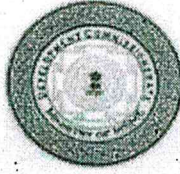


विकास आयुक्त का कार्यालय

(सूक्ष्म, लघु एवं मध्यम उद्यम)
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
(भारत सरकार)

निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड,
नई दिल्ली-110 108



OFFICE OF THE DEVELOPMENT COMMISSIONER
(MICRO, SMALL & MEDIUM ENTERPRISES)
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA

Nirman Bhawan, 7th Floor, Maulana Azad Road,
New Delhi-110 108

Ph. EPAX-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

By e-mail

No. 17(2)/ MSME Innovative/PMAC/2021-22

Date: 27/06/2023

Subject: 4th PMAC meeting of MSME Innovative Scheme a component under MSME Champions Scheme scheduled held on 26.06.2023 at 11.00 AM - reg.

I am directed to forward the Minutes of 4th Project Monitoring and Advisory Committee (PMAC) Meeting of "MSME Innovative Scheme" a component under MSME Champions Scheme held under the Chairmanship of AS&DC (MSME) for information and necessary action at your end.

This issues with the approval of AS&DC (MSME).

(V. Ramakrishnan)
Dy. Director

Encl.: As above.

To

- 1) Additional Secretary, Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, Room 258-A, Udyog Bhawan, New Delhi - 110011, Tele: 23062983, E-mail: as-dpiit@gov.in - Represented by Ms. Niharika Khatana
- 2) Economic Advisor (IFW), Ministry of MSME, Udyog Bhawan, Ph: 011- 23063433, Email: saurabh.sameera.gov.in
- 3) DDG (A.B.), O/o DC(MSME), Nirman Bhawan, New Delhi, Email: ddg-dc@dcmsme.gov.in
- 4) Shri. Vivek Ashish, Director, Finance, M/o MSME, Udyog Bhawan, New Delhi - 110011
- 5) Shri. Praveen Roy, Sr. Scientist, Department of Science & Technology, Technology Bhavan, Mehrauli Road, New Delhi-I 1 0 016 Ph: 011 - 26510068, Email: dstsec@nic.in
- 6) Dr. Chintan Vaishnav, Mission Director, ATAL Innovation Mission (AIM), NITI Aayog, New Delhi. E-mail: chintan.vaishnav@gov.in
- 7) Shri Manoj Kumar Gupta, Sr. Technical Director, NIC, O/o DC(MSME), Nirman Bhawan, New Delhi 110011 Ph. 011-23061158 Email: mkg@nic.in
- 8) Dr. TV Prabhakar, Head, MSME Centre of Excellence IISC, CV Raman Rd, Bengaluru, 560012, Ph: 080-22932967, Email: msmecoe.blr@ail.co office.msmecoe@iisc.ac.in
- 9) Dr. A. Bandyopadhyay, IIT, Kanpur: e-mail: director@iitk.ac.in,
- 10) Members from Domain Expert Selection Committee (DESC).
 - i. Dr. D satyanath, NIN, dsathanath@gmail.com - Digital Healthcare & Potable Water Solutions
 - ii. Dr. Anala M R, Professor, analamr@rvce.edu.in - AVGC & Cloud Computing
 - iii. Shri. Alok Vijay Bhatnagar, bhatnagaralokvijay@gmail.com - Safety in Transportation & Industry
 - iv. Shri Anil Kumar Pandey, Director & Head, anilpandey15@gmail.com -SUP

Copy To:

- 1) PPS to AS&DC (MSME), Email: dcmsme@gov.in
- 2) PPS to JS (AFI), Ministry of MSME, Udyog Bhawan, New Delhi.
- 3) Director (T&P), Ministry of MSME, Udyog Bhawan, New Delhi. E-mail: vinamra.mishra@gov.in


DEAN

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RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

