of the DBT-funded Advanced Level State Biotech Hub (ALSBT Hub) project on the terms and conditions detailed hereunder –

1. The Project:

1.1 Title: 'Production of commercial grade banana fruit beer and assessment of its nutritional values'

1.2 Name and address of the investigators:

Principal Investigator: Dr. Debajit Borah, Associate Professor, Department of Biotechnology, The Assam Royal Global University, Guwahati-781035

Co-Investigators: Dr. Bhaskarijyoti Gogoi, Assistant Professor, Department of Biotechnology, The Assam Royal Global University, Guwahati-781035

1.3 Objectives:

1. Fermentation process optimization and production of commercial grade banana beer
2. Nutritional components, cytotoxicity and shelf-life assessment of the product

1.4 Time schedule: The duration of the project is 2 years from the date of this sanction order.

1.5 Project cost:

1.5.1 The total cost of the project cost is Rs. 8,51,000.00 (Rupees Eight lakhs fifty-one thousand only) as per the details given below:

Budget head	Year I (Rs.)	Year II (Rs.)	Total (Rs.)
A. Non-recurring:			
Equipment and accessories	2,00,000.00	-	2,00,000.00
Subtotal (A)	2,00,000.00	-	2,00,000.00
B. Recurring:			
Consumables	2,50,000.00	2,50,000.00	5,00,000.00
Contingencies	30,000.00	70,000.00	1,00,000.00
Travel	5,000.00	15,000.00	20,000.00
Others, if any	-	-	-
Overhead charges	14,250.00	16,750.00	31,000.00
Subtotal (B)	2,99,250.00	3,51,750.00	6,51,000.00
Total (A+B)	4,99,250.00	3,51,750.00	8,51,000.00

1.6. Equipment: Details of the equipment sanctioned for the project are given at Annexure-I.

2.1. Terms and conditions:

Detailed Terms and Conditions of the grant are given separately at Annexure-II.

2.2. Memorandum of Agreement: A Memorandum of Agreement (MoA) will be signed between the Director of Research (Veterinary), AAU and the grantee institution on a non-judicial stamp paper of Rs. 100.00 in the enclosed format and the fund will be released subject to submission of signed MoA and Terms & Conditions of the grant.

(Niranjan Kalita)
Director of Research (Veterinary)
AAU, Khanapara, Guwahati-22

Memo No. 99/DRV/341/2022-23/Microgrants/ 5032-40
Copy for information and necessary action to:

Dated : 31.10.22

1. The Secretary to the Hon'ble Vice-Chancellor, Assam Agricultural University, Jorhat-785013. This has referrence to the Hon'ble Vice-Chancellor's approval in the N¹³; Dated 15.10.2022
- ✓ 2. The Registrar, AAU, Jorhat-785013
3. The Comptroller, AAU, Jorhat-785013
4. Dr. P. Borah, Professor & Head, Dept. of Animal Biotechnology and Project Coordinator, DBT-funded ALSBT Hub project, College of Veterinary Science, AAU, Khanapara, Guwahati-781022
5. The Registrar, The Assam Royal Global University, Guwahati-781035
6. Dr. Debajit Borah, Associate Professor, Department of Biotechnology, The Assam Royal Global University, Guwahati-781035.
7. Dy. Comptroller, AAU, Khanapara, Guwahati-22
8. Account Section, Directorate of Research (Vety.), AAU, Khanapara, Guwahati-781022
9. Office copy

(Niranjan Kalita)
Director of Research (Veterinary)
AAU, Khanapara, Guwahati-22

LIST OF APPROVED EQUIPMENT

Details of equipment sanctioned for the implementation of the project entitled, "Production of commercial grade banana fruit beer and assessment of its nutritional values"

Sl. No.	Name of the equipment	Number	Cost (Rs.)
1.	Shaker incubator	1	2,00,000.00


(Niranjana Kalita)
Director of Research (Veterinary)
AAU, Khanapara, Guwahati-22



SERB-Notification

1 message

<SERB_Administrator@serbonline.in>
To: serbinfo1@gmail.com

Mon, 8 May, 2023 at 8:59 pm



Science and Engineering Research Board

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)
Department of Science and Technology, Government of India

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Approval Letter

File Number: SUR/2022/002517

Dated: 08-May-2023

Subject: Project titled "Multi-omics network analysis to decipher miRNA-TF-gene interaction in regulation of flavonoid and carotenoid biosynthetic pathways in Chakhao cultivars of aromatic black rice from North-East India."

Dear Dr. UPASNA CHETTRY,

The project cited above has been recommended by the related **State University Research Excellence (SERB SURE)** to the Science and Engineering Research Board (SERB) for funding. The following are the items recommended for a period of 3 years. The final budget to be sanctioned would be based on quotations received, existing norms, funds availability etc.

The committee recommended the following budget

Manpower :

-> **Project Associate I - 1**

Equipment Details : Rs. 500000

-> **PCR - 1**

Consumables : Rs. 300000

Other Cost : Rs. 200000

Travel Cost : As per norms

Contingencies : As per norms

Overhead : As per norms

You need to accept the above budgetary allocation before proceeding further. To accept the budgetary recommendations , you may follow the following steps :

1. Go to www.serbonline.in through your credentials

2. Go to Menu --> Proposal submission --> View submitted proposals

3. Click on the link under Status column "Proposal Approved, Acknowledgment pending from PI"

You are requested to upload the following documents of the approved budget strictly within one month from the date of this letter.

1. Upload the lowest quotation for equipment/s (including freight, insurance, customs charges etc., if any).
2. Salary structure for the project staff (including HRA, Medical Benefits, if applicable etc.).
3. A certificate stating that any visit abroad for a period more than eight weeks would be undertaken after due permission from SERB, may also be submitted.
4. RTGS details of the implementing institute to facilitate transfer of the fund as per the template.
5. Any other documents (as detailed bellow specific the programme concerned).

SERB has adopted the Scientific Social Responsibility (SSR) Policy which mandates SERB Grantees to undertake some SSR activities during their project period. You are requested to read the SSR guidelines available under SSR menu and choose the activities according to your preference. Please note that choosing the SSR activities is mandatory for issue of financial sanction subject to submission and acceptance of other necessary documents

Kindly upload the documents related viz., animal ethical clearance certificate, institutional bio safety clearance certificate, etc., matching with exact approved title of project submitted to SERB.

If the project does not require (viz., animal ethical clearance certificate, institutional bio safety clearance certificate, etc.) please confirm with a self-certification saying that it does not involve any animal/human studies or genetic modification in any organisms or bio safety issues.

(Kindly note that during the issue of sanction order or during the implementation of this project, if SERB come across/found that the project work involves/requires animal/human studies or genetic modification in any organisms or bio safety issues, RCGM approval/ approval from Biodiversity Management Committee Environmental clearance, the project may be terminated without any notice.)

Please note that release of grant is subject to availability of funds under the scheme. Kindly quote the reference number in all future correspondence. The project's reference no. **SUR/2022/002517** may also be mentioned in all research communications arising from the above project.

Yours sincerely,

(Dr. V Ramesh)

Email: ms_pac_sure@serbonline.in

Dr. UPASNA CHETTRY

BOTANY

Royal Global University , Nh-37, Opp. Tirupati Balaji Temple, Betkuchi, Guwahati, Assam-781035

***** LEGAL DISCLAIMER *****

Please do not reply to this mail !!

[SERB is now on Social-Media. Kindly follow us on Twitter: @serbonline <https://www.twitter.com/serbonline>]

This is a system generated information and does not require any signature. This E-Mail may contain Confidential and/or legally privileged Information and is meant for the intended recipient(s) only. If you have received this e-mail in error and are not the intended recipient/s, kindly notify us at info@serbonline.in and then delete this e-mail immediately from your system. Any unauthorized review, use, disclosure, dissemination, forwarding, printing or copying of this email or any action taken in reliance on this e-mail is strictly prohibited and may be unlawful. Internet communications cannot be guaranteed to be timely, secure, error or virus-free. The sender does not accept any liability for any errors, omissions, viruses or computer problems experienced by any recipient as a result of this e-mail.

'SAVE PAPER - THINK BEFORE YOU PRINT!'

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Tripura Bamboo and Cane Development Centre

(A not for profit company registered u/s 8 of Indian Companies Act 1956)

, Gandhigram, Hatipara, Tripura West-799012

Regional Office- 1A, K.K Bhattacharya Path, Hatigaon, Guwahati, Assam,

Tel/Fax: +91-9436130617 , Website: www.tribac.org

Ref: TRI-GEN/2021/309

Date: 12/12/2021

To,

Dr. Annesha Borah
Assistant Professor
The Assam Royal Global University
Guwahati, Assam

Sub: Acceptance & approval of research proposal dated 10.12.2021 reg...

Revered Madam,

Warm Greetings to you!!

As cited above I am pleased to inform you that Research team of TRIBAC has accepted your proposal of study submitted on 10.12.2021 on "Current Status & Development of Bamboo Industry in Assam" and approve the same.

You are hereby requested to initiate the study on above mentioned topic and to complete within stipulated timeline. TRIBAC will also support you with a financial grant of INR. 1,10,000 (One Lakh Ten Thousand Only) to meet up different expenditure related to the study.

Look forward to hear from you.

