INSTITUTION'S INNOVATION COUNCIL
MOE'S INNOVATION CELL

Institute Name:
B.S. Abdur Rahman Crescent Institute of Science & Technology

Title of the Innovation/Prototype:
MOSAIQUE PRIVATE LIMITED

Team Lead Name:	Team Lead Email:	Team Lead Phone:	Team Lead Gender:
Hiroyuki Ishida	ishida0830@gmail.com	9901209768	Male

Website (if any):
https://mosaique.link/

Startup/Venture Registered as:
Private Limited Firm (Pvt. Ltd.)

Year of Establishment (FY)
2020-21

Corporate Identification No (CIN)
U72900KA2020PTC132912

Corporate Identification No (CIN) Copy (Max 2 MB and in jpg, png, pdf format)
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Provide Director's Identification Number (DIN)
08188687

Provide Director's Identification Number (DIN) Copy (Max 2 MB and in jpg, png, pdf format)
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Does your Startup/Venture Recognized by DPIIT, Startup India?:
No

Name a Key Innovation which is Core to the Startup /Venture:
WASTE MANAGEMENT AND ELECTRIC VEHICLES

Year of Started Receiving Pre-incubation/IncubationSupport for the Development of Innovation-Startup from the Institute (FY):	The Key Innovation which is Core to your Startup /Venture was Developed as:	Choose the Type of Innovation:	TRL LEVEL:
2022-23	Independent Assignment/Non-academic Study Project	Product	4

The Sector/Domain of Focus of the Innovation/Startup / Venture:
Healthcare & Biomedical devices.,Smart Vehicles/ Electric vehicle/ Electric vehicle motor and battery technology.,Waste Management/Waste to Wealth Creation,Renewable and affordable Energy.,Smart Cities,Sustainable Enviroment,

Define the problem and its relevance to today's market / sociaty / industry need:
Problem-1 Waste Management: Our startup has indulged in developing a green solution for decomposition of plastics and household wastes using high temperature characteristics of water as a solvent to produce useful by products in safe and portable way. Problem -2 Electric vehicle: Research on development of E-autorickshaw with swappable batteries were going on. Problem- 3 Prosthetic arm: Research on development of prosthetic hands with flexibility and automation has been going on.

Describe the Solution / Proposed / Developed:

Explain the uniqueness and distinctive features of the (product / process / service) solution:

How your proposed / developed (product / process / service) solution is different from similiar kind of product by the competitors if any:

Is there any IP or Patentable Component associated with the Solution?:
No

Did the venture/startup receive any innovation grant from the Institute?
No

Did the venture/startup receive any innovation grant from any external sources, so far?
No

Did the venture/startup raise any Angel/Venture Capital Investment so far?
No

Are there any recognitions/awards received by the venture/startup for the innovation in National/International Competitions?:
No

Upload the Audited copy of the financial Statement clearly indicating the FY and Annual turnover amount of Rs. 50 Lakhs or above:
No

Define the Problem – Solution fit achieved/to be achieved by the Startup: Briefly explain the relevance of the innovative solutions are being offered by the startup and what/whose problem (Industry/Society/Market) these are solving:
Problem-1 Waste Management: Our startup has indulged in developing a green solution for decomposition of plastics and household wastes using high temperature characteristics of water as a solvent to produce useful by products in safe and portable way. Problem -2 Electric vehicle: Research on development of E-autorickshaw with swappable batteries were going on. Problem- 3 Prosthetic arm: Research on development of prosthetic hands with flexibility and automation has been going on.

Define the Product-Market fit achieved/ to be achieved by the Startup: Briefly explain the readiness levels (Technology Readiness Level and Manufacturing Readiness Level) of innovations/solutions offered by the startup to meet the customer need/requirement.
Product-1 : Waste management setup- Can be used by communities like apartments, hospitals, schools and hotels to process their daily wastes. further development of a portable product for normal households is under the pipeline(TRL -4,MRL-4) Product-2: Electric Vehicle: Retrofitting of auto rickshaw with swappable batteries for easy replacement and weight reduction factor(TRL-4, MRL-4). Prosthetic arm: Affordable bionic arm comprising all the features with more flexibility and reduced price.

Detail the potential market size and target customers/segment (Total Available Market -TAM, Serviceable Available Market - SAM, Serviceable Obtainable Market - SOM):
WASTE MANAGEMENT -COMMUNITES AND COMMON HOUSE HOLDS ELECTRIC VEHICLE - COMMON PASSENGER AUTO RICKSHAW PROSTHETIC ARM - PEOPLE WITH LOCOMOTOR DISABILITIES

Detail the Business fit achieved/ to be achieved by the Startup: Briefly explain the business model readiness level of innovations to be commercialized. Business Tractions Achieved for the innovation if any, briefly explain the customer tractions achieved for the innovations or solutions offered by the Startup as an attempt to commercialization:
Products have been developed as laboratory prototypes and in testing condition. Modifications has to be done according to test results to achieve business fit.

Highlight any competitive advantages such as Intellectual property (IP) or any Unique Selling Proposition (USP) etc. associate with the product/service/business model/startup:
Our waste management project has an USP that the technology is less prevalent in india and too mainly used for extraction process we are converting it into waste management tool to be used by common people in the form of communities or common households. prosthetic arm can be useful for weaker and old people with locomotor disability as it is more flexible and reduced weight. Retrofitting of autorickshaw with swappable batteries may be first of its kind in india.

Video URL:
https://drive.google.com/file/d/1PNY1xWHkMWftjOjhQ4MH8UY4DxZCbGB6/view?usp=sharing

Innovation Photograph:
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