List of Approved HI

Sr No.	HI reference No.	Name Of the Host Institute	Decision
1	HIBIUP000809	GLA University, Uttar Pradesh, Mathura	Approved in principle
2	HIBIMH002659	Shree Dnyanraj Mauli Shikshan Seva Mandals, Achievers College of Commerce & Management Night College, Maharashtra, Thane	Approved in principle
3	HIBIRJ000306	Jayoti Vidyapeeth Womens University, Jaipur, Rajasthan	Approved in principle
4	HIBITN001030	New Prince Shri Bhavani College of Engineering and Technology, TamilNadu, Kanchipuram	Approved in principle
5	HIBIGJ001085	Gian Gujarat Grassroots Innovations Augmentation Network, Gujarat, Ahmadabad	Approved in principle
6	HIBIUP002021	Banaras Hindu University, UttarPradesh, Varanasi,	Approved in principle
7	HIBIMH002037	Shri Mathuradas Mohota College of Science, Maharashtra, Nagpur	Approved in principle
8	HIBITN002230	Narayanaguru College Of Engineering, Tamil Nadu, Kanniyakumari	Approved in principle
9	HIBITN002462	Sri Krishna College of Engineering And Technology, Tamil Nadu, Coimbatore	Approved in principle
10	HIBIHP002518	Career Point University, Himachal Pradesh, Hamirpur	Approved in principle
11	HIBIHR002621	Regional Centre for Biotechnology Haryana, Faridabad	Approved in principle
12	HIBIHP002723	Sri Sai University, Kangra Universities, Himachal Pradesh	Approved in principle
13	HIBITS002949	Woxsen University, Telangana, Sangareddy	Approved in principle
14	HIBIRJ002990	Suresh Gyan Vihar University, Rajasthan, Jaipur	Approved in principle

MoM – FOURTH PMAC MEETING OF MSME INNOVATIVE SCHEME --26.06.2023

43


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15	HIBIMP003126	IES College Of Technology, MadhyaPradesh, Bhopal	Approved in principle
16	HIBIMP003163	NMIMS Indore Campus, MadhyaPradesh, Indore	Approved in principle
17	HIBIMP003167	St. Aloysius College, Jabalpur, M.P., MadhyaPradesh, Jabalpur	Approved in principle
18	HIBITN003191	University College of Engineering Villupuram, TamilNadu, Villupuram,	Approved in principle
19	HIBIGJ003205	Anant National University, Gujarat, Ahmadabad	Approved in principle
20	HIBIDL003210	New Delhi Institute of Management, Delhi, New Delhi	Approved in principle
21	HIBITN003221	JP College Of Engineering, TamilNadu, Tirunelveli	Approved in principle
22	HIBIDL003244	Bhaskaracharya College Of Applied Sciences, Delhi, South West	Approved in principle
23	HIBICG003278	Shri Rawatpura Sarkar University Raipur, Chhattisgarh, Raipur	Approved in principle
24	HIBITN003288	Jai Shriram Engineering College, TamilNadu, Tirupur,	Approved in principle
25	HIBITN003318	PSN College Of Engineering and Technology, TamilNadu, Tirunelveli	Approved in principle
26	HIBIRJ003322	Career Point University, Rajasthan, Kota	Approved in principle
27	HIBIAP003328	Vignans Lara Institute of Technology & Science, AndhraPradesh, Guntur	Approved in principle
28	HIBIHR003337	National Institute of Food Technology Entrepreneurship And Management, Haryana, Sonipat	Approved in principle

29	HIBFTN003341	St. Mother Theresa Engineering College, TamilNadu, Tuticorin,	Approved in principle
30	HIBIHP003344	Central Institute of Petrochemicals Engineering & Technology, Baddi, Himachal Pradesh, Solan	Approved in principle
31	HIBITN003350	Anna University Regional Campus Coimbatore, TamilNadu, Coimbatore	Approved in principle
32	HIBIMH003368	Marathwada Mitra Mandals College of Engineering, Maharashtra, Pune	Approved in principle
33	HIBIJK003371	Indian Institute of Technology Jammu, Jammu and Kashmir, Jammu	Approved in principle
34	HIBIWB003380	Adamas University, West Bengal, 24 Paraganas North	Approved in principle
35	HIBITN003386	M.I.E.T. Engineering College, TamilNadu, Tiruchirapalli	Approved in principle
36	HIBIWB003390	Kingston Educational Institute, West Bengal, 24 Paraganas North	Approved in principle
37	HIBIKL003406	Lead College of Management, Kerala, Palakkad,	Approved in principle
38	HIBITN003407	Jaya Engineering College, TamilNadu, Thiruvallur	Approved in principle
39	HIBITS003421	Maturi Venkata Subba Rao Engineering College, Telangana, Ranga Reddy	Approved in principle
40	HIBIOD003447	Government Polytechnic, Jajpur, Ragadi, Odisha, Jajapur	Approved in principle
41	HIBITN003460	Narasus Sarathy Institute of Technology, TamilNadu, Salem	Approved in principle
42	HIBIWB003468	Techno India University, West Bengal, West Bengal, 24 Paraganas North	Approved in principle