Best Regards

Dr. Harun Ahmed
Director, TRIBAC
Mob: 9401123701
www.tribacindia.org





University Established under Karnataka State Act 47 of 2013

7th May 2021

CERTIFICATE OF PARTICIPATION & APPRECIATION

This is to Certify that **Dr. Debajit Boarh** from The Assam Royal Global University has participated in a panel discussion titled "**How to write an effective Introduction and Review of Literature for a Research Paper**" as an expert panel member. The event was conducted as part of the Research Series discussion, by Garden City University for Ph.D. Research Scholars and Faculty members on **7th May 2021**.

Based on the feedback received from the participants, we are delighted to inform you that your knowledge contribution and tips provided to write an effective introduction and review of the literature was exemplary.

We look forward to associate with you in future events/ projects.

07/05/2021

Dr.D.P.Sudhagar

Director- IQAC

CITY OFFICE: GCC House, #340, 5th Main, Indiranagar Double Road,
1st Stage Indiranagar, Bangalore-560038 Ph: +91 80 25261112 Fax: +91 80 25291414

E- mail: gcu@gardencity.university

www.gardencity.universiy

ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL
(Science, Technology and Climate Change Department Govt. of Assam)

Bigyan Bhawan
G.S. Road
Guwahati - 781 005
Assam, India



Telephone : 0361- 2450646
: 0361 - 2464619
Fax : 0361- 2464617
e-mail; astec@rediffmail.com

No.ASTEC/S&T/206/2020-21/1962-1967

Dt. 19.11.22

From : Dr.Jaideep Baruah
Head (I/c)S&T Division
ASTE Council

To The Registrar
Royal Global University
Guwahati -781035

Sub : Students Science Project - Fund Release
Ref : Your letter No. RGU/Chem : dated Guwahati- 05.05.2020

Sir,

In inviting a kind reference to the subject and letter mentioned above, this Council is pleased to release a sum of Rs. 10,000/- (Rupees Ten thousand)only vide cheque No. 060297 dt. 16.11.2022 for Student Science Project :

i) Metal Nanoparticles for Petroleum Spill Degradation by Priyanka Das,M.Sc, 4thsems, Dept. of Chemistry,Royal Global University,Guwahati (For Rs.10,000/- Sanction letter No. ASTEC/S&T/206/2020-21 dtd.05.05.2020

Yours faithfully

(Jaideep Baruah)

Copy to 1.Head, Dept.. of Chem,RGU for information
2. Priyanka Das,MSc 4th sems,RGU
✓3. Dr.Debojeet Sahu,Guide
4. Concerned file S&T Dvn
5. Accounts Section.

(Jaideep Baruah)



25-06-2021

Attendance Certificate

This is to certify that **Dr. Debajit Borah**, Assistant Professor, Department of Biotechnology, Royal Global University, Guwahati was part of an Expert Panel for online panel discussion titled 'How to Write an Effective Introduction and Review of Literature for a Research Paper' held on 7th May 2021.

Garden City University wishes Dr. Debajit Borah all the very best.

Dr. Debajit Borah
25/6/2021
Registrar
REGISTRAR
GARDEN CITY UNIVERSITY
BANGALORE - 560 049



**DIRECTORATE OF RESEARCH (VETERINARY)
ASSAM AGRICULTURAL UNIVERSITY
KHANAPARA, GUWAHATI-781022**

ORDER

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1. The Project:

1.1 Title: 'Production of commercial grade banana fruit beer and assessment of its nutritional values'

1.2 Name and address of the investigators:

Principal Investigator: Dr. Debajit Borah, Associate Professor, Department of Biotechnology, The Assam Royal Global University, Guwahati-781035

Co-Investigators: Dr. Bhaskarjyoti Gogoi, Assistant Professor, Department of Biotechnology, The Assam Royal Global University, Guwahati-781035

1.3 Objectives:

1. Fermentation process optimization and production of commercial grade banana beer
2. Nutritional components, cytotoxicity and shelf-life assessment of the product

1.4 Time schedule: The duration of the project is 2 years from the date of this sanction order.

1.5 Project cost:

1.5.1 The total cost of the project cost is Rs. 8,51,000.00 (Rupees Eight lakhs fifty-one thousand only) as per the details given below:

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Contingencies	30,000.00	70,000.00	1,00,000.00
Travel	5,000.00	15,000.00	20,000.00
Others, if any	-	-	-
Overhead charges	14,250.00	16,750.00	31,000.00
Subtotal (B)	2,99,250.00	3,51,750.00	6,51,000.00
Total (A+B)	4,99,250.00	3,51,750.00	8,51,000.00

1.6. Equipment: Details of the equipment sanctioned for the project are given at Annexure-I.

2.1. Terms and conditions:

Detailed Terms and Conditions of the grant are given separately at Annexure-II.

2.2. Memorandum of Agreement: A Memorandum of Agreement (MoA) will be signed between the Director of Research (Veterinary), AAU and the grantee institution on a non-judicial stamp paper of Rs. 100.00 in the enclosed format and the fund will be released subject to submission of signed MoA and Terms & Conditions of the grant.

(Niranjan Kalita)
Director of Research (Veterinary)
AAU, Khanapara, Guwahati-22

Memo No. 99/DRV/341/2022-23/Microgrants/ 5032-40
Copy for information and necessary action to:

Dated : 31.10.22

1. The Secretary to the Hon'ble Vice-Chancellor, Assam Agricultural University, Jorhat-785013. This has referrence to the Hon'ble Vice-Chancellor's approval in the N¹³; Dated 15.10.2022
- ✓ 2. The Registrar, AAU, Jorhat-785013
3. The Comptroller, AAU, Jorhat-785013
4. Dr. P. Borah, Professor & Head, Dept. of Animal Biotechnology and Project Coordinator, DBT-funded ALSBT Hub project, College of Veterinary Science, AAU, Khanapara, Guwahati-781022
5. The Registrar, The Assam Royal Global University, Guwahati-781035
6. Dr. Debajit Borah, Associate Professor, Department of Biotechnology, The Assam Royal Global University, Guwahati-781035.
7. Dy. Comptroller, AAU, Khanapara, Guwahati-22
8. Account Section, Directorate of Research (Vety.), AAU, Khanapara, Guwahati-781022
9. Office copy

(Niranjan Kalita)
Director of Research (Veterinary)
AAU, Khanapara, Guwahati-22

LIST OF APPROVED EQUIPMENT

Details of equipment sanctioned for the implementation of the project entitled, "Production of commercial grade banana fruit beer and assessment of its nutritional values"

Sl. No.	Name of the equipment	Number	Cost (Rs.)
1.	Shaker incubator	1	2,00,000.00


(Niranjana Kalita)
Director of Research (Veterinary)
AAU, Khanapara, Guwahati-22



OFFICE OF THE PRINCIPAL
SIBSAGAR GIRLS' COLLEGE

SIVASAGAR:ASSAM

(Re-Accredited by NAAC)

MODEL DEGREE COLLEGE (RUSA)

SRI BUDDHIN MISRA, M.A., M.Phil., LLB
Principal In-charge & Secretary

Phone: 03772-232778, Fax : 03772-222385
E-mail: principalsgc@yahoo.co.in
Website : www.sibsagargirlscollege.org.in

Ref. No. GC/Misc./311/2020

Date:-22/07/2020

To

Dr. Debajit Borah,
Assistant Professor,
Department of Biotechnology,
Assam Royal Global University,
Guwahati, Assam.

Sub: Invitation to a Webinar as a Resource Person.

Dr. Borah,

Warm greetings from Sibsagar Girls' College. It has been my immense pleasure to inform you that the Department of Zoology of our college is all set to organise a Webinar on the topic "Microbial Isolation Characterization and Identification" on 30th July 2020 at 11.00 A.M. I therefore on behalf of the host department in particular and college in general, would like to invite you as a Resource Person to the said Webinar.

Your kind consent would help the Webinar making a grand success.

The college fraternity is all agog to receive you in the online platform.

Thanking you,

Yours faithfully,

(Buddhin Misra)
Principal In-charge & Secretary
Sibsagar Girls' College
Sivasagar



Ministry of Education
Ministry of Information and Broadcasting
Ministry of MSME



Ministry of Women and Child Development
Ministry of Commerce & Industry
Ministry of Textiles



CERTIFICATE

Primary Evaluator

This Certificate is awarded to

Dr. Hirak Ranjan Das

for exceptional contribution as a Primary Evaluator in
'Toycathon, 2021'.

Prof. Anil Sahasrabudhe

Chairman
AICTE

Dr. Abhay Jere

Chief Innovation Officer
Ministry of Education Innovation Cell

Dr. Mohit Gambhir

Innovation Director
Ministry of Education Innovation Cell



CERTIFICATE

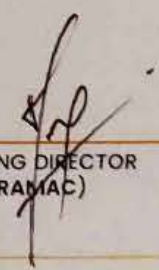
— OF ACHIEVEMENT —

1ST GREEN INNOVATION PITCH

Best Mentor - Green Innovation

Awarded to

DR. HIRAK R. DAS


MANAGING DIRECTOR
(NERAMAC)





This is to certify that
Dr. Hirak Ranjan Das
of

Assam Royal Global University, Assam

has undergone Innovation Ambassador training (Advanced Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.

Prof. Anil D. Sahasrabudhe
Chairman
AICTE

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Date of Issue: 30-07-2021

E-certificate No : 2366



This is to certify that

Dr. Hirak Ranjan Das

of

Assam Royal Global University, Assam

**has successfully completed Innovation Ambassador Training conducted by
MoE's Innovation Cell & AICTE, New Delhi.**

Prof. Anil D. Sahasrabudhe
Chairman
AICTE

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Certificate No : 2366

Validity: For IIC 3.0 Calender Year

Date of Issue: 16-02-2021



CERTIFICATE OF COMPLETION

Awarded To

Dr. Hirak Ranjan Das

For Successfully Finishing the **10-Day Idea to Patent Course**
(**equivalent 6-hours workload**). Course organised by **Turnip Innovations**
and facilitated by **Dr. Rahul Kapoor**

Course Date(s): 12 Feb 2022 to 21 Feb 2022

Certificate Number: 905118

Issue Date: 22 Feb 2022

A handwritten signature in black ink, appearing to read "Rahul Kapoor".

RAHUL KAPOOR

Founder, Turnip Innovations



ASSAM DON BOSCO UNIVERSITY

Airport Road, Azara, Guwahati 781017, ASSAM

Phone +91 361 2842471/72; Fax +91 361 2841949; e-mail contact@dbuniversity.ac.in; www.dbuniversity.ac.in

Date: 15-11-2021

Invitation Letter

To
Dr H R Das
Dept of Mechanical Engineering

Dear Sir/Madam,

We are pleased to inform you that Board for Research, Innovation & Consultancy, Assam Don Bosco University, is organizing a One Day Workshop on Stereolithography (SLA) 3D Printing with a particular focus on Medical & Dental Applications on 20th November 2021 from 11:00 AM to 3:30 PM. As such, we would like to invite you to attend the workshop. Registration for the workshop is free. Certificates will be provided to all the attendees. Lunch will also be provided to all the attendees. If you are interested in attending the workshop, kindly register for it via the Google form available at the following link: Registration Link <http://shorturl.at/djCGV>

Venue: Room no. 414, Assam Don Bosco University, Airport Road, Azara

Date and Time: 20th November 2021 from 11:00 AM to 3:30 PM

The schedule for the workshop is as below:

Time	Topic
11:00 AM to 11:30 AM	Inaugural and keynote address
11:30 AM to 12:00 PM	Introduction to Stereolithography (SLA) 3D Printing industry
12:00 PM to 01:00 PM	Presentation on application of Stereolithography (SLA) 3D Printing in Dental, Medical, Orthopaedics science
01:00 PM to 01:30 PM	Lunch Break
01:30 PM to 02:00 PM	Technical Presentation on Formlabs 3D Printer Capabilities in all Different Industries/Applications
02:00 PM to 03:00 PM	Practical Demonstration of Formlabs Machine
03:00 PM to 03:30 PM	Q&A Session and Conclusion

Thanking you,

Vikramjit Kakati

Dr. Vikramjit Kakati,

Chairperson, Board for Research, Innovation, and Consultancy, Assam Don Bosco University, Azara, Guwahati, Assam

Dr. Vikramjit Kakati
Chairperson, BRIC

Mr. Arup Baruah
Convener & Secretary, BRIC

Dr. Uzzal Sarma
Assistant Secretary, BRIC



WebRadio LOKORATNAGARBHAA

A Social unit of LOKORATNAGARBHAA DR DOLLY DAS FOLK CULTURE FOUNDATION

REGD.-: ROW HOUSE NO. E-1-192, LARICA GREEN HAMLET BONGARA, GUWAHATI, KAMRUP, ASSAM- 781015

CIN-U92410AS2019NPL019508, Email Id-sankar1010@yahoo.com

To,
Dr.Hirak Ranjan Das
Incharge
Institution's Innovation Council
Assam Royal Global University

Subject: Formal procurement order for traditional folk musical instruments prototype 3D Key Ring in complete respect for marketable format /business development

Respected Sir,
Greetings!!!

With reference to our telecommunication and several onsite meetings we are happy to place order for folk traditional 3D print out key ring as per the approved design & colour combination submitted by your side is 100% buy back exclusively produced for our copyright to go for business at pan India basis.

We will procure as per the submitted quotation from your end for 100pc each of three different variety of folk instruments design/model.

- Khul 100pc key ring
- Dhool 100pc key ring
- Nagara 100 pc key ring (one pair in one metal ring intake format)

Kindly send us your lowest quoted rate for above inclusive of all.

Thanks & Regards

Er.SKDas
7503808851/9436271518



國立成功大學醫學院附設醫院
National Cheng Kung University Hospital
生命·愛心·卓越·創新



National Cheng Kung University Hospital

138, Sheng Li Road, Tainan 704 Taiwan
Tel : 886-6-2353535ext3921
E-mail : inter@mail.hosp.ncku.edu.tw

Hsu, I-Lin, M.D. Ph.D.
Director,
International Medical Center, NCKUH

26th August, 2020

To whom it may concern,

The purpose of this letter is to define the responsibilities of National Cheng Kung University Hospital (NCKUH), Taiwan in our agreement to hold the one week Short Term Course (STC) programme on “Recent advances of 3D printing and its Bio-medical Engineering Applications” with North Eastern Hill University (NEHU), Shillong, Meghalaya, India and Royal Global University (RGU), Guwahati, Assam, India on 12nd -16th October, 2020.

Sincerely yours,



Hsu, I-Lin, M.D. Ph.D.
Director of International Medical Center
National Cheng Kung University Hospital (NCKUH)



國立成功大學醫學院附設醫院 National Cheng Kung University Hospital 生命·愛心·卓越·創新



ROYAL GLOBAL UNIVERSITY

GUWAHATI

To,
The Director
NERAMAC, Guwahati

INVOICE

B. No.	Particulars for NERMAC, Guwahati	Unit Price (₹)	Quantity	Total Amount (₹)
RGU/IIC/TT/NE/CUT/001 Dtd: 17.01.2022	Banana Circular Leaf Cutter developed by Dr. Sankar Barman and Dr. Hirak Ranjan Das	1,200.00	25	30,000.00
	Discount			5,000.00
	TOTAL			25,000.00

Rupees Twenty-Five Thousand Only

Bank Details	
Cq. In FAVOUR OF	ROYAL GLOBAL UNIVERSITY
Bank Name:	PUNJAB NATIONAL BANK
Branch:	BHANGAGARH, GUWAHATI, ASSAM
A/C No.	4651002100004685
RTGS/IFSC CODE:	PUNB0465100
PAN No.	AABTG1558J
TAN No.	SHLG00794D

Hirak Ranjan Das
17/01/2020
(Incharge IIC-RGU)

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231021448 A

(19) INDIA

(22) Date of filing of Application :11/04/2022

(43) Publication Date : 22/07/2022

(54) Title of the invention : A PORTABLE DEVICE TO CUT SOFT SHEETS IN CIRCULAR SHAPE WITH ADJUSTABLE RADIUS

(51) International classification :A61B0017322000, A61B0017320000, B26D0007280000, H04N0021440200, H02K0015020000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)DR. DIGANTA MUNSHI

Address of Applicant :NH-37,BETKUCHI,OPPOSITE TIRUPATI TEMPLE,BLOCK-A,GUWAHATI,ASSAM,INDIA. -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sankar Barman

Address of Applicant :sarthenari-barpeta road,barpeta,assam,india,pin-781309 -----

2)Dr. Hirak Ranjan Das

Address of Applicant :K K Handique Sanskrit College Road,Guwahati , Assam, india, pin-781014. -----

3)Mr. Sasanka Boruah

Address of Applicant :20,Zoo Road Tiniali,Guwahati,Assam,India,Pin-781014. -----

4)Mr. Nirakar Nath

Address of Applicant :NH-31,CHANGSARI,ASSAM.INDIA,PIN-781101. -----

--

(57) Abstract :

ABSTRACT The present invention provides a portable device that includes a cutting tool (13) in a tool holder (10) detachably attached to a horizontal hollow square bar (5) associated with a shaft (105) to cut soft sheet materials like a banana leaf in a circular shape. A ball bearing(2) attached to a round wooden plate (1) controls the shaft (105) to work as an axel. The hollow square bar (5) includes two sets of rack and pinions (6, 9, 11) that allow the horizontal and vertical movements to the cutting.tool (.13) along with the tool holder (10) to adjust the radius of the circle and alter the number of sheet materials as per the requirement of the users. The encoded standard scale on the horizontal square hollow bar guides to select the required radius. The base wooden plate (1) guides the cutting tool (13) and holds the sheet materials in place.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231045258 A

(19) INDIA

(22) Date of filing of Application :08/08/2022

(43) Publication Date : 09/09/2022

(54) Title of the invention : MARKER PEN MADE OF BIODEGRADABLE MATERIALS

(51) International classification :A61F0005000000, H04W0008180000, A61M0039100000, H04W0084180000, C12Q0001688600

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. DIGANTA MUNSHI

Address of Applicant :BLOCK-A,NH-37, BETKUCHI, OPPOSITE TIRUPATI TEMPLE, ASSAM, GUWAHATI, INDIA, PIN-781035 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. HIRAK RANJAN DAS

Address of Applicant :K K HANDIQUE SANSKRIT COLLEGE ROAD, GUWAHATI, ASSAM, PIN-781014 -----

2)DR. SANKAR BARMAN

Address of Applicant :SARTHEBARI-BARPETA ROAD, BARPETA, ASSAM, PIN-781309 -----

(57) Abstract :

The present invention provides a white board marker that includes a nib (2) in a nib holder (3) permanently attached to the bamboo barrel (5) containing an ink storage (4) filled with cotton fibers (7) to write on white board or any smooth surfaces which is distinctly visible from a distance. A bottom cap (9) detachably attached with the barrel along with a gasket (8) properly shields the marker and also allow the users to refill the marker once the ink is finished. Fine fibers which run through the ink storage among the cotton fibers (7) help in transporting the ink from the bottom to the tip of the nib during the writing. The cap (1), with a clip, detachable attached with the nib holder safeguards the nib of the marker and also helps in carrying the marker from place to place.