MoM – FOURTH PMAC MEETING OF MSME INNOVATIVE SCHEME --26.06.2023

45

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43	HIBIAP003506	VIT-AP University, Andhra Pradesh, Guntur	Approved in principle
44	HIBIRJ003520	Rajasthan Institute of Engineering & Technology Jaipur, Rajasthan, Jaipur	Approved in principle
45	HIBITN003527	Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu, Virudhunagar,	Approved in principle
46	HIBIRJ003566	Birla Institute of Technology & Science, Pilani, Rajasthan, Jhunjhunu	Approved in principle
47	HIBITN003570	Jansons Institute of Technology, Tamil Nadu, Coimbatore	Approved in principle
48	HIBITS003575	Sana Engineering College, Telangana, Suryapet	Approved in principle
49	HIBIBR003606	Birla Institute of Technology, Patna, Bihar, Patna	Approved in principle
50	HIBITN003628	NPR College Of Engineering and Technology, Tamil Nadu, Dindigul	Approved in principle
51	HIBITS003644	Muffakham Jah College Of Engineering & Technology, Telangana, Hyderabad	Approved in principle
52	HIBIOD003666	Government ITI Berhampur, Odisha, Ganjam	Approved in principle
53	HIBIRJ003668	University Of Rajasthan, Rajasthan, Jaipur	Approved in principle
54	HIBIKL003674	Al Ameen College, Edathala, Aluva, Kerala, Ernakulam,	Approved in principle
55	HIBIKR003731	Coorg Institute of Technology, Karnataka, Kodagu	Approved in principle
56	HIBIWB003823	Maulana Abul Kalam Azad University of Technology, West Bengal, West Bengal, Nadia	Approved in principle
57	HIBITN003840	SSM Institute of Engineering and Technology, Dindigul, Tamil Nadu, Dindigul,	Approved in principle


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58	HIBITN003841	Sri Sai Ram Institute of Technology, TamilNadu, Kanchipuram,	Approved in principle
59	HIBITN003853	Tagore Engineering College, TamilNadu, Chengalpattu	Approved in principle
60	HIBIOD003864	Raajdhani Engineering College, Odisha, Khordha	Approved in principle
61	HIBITS003895	St. Pauls College of Pharmacy, Telangana, Ranga Reddy	Approved in principle
62	HIBITN003903	Anna University Chennai, Universities, Tamil Nadu	Approved in principle
63	HIBIAP003925	Velagapudi Ramakrishna Siddhartha Engineering College, Andhra Pradesh, Krishna,	Approved in principle
64	HIBIUP003926	Pranveer Singh Institute of Technology, Uttar Pradesh, Kanpur Nagar,	Approved in principle
65	HIBITN003970	Alagappa University, Tamil Nadu, Sivaganga	Approved in principle
66	HIBIUK003974	Dev Bhoomi Uttarakhand University, Uttarakhand, Dehradun	Approved in principle
67	HIBIRJ003984	Jaipur National University, Rajasthan, Jaipur	Approved in principle
68	HIBICG004031	Chhattisgarh Swami Vivekanand Technical University, Bhilai, Chhattisgarh, Durg	Approved in principle
69	HIBITS004039	B V. Raju Institute Of Technology Medak, Telangana, Medak	Approved in principle
70	HIBITN004049	Vivekanandha College Of Technology for Women, TamilNadu, Namakkal	Approved in principle
71	HIBIAR004090	North Eastern Regional Institute of Science and Technology, Deemed-To-Be- University, Under The Ministry Of Education, Govt. Of India Nirjuli- Itanagar, Arunachal Pradesh, India, Arunachal Pradesh, Papum Pare	Approved in principle