No. of Pages : 18 No. of Claims : 10

NERAMAC LTD HO-2021-22
HEAD OFFICE GUWAHATI
Pincode:781005, India
CIN: U01409AS1982GOI001932
E-Mail : neramac@gmail.com

Payment Voucher

No. : **21**

Dated : **6-Apr-22**

Particulars	Amount
Account : ROYAL GLOBAL UNIVERSITY	25,000.00
Through : SBI NEW GUWAHATI.BRANCH	
On Account of : Being the amount paid to Royal Global University against Banana circular leaf cutter vide details enclosed	
Bank Transaction Details: Cheque 996541 6-Apr-22 25,000.00	
Amount (in words) : INR Twenty Five Thousand Only	
	RS 25,000.00

Receiver's Signature:

Authorised Signatory

Checked by

Verified by

All India Council for Technical Education
(A Statutory body under Ministry of Education, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

MOE's Innovation Cell

Sanction Order

File No. Innovation/IIC Regional Meet/2022-23/17

Date: 19th July 2022

To,

The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg, Vasant Kunj,
New Delhi - 110070

Subject: Release of Grant in Aid to Assam Royal Global University under IIC Regional Meet 2022.

Sir,

This is to convey the sanction of the Council for payment of **Rs 2,80,000/- (INR Two Lakhs Eighty Thousand Only)** as Grant-in-Aid to Assam Royal Global University through RTGS/NEFT towards the expenditure to be incurred in hosting Institution's Innovation Council (IIC) Regional Meet, **Guwahati** to be held on 4th August, 2022.

The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education from MoE's Innovation cell account on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/ Registrar of the Institute/university through RTGS/NEFT.

The instructions/guidelines to be followed by Host Institutions for utilizing the above Grant-in-Aid for hosting the IIC regional meet is as follows:

I. Release of funds (GIA)

- a. The Principal/ Director/Head of the institute are hereby requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AABTG1558J	Punjab National Bank	Bhangagarh	Bhangagarh, G S Road, Guwahati, Assam, PIN Code - 781005	The Assam Royal Global University	Current	46510021000 04500	PUNB04 65100

In case of any omission the same should be reported to AICTE/MIC immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the IIC Regional Meet. 100% of the sanctioned amount will be released as grant in aid to the account of the Host Institute Conducting Regional Meet.
- c. **Sanctioned Amount/Purpose:** The Principal / Director / Registrar shall intimate about the receipt of the grant to AICTE/MIC and grant will be utilized under following heads for conducting Regional Meet.

Sr. No.	Particulars	Per Unit Cost (Rs.)	No of Persons	Amount In Rs.
1	Food and snacks (Including Breakfast, lunch and High Tea)	500.00	400	200000.00
2	Registration Kit and Stationary items	150.00	400	60000.00
4	Miscellaneous			20000.00
Total = (Two Lakhs Eighty Thousand Rupees Only)				2,80,000.00

II. Utilization & Refund of Grant:

- This sanction is issued in exercise of the power delegated to All India Council for Technical Education and MoE's Innovation Cell and other terms & conditions laid down for the purpose.
- The sanctioned amount is debitible under the budget of MoE's Innovation Cell IIC Regional Meet. A separate account should be maintained so that it would not be mixed with other funds.
- AICTE/MIC or its nominee shall have the right to check/verify the items procured under above said heads during the IIC Regional Meet event.
- Host institute needs to maintain the record of all original bills, transaction proof/vouchers and invoices etc. and shall submit the same along with the detailed statement of expenditure under various heads to MIC/AICTE.
- Each host institute will have to submit the Audited Utilization Certificate and statement of expenditure along with supporting vouchers/bills of the expenditure within 2 months from the date of releasing the amount.
- The maximum budget sanctioned from AICTE / MIC will be Rs. 2,80,000/- for the above event and expenditure incurred during this event shall be subject to audit by internal audit team of AICTE.
- The un-utilized and undisbursed amount shall be returned in the form of Demand Draft payable in favour of Innovation Cell Account, New Delhi along with all original documents.
- The amount sanctioned and expenditure incurred under one Head of Account may not be re-appropriated/exceed the budget amount and may not be utilized with other Head of Account.



Dipan Sahu
Assistant Innovation Director

Copy to:

1. Director, Finance Bureau, AICTE - With a request to release the amount
2. HoI/IIC President, Royal Global University
3. File

Certificate of Foreign Inward Remittance / GST Invoice

GST Invoice Number : DPO2029628575976

Issue Date : 22-Oct-2020

CIN NO: L65920MH1994PLC080618

To (POS),

From (POP):

HIRAK RANJAN DAS

HDFC Bank Ltd

C/O PRATAP CHANDRA DAS NEAR SANSKRIT COLLEGE
JALUKBARI REDISON BLU ASSAM GUWAHATI 781014

HDFC BANK LTD 1ST FLOOR BELTOLA DISPUR BASISTHA ROAD
GUWAHATI ASSAM

State/UT name and state/UT code: Assam 18

State/UT name and state/UT code: Assam 18

PhnNo: 917896804278

Bank GSTIN Registration number : 18AAACH2702H1ZZ

Customer GSTIN Registration number :

Customer Pan Number as updated in the account: AMPPD5589A

Dear Customer,

We here by confirm that your Account No :- 0631100006931 has been credited for inward remittance received as per swift details given below:

Inward No	Sender Ref No	Value Date	Credit Date
1610201049903275	2020101500232886	15-Oct-2020	22-Oct-2020
Currency	FCY Amount	Rate	INR Amount
USD	1492.50	72.6300	108400.28
Remitter Details		Remitting Bank	Ordering Institute
1014765615105 TSAI WAN CHEN NO.138 SHENGLI RD. TAINAN CITY TAIWAN		BANK OF AMERICA N.A.	TACBTWTP030
Additional information as per swift message field 70 and 72		RFB/ALLJORT01939//STC PROGRAMME	INS/SWTACBTWTP
Purpose of remittance as per Beneficiary		P1007 - Advertising trade fair service	
Remarks / Additional Information - if any			

In relation to the above remittance we have debited your account :- 0631100006931 with following taxes

Value Of Service	IGST rate%	IGST Amount (A)	CGST rate%	CGST Amount (B)	SGST rate%	SGST Amount (C)	UTGST rate%	UTGST Amount (D)	Cess Rate %	Cess Amount (E)	Grand Total (A+B+C+D+E)
1042.00	0.00	0.00	9.00	93.78	9.00	93.78	0.00	0.00	0.00	0.00	187.56

HSN NO : 9971-FINANCIAL & RELATED SERVICES

PAN No : AAACH2702H

This is a Computer Generated Advice and does not require signature. In case of any discrepancy, please contact us within 7 days.

Regd Office : HDFC Bank Limited , HDFC Bank House , Senapati Bapat Marg , Lower Parel (West) , Mumbai - 400013

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231021448 A

(19) INDIA

(22) Date of filing of Application :11/04/2022

(43) Publication Date : 22/07/2022

(54) Title of the invention : A PORTABLE DEVICE TO CUT SOFT SHEETS IN CIRCULAR SHAPE WITH ADJUSTABLE RADIUS

(51) International classification :A61B0017322000, A61B0017320000, B26D0007280000, H04N0021440200, H02K0015020000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)DR. DIGANTA MUNSHI

Address of Applicant :NH-37,BETKUCHI,OPPOSITE TIRUPATI TEMPLE,BLOCK-A,GUWAHATI,ASSAM,INDIA. -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sankar Barman

Address of Applicant :sarthenari-barpeta road,barpeta,assam,india,pin-781309 -----

2)Dr. Hirak Ranjan Das

Address of Applicant :K K Handique Sanskrit College Road,Guwahati , Assam, india, pin-781014. -----

3)Mr. Sasanka Boruah

Address of Applicant :20,Zoo Road Tiniali,Guwahati,Assam,India,Pin-781014. -----

4)Mr. Nirakar Nath

Address of Applicant :NH-31,CHANGSARI,ASSAM.INDIA,PIN-781101. -----

--

(57) Abstract :

ABSTRACT The present invention provides a portable device that includes a cutting tool (13) in a tool holder (10) detachably attached to a horizontal hollow square bar (5) associated with a shaft (105) to cut soft sheet materials like a banana leaf in a circular shape. A ball bearing(2) attached to a round wooden plate (1) controls the shaft (105) to work as an axel. The hollow square bar (5) includes two sets of rack and pinions (6, 9, 11) that allow the horizontal and vertical movements to the cutting.tool (.13) along with the tool holder (10) to adjust the radius of the circle and alter the number of sheet materials as per the requirement of the users. The encoded standard scale on the horizontal square hollow bar guides to select the required radius. The base wooden plate (1) guides the cutting tool (13) and holds the sheet materials in place.

No. of Pages : 21 No. of Claims : 10



INTELLECTUAL
PROPERTY INDIA

PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 033120408
SL No :



पेटेंट सं. / Patent No. : 398777
आवेदन सं. / Application No. : 202131043596
फाइल करने की तारीख / Date of Filing : 26/09/2021
पेटेंटी / Patentee : 1.Dipanjan Kar 2.Aruna Dev Rroy

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A GERMICIDAL MACHINE TO WASH AND DRY FRUITS/VEGETABLES AND SANITIZE MISCELLANEOUS SMALL ITEMS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2021 के छब्बीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A GERMICIDAL MACHINE TO WASH AND DRY FRUITS/VEGETABLES AND SANITIZE MISCELLANEOUS SMALL ITEMS as disclosed in the above mentioned application for the term of 20 years from the 26th day of September 2021 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 08/06/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2023 के छब्बीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 26th day of September 2023 and on the same day in every year thereafter.

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 22/2022
ISSUE NO. 22/2022

शुक्रवार
FRIDAY

दिनांक: 03/06/2022
DATE: 03/06/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : A SYSTEM FOR EVALUATING THE MEDIATING EFFECT OF CONSUMER AWARENESS ON GREEN MARKETING MIX AND PURCHASE INTENTION AND METHOD THEREOF

(51) International classification :G06Q030020000, H04L0025020000, G06F0001160000, A61B0001000000, G06F0013360000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

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(57) Abstract:
 [034] The present invention discloses a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to: one or more processing unit connected to a communication network, a green marketing certification company side device connected to the communication network, a user device connected to the communication network, and a communication side connected to the communication network. Accompanied Drawing [FIG. 1]

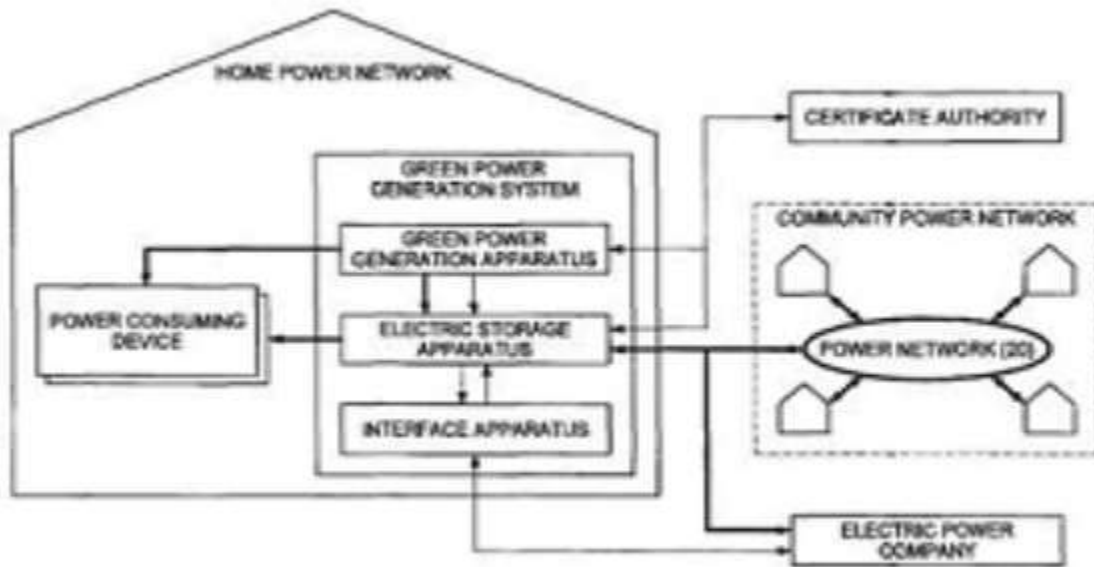


FIG. 1

No. of Pages : 22 No. of Claims : 8

FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
				Application No.	
				Filing date:	
				Amount of Fee paid:	
				CBR No:	
				Signature:	
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
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3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]			

Natural Person (✓)		Other than Natural Person			
		Small Entity ()		Startup ()	Others ()
4. INVENTOR(S) [Please tick (✓) at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes (✓)		No ()	
If "No", furnish the details of the inventor(s)					
Name in Full		Nationality	Country of Residence	Address of the Inventor	
Same as Applicant					
5. TITLE OF THE INVENTION					
"A SYSTEM FOR EVALUATING THE MEDIATING EFFECT OF CONSUMER AWARENESS ON GREEN MARKETING MIX AND PURCHASE INTENTION AND METHOD THEREOF"					
6. AUTHORISED REGISTERED PATENT AGENT(S)		IN/PA No.			
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8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN-CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION					
Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)					
International application number			International filing date		

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION	
Original (first) application No.:	Date of filing of original (first) application
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT	
Main application/patent No.:	Date of filing of main application
12. DECLARATIONS	
<p>(i) Declaration by the inventor(s) (In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period). I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative. (a) Date 20/05/2022</p>	
(b) Name	(c) Signature
1. DR. MANISH JOSHI 2. Mr. Ashish Ashok Uikey 3. Dr. Vikas Choudhary 4. Monika Gupta 5. Dr Aruna Dev Rroy 6. Dr Rashmi Mahajan 7. Dr. Nitesh Behare 8. Dr. Daphne Fernandes 9. Dr. Deep Jyoti Gurung 10. Abhishek Duttagupta 11. DR. S. SARAVANAN 12. Sruthi S	
<p>(ii) Declaration by the applicant(s) in the convention country (In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period) I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative. (a) Date</p>	

~~(b) Signature(s)~~
~~(c) Name(s) of the signatory~~

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- I am/ We are in possession of the above-mentioned invention.
- The ~~provisional/complete~~ specification relating to the invention is filed with this application.
- ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- I am/we are the true & first inventor(s).
- ~~I am/we are the assignee or legal representative of true & first inventor(s).~~
- ~~The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).~~
- ~~I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.~~
- ~~My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.~~
- ~~The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.~~
- ~~The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.~~

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ Provisional specification) #	No. of pages: 18		
No. of Claim(s)	No. of claims: 08 No. of pages: 02		
Abstract	No. of pages: 01		
No. of Drawing(s)	No. of drawings: 02 No. of pages: 01		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

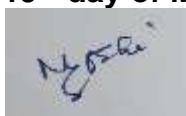
- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventorship on Form 5
- (i) Power of Authority
- (j) **Total fee ₹.....in Cash/ Banker's Cheque /Bank Draft bearing No.....**

Date on Bank.

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 19th day of May, 2022

Signature:



Name: Dr. Manish Joshi et. al.

To,
The Controller of Patents
The Patent Office, at Mumbai

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (/) /cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.

- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule”;

FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

The Patent Rules, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

TITLE OF THE INVENTION

“A SYSTEM FOR EVALUATING THE MEDIATING EFFECT OF CONSUMER
AWARENESS ON GREEN MARKETING MIX AND PURCHASE INTENTION
AND METHOD THEREOF”

We, applicant(s)

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3. Dr. Vikas Choudhary	Indian	Professor and Head, Humanities and Social Sciences, National Institute of Technology, Kurukshetra Pin: 136119
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The following specification particularly describes the nature of the invention and the manner in which it is performed:

FIELD OF THE INVENTION

[001] The present invention relates to the field of the systems and methods useful for the management of green marketing management server, a green trading management method, and a green trading management method. The invention more particularly relates to a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived or pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue of their inclusion in this section.

[004] The global environment has been worsening year by year, and each of countries has been taking its initiatives for environmental measures. Under such circumstances, a power generation techniques and method using renewable energy, such as, but not limited to, solar power, wind power, geothermal power referred as the renewable energy generation method, and a power generation system and method using environmentally friendly resources, such as, but not limited to, biomass power, fuel cell etc. referred as

the environmentally friendly energy generation method are depicting a great deal of attention. Currently, a thermal power generation system and method using fossil fuels, such as, but not limited to, oil, coal, nuclear power generation process and system using atomic power, and hydroelectric power generation method using flowing water are mainly used. it is expected a structure that effectively utilizes a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof.

[005] Accordingly, the present invention overcomes the problem of conventional and complex techniques, and which have the potential of accelerating the various intelligent modules, which is administered from a centralized computing unit, the system and method implemented by a various green management system resident at the central site, which is adapted to provide mediating effect of consumer awareness on green marketing mix and purchase intention, through AI & ML based data processing having, a storage medium & electronic device and method thereof. Therefore, it would be useful and desirable to have a system, method, apparatus and interface to meet the above-mentioned needs.

SUMMARY OF THE PRESENT INVENTION

[006] In view of the foregoing disadvantages inherent in the known types of conventional green marketing management server, a green trading management method, and a green trading management method and systems, are now present in the prior art, the present invention provides a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof, which has all the advantages

of the prior art and none of the disadvantages. The object of the present invention is to avoid the above-mentioned problems and create a unified system for providing the better and efficient evaluation regarding the impact on environment on using the green products and its marketing data processing schemes and techniques for consumer awareness on green marketing mix and purchase intention.

[007] The main aspect of the present invention is to provide a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention, which is further configured with a request processing unit refers to the information stored in the real-time data storage unit, which accepts an application for holding a green power certificate from a user device and connected to have a green power certificate to be held.