MoM – FOURTH PMAC MEETING OF MSME INNOVATIVE SCHEME --26.06.2023

47

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72	HIBITN004141	Meenakshi Academy of Higher Education and Research, TamilNadu, Chennai	Approved in principle
73	HIBIDL004156	National Research Development Corporation, Delhi, South	Approved in principle
74	HIBIJH004179	National Institute of Advance Manufacturing Technology, Jharkhand, Ranchi	Approved in principle
75	HIBITN004191	Sri Ranganathar Institute of Engineering and Technology, TamilNadu, Coimbatore	Approved in principle
76	HIBITN004217	Thiagarajar College Of Engineering, TamilNadu, Madurai	Approved in principle
77	HIBIOD004220	Iit Bhubaneswar Research and Entrepreneurship Park, Odisha, Khordha	Approved in principle
78	HIBIKR004253	Jain Institute of Technology Davangere, Karnataka, Davangere	Approved in principle
79	HIBITN004270	Tagore Medical College and Hospital, TamilNadu, Chennai	Approved in principle
80	HIBIRJ004289	Geetanjali Institute of Technical Studies Udaipur Rajasthan, Rajasthan, Udaipur	Approved in principle
81	HIBIRJ004309	Poornima University, Rajasthan, Jaipur	Approved in principle
82	HIBITN004317	Chendhuran College Of Engineering and Technology, TamilNadu, Pudukkottai	Approved in principle
83	HIBICG004480	Guru Ghasidas Vishwavidyalaya, Chhattisgarh, Bilaspur	Approved in principle
84	HIBITN002977	Velammal Engineering College, TamilNadu, Chennai	Approved in principle

MoM – FOURTH PMAC MEETING OF MSME INNOVATIVE SCHEME --26.06.2023

48

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85	HIBIPB004295	Central University Of Punjab, Punjab, Bathinda	Approved in principle
86	HIBIJK004483	Indian Institute Of Management Jammu, Jammu And Kashmir, Jammu,	Approved in principle
87	HIBITN004581	Kingston Engineering College, TamilNadu, Vellore	Approved in principle
88	HIBIHR000402	Ambala College Of Engineering and Applied Research, Ambala, Haryana	Approved in principle
89	HIBIHR004441	KR Mangalam University, Gurugram, Haryana	Approved in principle
90	HIBIGJ002685	Government Polytechnic Ambawadi, Ahmedabad, Ahmadabad, Gujarat	Approved in principle
91	HIBIGJ003969	Parul University	Approved in principle
92	HIBIUK004151	Shirdi Sai Education Society, Uttarakhand, Dehradun	Not Approved
93	HIBIHR003343	DPG Degree College, Haryana	Not Approved

MoM – FOURTH PMAC MEETING OF MSME INNOVATIVE SCHEME --26.06.2023

49



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TAGORE MEDICAL COLLEGE & HOSPITAL
RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.

Reference No. :- HIBITN004270

1. Details of Institution/Agency.

Institute Name	Tagore Medical College and Hospital	Name of the Dean / Principal / Head of the Institute	Dr. J. Muthukumaran
Address of Institution	Tagore Medical College and Hospital, via Vandalur-Kelambakkam road, Rathinamangalam, Chennai - 600127		
State Name	TAMIL NADU	District Name	CHENNAI
Pin code	600127	Mobile No. +91	9840520950
Tel No. with STD code	04430101111	Email Id	cr[at]tagoremch[dot]com
2. Category of the Host Institute	Other Professional colleges/Institutes		

3. About the Institution

Date of establishment	21/04/2010	Number of teaching staff	248
Total no. of student	850	Number of academic courses offered	16

Details of registration/affiliation/accreditation

i) University affiliation	View/Download	ii) AICTE approval	View/Download
iii) NABL/ other accreditation	View/Download	iv) Any other	View/Download
Last two years audited annual accounts with auditor's report	View/Download	Number of students enrolled during last two years	377

4. Details of existing/proposed Business Incubator:

Already having Business Incubator Center	No		
Name of person in charge of BI	DR. I. KANNAN	Designation of person in charge of BI	COORDINATOR
Email ID	dr[dot]ikannan[at]tagoremch[dot]com	Mobile No. +91	9840520950


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Area of BI in Sq. ft.(Total area)	5621	Area of BI in Sq. ft.(buildup area)	5029
Details of ongoing innovative activities being undertaking by the Institution.	<p>Two Proposals for POC are submitted from Tagore Medical College and Hospital for the MSME Idea hackathon 2.0, Brief details of the project include: 1. Principal Investigator- R Shri Ram Sakisnu, MBBS -1ST Year, Tagore Medical College and Hospital The title of the proposed idea/innovation is" Production of electricity from vibrations like sound, etc.," Outline of the innovative idea This method could be a potential supplement for the production of electricity and meet the energy requirements of future generations. This method utilizes the vibrations present in the environment as a source of mechanical stress for the piezoelectric devices. The piezoelectric materials produce electricity on application of any mechanical stress. This method is working on the principle of piezoelectric effect. On application of mechanical stress i.e., vibrations onto the piezoelectric devices the piezoelectric crystal present in the piezoelectric devices gets vibrated and piezoelectric effect occurs. Thus energy is generated. The generated energy is stored in the storage unit and utilized for further energy need. 2. Principal Investigator- Manasa. P- MBBS -1ST Year, Tagore Medical College and Hospital Title of proposed idea/innovation – "Pocket-friendly and highly sensitive tremor-dampener" Outline of the innovative idea This project mainly focuses on providing a pocket-friendly, lightweight, easy-to-carry, economical, and highly-sensitive device to reduce the intensity and visibility of tremors. Essential tremors usually prevail in the frequency of 4-6 Hz and this device is highly sensitive to detect and dampen such low frequencies. The device has a ring-like model which makes it more compact than the Gyro Glove and also offers lesser visibility than the Gyro Glove. The compact nature of the device enables it to provide a more localized detection of tremors and can be used even in mild cases of ET.</p>		
5. Industrial R&D / consultancy undertaken, if any, during previous two years(submit the certificate of completion of project from the client)	View/Download	6. Details of entrepreneurship development related activities undertaken during last two years, if any (submit proof of completion of activities)	View/Download
7. Details of any assistance taken from any of the schemes of this Ministry:			
8.			
Implementing Agency		MSME-DFO Chennai	
Application Remarks			
Action	Date	Status	Remark
PMAC	26/Jun/2023 08:15:51 PM	Approved By PMAC	Your institute is approved in-principally as Host Institute(HI) for implementation of the Incubation component under MSME Innovative Scheme (Under MSME Champion scheme) in the Meeting of 4th PMAC held on 26/06/2023 at New Delhi subject to fulfilling all conditions issued by O/o DC MSME from time to time on MIS Portal.


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Chennai-600 127.