[008] Another aspect of the present invention, wherein a particular information is recorded in the real-time database storage unit, and the buying request for the co-sponsored green product using the information on the value points from the user device is processed. Further, the selling request and bid request for the various value points from the user device is providing the operation status information of the green power generation equipment corresponding to the connected green power certificate to the user device.

[009] The proposed system and method is implemented on the processing unit functioning with, but not limited to, the Field Programmable Gate Arrays (FPGAs) and the like, PC, Microcontroller and with other known processors to have computer algorithms and instruction up gradation for supporting many applications domain where the aforesaid problems to solution is required.

5 [010] In this respect, before explaining at least one object of the invention in detail, it is to be understood that the invention is not limited in its application to the details of set of rules and to the arrangements of the various models set forth in the following description or illustrated in the drawings. The invention is capable of other objects and of being practiced and carried out in various ways, according to the need of that industry. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

10 [011] These together with other objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be made to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

15 **BRIEF DESCRIPTION OF THE DRAWINGS**

[012] The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

20 [013] **FIG. 1**, illustrates a conventional schematic diagram of a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof, in accordance with an embodiment of the present invention; and

25 [014] **FIG. 2**, illustrates another block diagram of the system for evaluating the mediating effect of consumer awareness on green marketing mix and

purchase intention and method thereof, in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

5 [015] While the present invention is described herein by way of example using
embodiments and illustrative drawings, those skilled in the art will recognize
that the invention is not limited to the embodiments of drawing or drawings
described and are not intended to represent the scale of the various
components. Further, some components that may form a part of the invention
may not be illustrated in certain figures, for ease of illustration, and such
10 omissions do not limit the embodiments outlined in any way. It should be
understood that the drawings and detailed description thereto are not intended
to limit the invention to the particular form disclosed, but on the contrary, the
invention is to cover all modifications, equivalents, and alternatives falling
within the scope of the present invention as defined by the appended claims.
15 As used throughout this description, the word "may" is used in a permissive
sense (i.e. meaning having the potential to), rather than the mandatory sense,
(i.e. meaning must). Further, the words "a" or "an" mean "at least one" and the
word "plurality" means "one or more" unless otherwise mentioned.
Furthermore, the terminology and phraseology used herein is solely used for
20 descriptive purposes and should not be construed as limiting in scope.
Language such as "including," "comprising," "having," "containing," or
"involving," and variations thereof, is intended to be broad and encompass the
subject matter listed thereafter, equivalents, and additional subject matter not
recited, and is not intended to exclude other additives, components, integers
25 or steps. Likewise, the term "comprising" is considered synonymous with the

terms "including" or "containing" for applicable legal purposes. Any discussion of documents, acts, materials, devices, articles and the like is included in the specification solely for the purpose of providing a context for the present invention. It is not suggested or represented that any or all of these matters
5 form part of the prior art base or were common general knowledge in the field relevant to the present invention.

[016] In this disclosure, whenever a composition or an element or a group of elements is preceded with the transitional phrase "comprising", it is understood that we also contemplate the same composition, element or group
10 of elements with transitional phrases "consisting of", "consisting", "selected from the group of consisting of", "including", or "is" preceding the recitation of the composition, element or group of elements and vice versa.

[017] The present invention is described hereinafter by various embodiments with reference to the accompanying drawings, wherein reference numerals
15 used in the accompanying drawing correspond to the like elements throughout the description. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiment set forth herein. Rather, the embodiment is provided so that this disclosure will be thorough and complete and will fully convey the scope of the invention to those
20 skilled in the art. In the following detailed description, numeric values and ranges are provided for various aspects of the implementations described. These values and ranges are to be treated as examples only and are not intended to limit the scope of the claims. In addition, a number of materials are identified as suitable for various facets of the implementations. These

materials are to be treated as exemplary and are not intended to limit the scope of the invention.

[018] Referring now to the drawings, these are illustrated in FIG. 1 & 2, the present invention discloses a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof. The system is comprised of, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to: one or more processing unit connected to a communication network, a green marketing certification company side device connected to the communication network, a user device connected to the communication network, and a communication side connected to the communication network.

[019] In accordance with another embodiment of the present invention, an e-green procurement market data modelling is provided with a user supporting company side apparatus, and further having a green power certificate marketing apparatus, which is connected to an access control unit, a request processing unit connected to the access control unit, and the request processing unit.

[020] In accordance with another embodiment of the present invention, the real-time database storage unit stores information about the green power certificate and information about the various value points according to the green power certificate, for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention.

[021] In accordance with another embodiment of the present invention, the request processing unit is the real-time database storage unit by referring to the information stored by an artificial intelligence-based user interface for holding the green power certificate from the user side device is accepted for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention.

[022] In accordance with another embodiment of the present invention, the information provided by the system on the held green power certificate is recorded in the data storage unit, and it further processes the user buying request for the sponsored product using the information about the various value points, processes the request for listing the various value points from the user side devices.

[023] In accordance with another embodiment of the present invention, the bid request displays the operation status information of the green power generation equipment corresponding to the green power certificate, which is finally evaluated for the mediating effect of consumer awareness on green marketing mix and purchase intention.

[024] In accordance with another embodiment of the present invention, an E-green procurement market system after evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention, which is provided to a user device and, in response to a certificate issuance request from a use-side device, processes issuance of a green power certificate corresponding to the request.

[025] In accordance with another embodiment of the present invention, the processing unit includes, but not limited to, a processor and a storage medium;

wherein the storage medium stores a computer program adapted to be loaded by the processor and to perform the method steps of any of the above embodiments.

[026] Further, the exemplary computer system for implementing various embodiments consistent with the present disclosure, which may be used for implementing a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof. Computer system may comprise a central processing unit (“CPU” or “processor”). Processor may comprise at least one data processor for executing program components for executing user or system-generated requests. A user may include a person, a person using a device such as such as those included in this disclosure, or such a device itself. The processor may include specialized processing units such as integrated system (bus) controllers, memory management control units, floating point units, graphics processing units, digital signal processing units, etc. The processor may include a microprocessor, such as AMD Athlon, Duron or Opteron, ARM’s application, embedded or secure processors, IBM PowerPC, Intel’s Core, Itanium, Xeon, Celeron or other line of processors, etc. The processor may be implemented using mainframe, distributed processor, multi-core, parallel, grid, or other architectures. Some embodiments may utilize embedded technologies like application-specific integrated circuits (ASICs), digital signal processors (DSPs), Field Programmable Gate Arrays (FPGAs), etc.

[027] Processor may be disposed in communication with one or more input/output (I/O) devices via I/O interfaces. The I/O interfaces may employ communication protocols/methods such as, without limitation, audio, analog,

digital, monoaural, RCA, stereo, IEEE-1394, serial bus, universal serial bus (USB), infrared, PS/2, BNC, coaxial, component, composite, digital visual interface (DVI), high-definition multimedia interface (HDMI), RF antennas, S-Video, VGA, IEEE 802.n /b/g/n/x, Bluetooth, cellular (e.g., code-division multiple access (CDMA), high-speed packet access (HSPA+), global system for mobile communications (GSM), long-term evolution (LTE), WiMax, or the like), etc.

[028] In some embodiments, the processor may be disposed in communication with one or more memory devices (e.g., RAM, ROM, etc.) via a storage interface. The storage interface may connect to memory devices including, without limitation, memory drives, removable disc drives, etc., employing connection protocols such as serial advanced technology attachment (SATA), integrated drive electronics (IDE), IEEE-1394, universal serial bus (USB), fiber channel, small computer systems interface (SCSI), etc.

The memory drives may further include a drum, magnetic disc drive, magneto-optical drive, optical drive, redundant array of independent discs (RAID), solid-state memory devices, solid-state drives, etc. The memory devices may store a collection of program or database components, including, without limitation, an operating system, user interface application, web browser, mail server, mail client, user/application data (e.g., any data variables or data records discussed in this disclosure), etc. The operating system may facilitate resource management and operation of the computer system. Examples of operating systems include, without limitation, Apple Macintosh OS X, Unix, Unix-like system distributions (e.g., Berkeley Software Distribution (BSD), FreeBSD, NetBSD, OpenBSD, etc.), Linux distributions (e.g., Red Hat,

Ubuntu, Kubuntu, etc.), IBM OS/2, Microsoft Windows, Apple iOS, Google Android, Blackberry OS, or the like.

[029] The word “module,” “model” “algorithms” and the like as used herein, refers to logic embodied in hardware or firmware, or to a collection of software instructions, written in a programming language, such as, for example, Java, C, Python or assembly. One or more software instructions in the modules may be embedded in firmware, such as an EPROM. It will be appreciated that modules may comprised connected logic units, such as gates and flip-flops, and may comprise programmable units, such as programmable gate arrays or processors. The modules described herein may be implemented as either software and/or hardware modules and may be stored in any type of computer-readable medium or other computer storage device. Further, in various embodiments, the processor is one of, but not limited to, a general-purpose processor, an application specific integrated circuit (ASIC) and a field-programmable gate array (FPGA) processor. Furthermore, the data repository may be a cloud-based storage or a hard disk drive (HDD), Solid state drive (SSD), flash drive, ROM or any other data storage means.