MSME-DFO Chennai	20/Apr/2023 02:40:35 PM	Forwarded By IA	MSME-DFO, Chennai. It is noticed that Tagore Medical College and Hospital, Rathinamangalam, Chennai is having sufficient space, infrastructure and facilities, man-power, both sophisticated and regular equipment's in the laboratories and programmes on health sciences offered as per University and NMC norms on various medical field courses as per UGC Norms. TMCH has established Incubation Centre, Institutions Innovation Council (IIC) and Entrepreneurship Development Cell for the entrepreneurial development activities. Through this Center various activities such as webinars, skill development programs and entrepreneurship development programs are being conducted. TMCH has a good research team towards improving Medical Health technologies by participating in various workshops and competitions. The EDC cell also concentrates more on Entrepreneurship by conducting various events online and offline. As a result of these events or Programs, the Incubation Centre, students have started to submit the proof of concept to various funding schemes. The IPR cell has organized different activities such as Guest Lectures, Webinars, Seminars, International conferences, Hands-on training, Internal Hackathons etc. This institution has published 25 patents and is in the stage of examination. The faculties of this institution have published 482 articles in well reputed National International journals. This institution has earmarked around 5,600 Sq.ft area for an Incubation centre. They have MoU with TCE to get expertise in the field of engineering trades to nurture the Idea /innovation leads to the development of prototypes . The uploaded documents in the online application vide no. HIBITN004270 are verified with the original documents and this Institute is approved recognized by under National Medical Commission dated 20th October 2022 and is affiliated to the Tamilnadu Dr. MGR Medical University dated 02nd March 2021. Hence the Institute proposal of HI/BI is recommended.
Dr. J. Muthukumaran	18/Apr/2023 11:38:25 AM	Clarification sent by HI/BI	The undertaking has been given with contact details of the head of the institution and the in-charge of business incubation.
MSME-DFO Chennai	17/Apr/2023 12:49:59 PM	Clarification Asked by IA	Sir, Please upload Undertaking for Name of Principal, Contact No., Mail id Business Incubation Incharge Name, Contact No., mail id through your portal detail of Registration : iv. any other.
Dr. J. Muthukumaran	15/Feb/2023 10:24:33 AM	Clarification sent by HI/BI	1. Industrial RD/consultancy undertaken document has been uploaded 2. We have not received any financial support from Govt. Departments. 3. Dr. I. Kannan, Coordinator of the Incubation center has enrolled/registered with MSME
MSME-DFO Chennai	14/Feb/2023 09:43:0 AM	Clarification Asked by IA	Pls submit / Upload following details 1. Industrial R&D / consultancy undertaken and development related activities undertaken 2. Have you received financial support from Govt. Departments? 3. No. and details of MSMEs enrolled/engaged with?

Declaration

☒ I have read the scheme guidelines and shall abide by all the terms and conditions required for seeking financial assistance. I hereby, declare that information given above is true to the best of my knowledge. Any information /documents that may be required to be verified shall be provided immediately before the concerned authority. I hereby, declare that I have not availed any financial assistance for the said purpose under any other scheme from any government agency.



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Rathinamangalam, Melakkottaiyur Post, Chennai - 600127.

Phone : 044-30101111, Fax : 044-222 5555, Email: tagoremch@gmail.com



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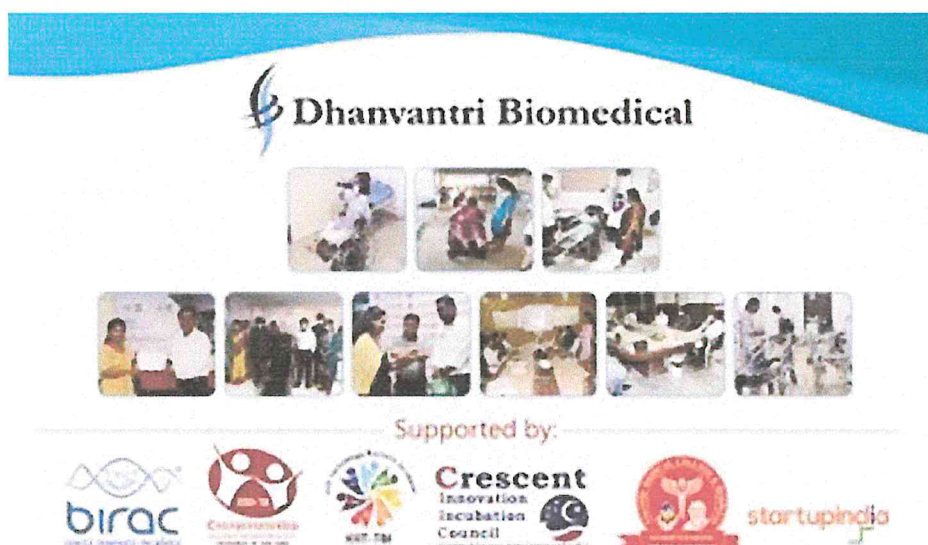
Industrial R&D /Consultancy Undertaken REPORT

Project: Sahayatha – A smart locomotory device with inbuilt defecation assembly

Applicant:

Mrs. Sruthi Babu Founder & CEO

Dhanvantri Biomedical Pvt Ltd



[Signature]
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Chennai-600 127.



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Ph. : 044 - 3010 1111 Fax No. : 044 - 222 5555 E-mail : tagoremch@gmail.com



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dhanvantri Biomedical Private Limited did the Phase I Clinical validation under our Tagore Medical College and Hospital. They have presented in our committee consisting of Dean, Medical Director, Medical Superintendent, Doctors and other esteemed members.