[030] The above-mentioned invention is provided with the preciseness in its real-world applications to provide a system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention and method thereof. The system can also be used with an online computation server, which can be optionally connected to a cloud network and communicatively connected to a compatible computation server and further, the present invention comprises ongoing real-time support provided over a cloud or any kind of wireless network such as the Internet, wherein exchange

a green power certificate and certificate issuance process in response to the certificate issuance request having a step of subtracting the value point corresponding to the consumer awareness on green marketing mix and purchase intention relating to the certificate issuance request from the value point data.

[031] It is to be understood that the above description is intended to be illustrative, and not restrictive. For example, the above-discussed embodiments may be used in combination with each other. Many other embodiments will be apparent to those of skill in the art upon reviewing the above description.

[032] The benefits and advantages which may be provided by the present invention have been described above with regard to specific embodiments. These benefits and advantages, and any elements or limitations that may cause them to occur or to become more pronounced are not to be construed as critical, required, or essential features of any or all of the embodiments.

[033] While the present invention has been described with reference to particular embodiments, it should be understood that the embodiments are illustrative and that the scope of the invention is not limited to these embodiments. Many variations, modifications, additions and improvements to the embodiments described above are possible. It is contemplated that these variations, modifications, additions and improvements fall within the scope of the invention.

We Claim:

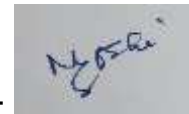
1. A system for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention, comprising:
one or more processing unit connected to a communication network, a green
5 marketing certification company side device connected to the communication network, a user device connected to the communication network, and a communication side connected to the communication network.
2. The system as claimed in claim 1, wherein an e-green procurement market data modelling is provided with a user supporting company side apparatus, and
10 further having a green power certificate marketing apparatus, which is connected to an access control unit, a request processing unit connected to the access control unit, and the request processing unit.
3. The system as claimed in claim 1, wherein the real-time database storage unit stores information about the green power certificate and information about the
15 various value points according to the green power certificate, for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention.
4. The system as claimed in claim 1, wherein the request processing unit is the real-time database storage unit by referring to the information stored by an
20 artificial intelligence-based user interface for holding the green power certificate from the user side device is accepted for evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention.
5. The system as claimed in claim 1, wherein the information provided by the system on the held green power certificate is recorded in the data storage unit,
25 and it further processes the user buying request for the sponsored product

using the information about the various value points, processes the request for listing the various value points from the user side devices.

- 5
6. The system as claimed in claim 1, wherein the bid request displays the operation status information of the green power generation equipment corresponding to the green power certificate, which is finally evaluated for the mediating effect of consumer awareness on green marketing mix and purchase intention.
- 10
7. The system as claimed in claim 1, wherein an E-green procurement market system after evaluating the mediating effect of consumer awareness on green marketing mix and purchase intention, which is provided to a user device and, in response to a certificate issuance request from a use-side device, processes issuance of a green power certificate corresponding to the request.
- 15
8. The system as claimed in claim 1, wherein exchange a green power certificate and certificate issuance process in response to the certificate issuance request having a step of subtracting the value point corresponding to the consumer awareness on green marketing mix and purchase intention relating to the certificate issuance request from the value point data.

Dated this 20th day of May 2022

Signature:



Applicant(s)

Dr. Manish Joshi et. al.

20

ABSTRACT

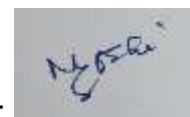
A SYSTEM FOR EVALUATING THE MEDIATING EFFECT OF CONSUMER AWARENESS ON GREEN MARKETING MIX AND PURCHASE INTENTION AND METHOD THEREOF

5 **[034]** The present invention discloses a system for evaluating the mediating
effect of consumer awareness on green marketing mix and purchase intention
and method thereof. The system includes, but not limited to, a memory which
stores instructions; one or more processors attached to the memory wherein the
one or more processors, when executing the instructions which are stored, are
10 configured to: one or more processing unit connected to a communication
network, a green marketing certification company side device connected to the
communication network, a user device connected to the communication network,
and a communication side connected to the communication network.

Accompanied Drawing **[FIG. 1]**

15 **Dated this 20th day of May 2022**

Signature:



Applicant(s)

Dr. Manish Joshi et. al.

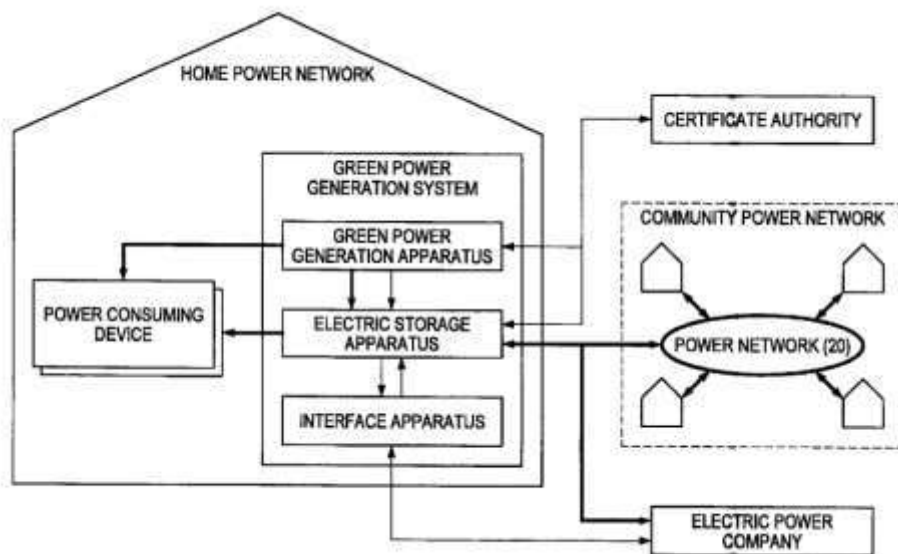


FIG. 1

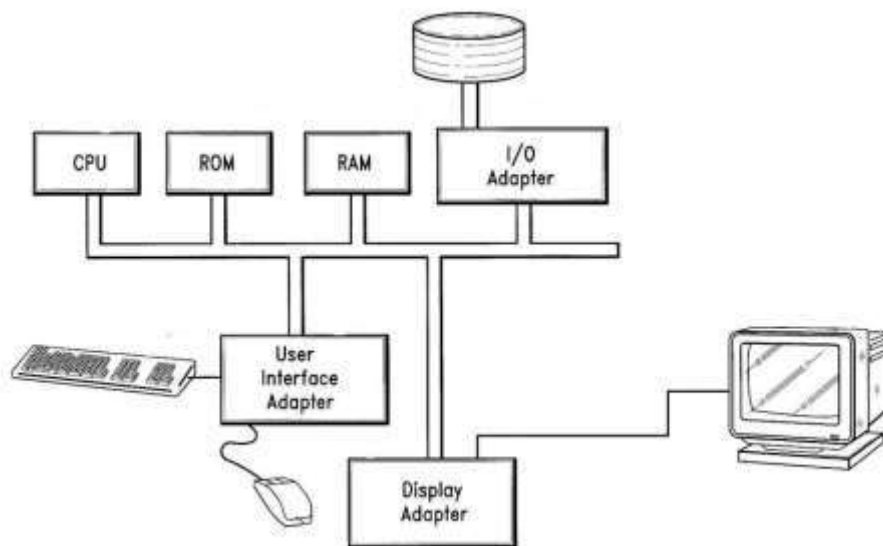


FIG. 2

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Signature: 

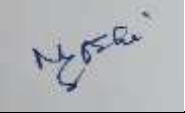
FORM 3
 THE PATENTS ACT,
 1970 (39 of 1970)
 and
 THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER
SECTION 8
 (See section 8; Rule 12)

1. Name of the applicant(s).	I/We Dr. Manish Joshi et. al., all are citizen of India, Address of one of the Applicant: Associate Professor, Marketing, Shri Vaishnav School of Management, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore – Ujjain Road, Indore,453111
------------------------------	---

2. Name, address and nationality of the joint applicant.	(i) that I/We have not made any application for the same/substantially the same invention outside India Or (ii) that I/We who have made this application No... dated alone/jointly with made for the same/ substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:
--	---

Name of the Country	Date of Application	Application No.	Status of the Application	Date of Publication	Date of grant
-	-	-	-	-	-

3. Name and address of the assignee	(iii) that the rights in the application(s) has/have been assigned to none that I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from the date of filing of such application. Dated this 20th day of April, 2022
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4. To be signed by the applicant or his authorized registered patent agent.	Signature: 
5. Name of the natural person who has signed.	Dr. Manish Joshi et. al. Name of the Applicant(s)
	To The Controller of Patents, The Patent Office, at Mumbai
Note.- Strike out whichever is not applicable;	

FORM- 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
DECLARATION AS TO INVENTORSHIP
[See Section 10(6) and Rule 13(6)]

1. NAME OF THE APPLICANT(S)

I/We Dr. Manish Joshi et. al., all are citizen of India, Address of one of the Applicant: Associate Professor, Marketing, Shri Vaishnav School of Management, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore – Ujjain Road, Indore,453111

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/ our application numbered _____ dated 20/04/2022 is/are

2. INVENTOR(S)

(a) NAME	(b) NATIONALITY	(c) ADDRESS
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5. Dr Aruna Dev Rroy	Indian	Assistant Professor, Royal School of Commerce, Royal Global University opp purva Tirupati Balaji Temple Betkuchi guwahati 781035
6. Dr Rashmi Mahajan		Professor, Marketing & IB, Balaji Institute of International Business,

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12. Sruthi S	Indian	Assistant Professor, Department of Commerce, Gregorian College of Advanced Studies, Trivandrum
<p>3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:-</p> <p style="text-align: center;">N.A.</p> <p>We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).</p>		
<p>Dated this 20th day of April, 2022</p> <p style="text-align: right;">Dr. Manish Joshi et. al. Applicant(s)</p> <p>To, The Controller of Patents The Patent Office, Mumbai</p>		

FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **Dr. Manish Joshi,Mr. Ashish Ashok Uikey,Dr. Vikas Choudhary,Monika Gupta,Dr Aruna Dev Rroy,Dr Rashmi Mahajan,Dr. Nitesh Behare,Dr. Daphne Fernandes,Dr. Deep Jyoti Gurung,Abhishek Duttagupta,DR. S. SARAVANAN,Sruthi S** hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/32501/2022-MUM

Dated **20/05/2022 00:00:00** under section 11A(2) of the Act.