Then they moved forward to complete clinical validation-Phase I. At the end of clinical validation, output was presented to the committee.

Response:

- ❖ The committee gave them a positive approbatory response where they stated that the product Sahayatha is bringing comfort to the patient with convertible wheelchair cum bed.
- ❖ Sahayatha is providing enormous support for patients in assisting them in defecation process with novel cleansing idea maintaining the dignity.
- ❖ The product decreased the number of caretakers involved for assisting patient during the defecation process.

Suggestions:

- The committee also gave suggestion to place a bag to collect the urine and fecal matter to maintain the dignity of the caretaker as well.
- Include the hot air blow to facilitate the drying of washed area

We are looking forward to procure the product 'Sahayatha'.

We wish the team Sahayatha for their future success.

Dr. KUMUDHA LINGARAJ, M.D., D.A.
Professor & H.O.D.,
Department of Anesthesiology

TAGORE MEDICAL COLLEGE AND HOSPITAL

Trust Office : No. 25, Mahalingam Street, Mahalingapuram, Nungambakkam, Chennai - 600 031

Reg. No: 41483

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RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.



TAGORE MEDICAL COLLEGE & HOSPITAL

Rathinamangalam, Melakkottaiyur Post, Chennai - 600127.

Phone : 044-30101111, Fax : 044-222 5555, Email: tagoremch@gmail.com



(Affiliated to the Tamil Nadu Dr.MGR Medical University & Recognized by the Ministry of Health & Family welfare, Govt. of India New Delhi)

Title of the Proposal: A smart intravenous dripper system for centralized monitoring and automatic stopping of intravenous fluid

Principal Investigator: Ms. Radhakrishnan Jothiram, CEO, Rekindle Automations Pvt. Ltd.

Co-investigators: Dr. KumuthaLingaraj, Professor of Anesthesia and Medical Director, TMCH and Dr. Sree T. Sucharitha, Professor of Community Medicine and Research Coordinator, Central Research Laboratory, TMCH



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RATHINAMANGALAM, MELAKOTTAIYUR POST,
Chennai-600 127.



TAGORE MEDICAL COLLEGE & HOSPITAL

Rathinamangalam, Melakkottaiyur Post, Chennai - 600127.

Phone : 044-30101111, Fax : 044-222 5555, Email: tagoremch@gmail.com



(Affiliated to the Tamil Nadu Dr.MGR Medical University & Recognized by the Ministry of Health & Family welfare, Govt. of India New Delhi)

Two Proposals for MSME Idea Hackaton 2.0 were submitted from Tagore Medical College and Hospital, Rathinamangalam, Chennai, India. Brief details of the project include:

1. Principal Investigator-R Shri Ram Sakisnu, MBBS -1ST Year, Tagore Medical College and Hospital

Title of proposed idea/innovation is” Production of electricity from vibrations like sound, etc.,”

Outline of the innovative idea

This method could be potential supplement for production of electricity and meet the energy requirements of the future generation. This method utilize the vibrations present in the environment as a source of mechanical stress for the piezoelectric devices. The piezoelectric materials produce electricity on application of any mechanical stress. This method is working on the principle of piezoelectric effect. On application of mechanical stress i.e., vibrations onto the piezoelectric devices the piezoelectric crystal present in the piezoelectric devices gets vibrated and piezoelectric effect occurs. Thus energy is generated. The generated energy is stored in the storage unit and utilized for further energy need.

Concept and objective

- Designing suitable model for effective collection/absorption of various vibrations present in environment
- Analyzing the absorption of various vibration absorbing materials like acoustic meta materials, cardboard sheets etc.,
- Ensuring effective transfer of the vibrations onto piezoelectric materials
- Designing electrical circuit for optimum production of electricity
- Evaluation of energy production under various circuit design
- Analyzing all methods of storage of generated electricity
- Analyzing economic efficiency of the circuit
- Construction of circuit to withstand real life environmental factors

Business plan

To provide economic sustainable, nonpolluting, renewable method for production of electricity for various sectors which require electricity both commercial and domestic purposes by using piezoelectric devices

2. Principal Investigator-Manasa. P- MBBS -1ST Year, Tagore Medical College and Hospital

Title of proposed idea/innovation – “Pocket-friendly and highly sensitive tremor-dampener”

Outline of the innovative idea

This project mainly focuses on providing a pocket-friendly, lightweight, easy-to-carry, economical, and highly-sensitive device to reduce the intensity and visibility of tremors.

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Essential tremors usually prevail in the frequency of 4-6 Hz and this device is highly sensitive to detect and dampen such low frequencies. The device has a ring-like model which makes it more compact than the Gyro Glove and also offers lesser visibility than the Gyro Glove. The compact nature of the device enables it to provide a more localized detection of tremors and can be used even in mild cases of ET.

The device works on the principle of neuro-modulation. It is designed to contain mini-sized electrodes that deliver electrical stimulation to the median and radial nerves which are the chief nerves of the hands. It detects tremulous activity through median and radial nerves and provides dys-synchronous stimulus to the ventral intermediate nucleus of the Thalamus of the brain. The resulting motor output of the hands is tremor-free. The ring design aims to easily target the most vulnerable parts of the hands (the fingers and Metacarpo-phalangeal joints) where tremors are more prevalent and visible.

Experimental work will be carried out to improve the stability and durability of the material. Further, the innovation also aims to identify a water-resistant model of the proposed device. This innovation aims to provide a device with low cost and satisfy high demands. Consequently, the proposed device would be developed for usage by individuals from all age groups. Its user-friendly nature can enable it to be a preferred choice of device to treat tremors in Hospitals, Old age homes, and others. ET can affect people of all age groups and therefore it can be a boon for middle-aged people- workers, labourers, and students

Concept & Objective-

- To design a device that shows a considerable reduction of essential tremor in the user's hand
- To design a simple and compact ring model tremor dampener that is pocket-friendly and easy to use
- To provide a tremor-dampening device that has high sensitivity and localization
- To design a device that offers less visibility to users and hence makes it preferable for usage
- To help break the stigma surrounding tremors and young and middle-aged individuals who suffer from ET
- To ensure the availability of the device at a low cost and meet high demands

Business plan

A compact, pocket-friendly tremor-dampening device provides lesser visibility to the user. The proposed device can significantly alter the quality of an individual's life. Labourers, middle-aged workers, musicians, chefs, military professionals, etc who suffer from ET can regain their confidence and continue to do skilful motor tasks.

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Tagore Medical College and Hospital Mail - Fwd: MSME Idea Hackath...

<https://mail.google.com/mail/u/0/?ik=2ad94b94bb&view=pt&search=a>



Dr. I. Kannan <dr.ikannan@tagoremch.com>

Fwd: MSME Idea Hackathon 2.0

1 message

Shri Ram Sakisnu <shriramsakisnu@gmail.com>
To: "I. Kannan" <dr.ikannan@tagoremch.com>

Tue, Jul 18, 2023 at 11:53 AM

Begin forwarded message:

From: MSME Idea Hackathon <helpline-msme@gov.in>
Date: 14 November 2022 at 11:26:13 AM IST
To: shriramsakisnu@gmail.com
Subject: MSME Idea Hackathon 2.0

MSME IDEA HACKATHON 2.0

Dear Shri Ram Sakisnu R,

Your idea proposal for MSME Idea Hackathon 2.0 has been submitted successfully.

Regards,
Administrator

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Dr. I. Kannan <dr.ikannan@tagoremch.com>

Fwd: MSME Idea Hackathon

1 message

Manasa Prakash <venkatgayatri5@gmail.com>
To: dr.ikannan@tagoremch.com

Tue, Jul 18, 2023 at 11:57 AM

----- Forwarded message -----

From: MSME Idea Hackathon <help@ne-msme@gov.in>
Date: Mon, Nov 14, 2022, 11:15 AM
Subject: MSME Idea Hackathon
To: <venkatgayatri5@gmail.com>

MSME IDEA HACKATHON 2.0

Dear Manasa P,

Your Registration submitted successfully.

Regards,
Administrator

This is an automated message. Do not reply

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