Dated this(Final Payment Date):-----

Signature

Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Mumbai

This form is electronically generated.

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 102 736

Bezeichnung:

Ein wärmeisoliertes, energiesparendes Kochgerät

IPC:

A47J 36/34

Inhaber/Inhaberin:

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Tag der Anmeldung:

18.05.2022

Tag der Eintragung:

21.06.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 21.06.2022



(54) Title of the invention : SYSTEM FOR ASSESSING CONSUMER PERCEPTION TOWARDS PRIVATE LABEL BRAND, AND METHOD THEREFOR

<p>(51) International classification :G06Q0030020000, G06N0020000000, G06Q0030060000, H04W0004020000, G06N0003020000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)ARUNA DEV RROY Address of Applicant :Royal School of Commerce, The Assam Royal Global University, Opposite Tirupati Balaji Temple, NH-37, Guwahati-781035, India Guwahati ----- 2)PAPARI NAYAK 3)RAJAT BHATTACHARJEE 4)MAHUYA DEB 5)TAHERA HOQUE MOZUMDAR 6)SANTUJIT CHANDA 7)RITUPARNA BARUAH Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)ARUNA DEV RROY Address of Applicant :Royal School of Commerce, The Assam Royal Global University, Opposite Tirupati Balaji Temple, NH-37, Guwahati-781035, India Guwahati ----- 2)PAPARI NAYAK Address of Applicant :Dept of Business Management, Golaghat Commerce College, Jyoti Nagar, Assam, Golaghat-785621, India Golaghat ----- 3)RAJAT BHATTACHARJEE Address of Applicant :Royal School of Commerce, The Assam Royal Global University, Guwahati-781035, India Guwahati ----- 4)MAHUYA DEB Address of Applicant :Royal School of Behavioral and Allied Sciences, The Assam Royal Global University, Guwahati-781035, India Guwahati ----- 5)TAHERA HOQUE MOZUMDAR Address of Applicant :Royal School of Behavioral and Allied Sciences, The Assam Royal Global University, Guwahati-781035, India Guwahati ----- 6)SANTUJIT CHANDA Address of Applicant :Royal School of Commerce, The Assam Royal Global University, Guwahati-781035, India Guwahati ----- 7)RITUPARNA BARUAH Address of Applicant :Royal School of Commerce, The Assam Royal Global University, Guwahati-781035, India Guwahati -----</p>
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(57) Abstract :
Disclosed herein is a method and system for assessing consumers' perception towards a private label brand (PLB) through internet of things (IoT) and machine learning based integrated mechanism. The system comprises a server (400) communicatively coupled to a feedback interactive device (100), a camera (200), and an expert interactive device (300) over a wireless network. The consumers are prompted through the feedback interactive device (100) to provide socio-economic and product/service-related information to which they are psychologically attached. The camera (200) captures visual data of consumer activity while enquiring quality certifications of product/service as offered under the PLB. The expert interactive device (300) provides value for money parameter associated with the same product/service as offered under competitors' brand. The server (400) has embedded therein a machine learning trained model (402) configured to: determine correlations among all the information/data/parameter; compute a purchase intention score of the consumer towards the PLB using the determined correlations; and predict one or more strategy alternatives based on the computed purchase intention score to enhance impression of the PLB in its market. Fig. 1

No. of Pages : 20 No. of Claims : 6

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(19) INDIA

(22) Date of filing of Application :08/08/2022

(43) Publication Date : 09/09/2022

(54) Title of the invention : MARKER PEN MADE OF BIODEGRADABLE MATERIALS

(51) International classification :A61F0005000000, H04W0008180000, A61M0039100000, H04W0084180000, C12Q0001688600

(86) International Application No :NA
Filing Date :NA

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(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :SARTHEBARI-BARPETA ROAD, BARPETA, ASSAM, PIN-781309 -----

(57) Abstract :

The present invention provides a white board marker that includes a nib (2) in a nib holder (3) permanently attached to the bamboo barrel (5) containing an ink storage (4) filled with cotton fibers (7) to write on white board or any smooth surfaces which is distinctly visible from a distance. A bottom cap (9) detachably attached with the barrel along with a gasket (8) properly shields the marker and also allow the users to refill the marker once the ink is finished. Fine fibers which run through the ink storage among the cotton fibers (7) help in transporting the ink from the bottom to the tip of the nib during the writing. The cap (1), with a clip, detachable attached with the nib holder safeguards the nib of the marker and also helps in carrying the marker from place to place.

No. of Pages : 18 No. of Claims : 10

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शासकीय जर्नल

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निर्गमन सं. 11/2022
ISSUE NO. 11/2022

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FRIDAY

दिनांक: 18/03/2022
DATE: 18/03/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : A METHOD FOR BUSINESS GROWTH THROUGH INNOVATIVE PRODUCT DESIGNS AND TECHNOLOGY SOLUTIONS

<p>(51) International classification :G06Q0010060000, G06Q0030020000, G06Q0090000000, A61F0013491000, G06Q0050260000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Kirti Jainani Address of Applicant :Associate Professor, Marketing & General Management, Faculty of Management Studies, Indian Institute of Rural Management (FMS-IRM), Jaipur, Rajasthan, Pin Code: 302020 -----</p> <p>2)Prof. (Dr). Anoop Pandey</p> <p>3)Dr Aruna Dev Rroy</p> <p>4)Prof (Dr.) Rashmi Gujrati</p> <p>5)Dr.Papari Nayak</p> <p>6)Dr. Nimit Gupta</p> <p>7)Dr. Purvi Pujari</p> <p>8)Dr. Babita Yadav</p> <p>9)Prof. Ramesh Chandra Panda</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Kirti Jainani Address of Applicant :Associate Professor, Marketing & General Management, Faculty of Management Studies, Indian Institute of Rural Management (FMS-IRM), Jaipur, Rajasthan, Pin Code: 302020 -----</p> <p>2)Prof. (Dr). Anoop Pandey Address of Applicant :Professor, Department of Commerce, Hemvati Nandan Bahuguna Garhwal University, BGR Campus, Pauri, Uttarakhand, Pin Code: 246001 -----</p> <p>3)Dr Aruna Dev Rroy Address of Applicant :House No: 59 Lane No: 4, Anandanagar Pandu Port Road, Kamrup Metro Assam, Guwahati, Pin Code: 781012 -----</p> <p>4)Prof (Dr.) Rashmi Gujrati Address of Applicant :Dean (International Affairs), CT University Ludhiana, Ferozepur Road, Punjab, Pin-Code: 142021 -----</p> <p>5)Dr.Papari Nayak Address of Applicant :Assistant Professor, Department Of Management, Golaghat Commerce College, Jyoti Nagar, Golaghat, Assam, Pin Code: 785621 -----</p> <p>6)Dr. Nimit Gupta Address of Applicant :Professor, Department of Management, The North Cap University, Gurugram, Pin Code: 122017 -----</p> <p>7)Dr. Purvi Pujari Address of Applicant :Associate Professor, Department of Management, Bharati Vidyapeeth's Institute of Management Studies and Research, Mumbai, Sec-8, C.B.D. Belapur, Maharashtra, Pin Code: 400614 -----</p> <p>8)Dr. Babita Yadav Address of Applicant :Assistant Professor, Department of Business Management, Doctor Hari Singh Gour Central University, Sagar, Madhya Pradesh, Pin Code: 470003 -----</p> <p>9)Prof. Ramesh Chandra Panda Address of Applicant :Chief Scientist, We Grow Private Limited, Bhubaneswar, Odisha, Pin Code: 751001 -----</p>
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(57) Abstract :

The present invention relates to a method (100) for business growth through innovative product designs and technology solutions. The method (100) comprising the step of creating innovative product designs (101) to help the people to avail benefits in exchange for money, to increase the value of goods/products, to improve the physical appearance; generates standard technology solutions (111) use advance technology using digital marketing, AI and ML to enhance the quality and performance of any business; follow government policies (122); select suitable plant location and capacity planning (123) to develop an effective business strategy of the plant and location plays an important role; consider cultural and social factors (124) to provide deep analysis on cultural diversities and social factors before launching any product or service in the market. The method (100) for business growth through innovative product designs and technology solutions to improve business intelligence.

No. of Pages : 14 No. of Claims : 5