



THE INNOVATION, INCUBATION AND
ENTREPRENEURSHIP DEVELOPMENT CENTRE
(IIEDC) PRESENTS SOME GLIMPSES OF
PROJECT DETAILS FOR

**Innovators/Startups at IIED Centre,
NIT, Srinagar**

LIST OF INNOVATORS/STARTUPS

S.No	Project/Startup	Sector
1	Saffron Processing Machine	Agri-Tech
2	Automatic Seed Sowing Machine (Naik Agritech Pvt. Ltd.)	Agri-Tech
3	Sky Robo Drones Pvt. Ltd.	Drone Technology
4	AI Based Fruit/vegetables disease detection models & allied services for fruit/vegetable growers of J&K (Ambur)	Agri-Tech/Horticulture Digital Solutions
5	Multi-Purpose Agricultural Vehicle (Agri-Tech)	Agri-Tech
6	Career / Employability Indexing (Move Beyond)	Edu-Tech
7	Solar Car	Solar-Tech
8	Solar Powered Trash Collector on Water	Solar/Mechanical Technology
9	Robotic Glove Haptic Feedback & Brain Computer Interfaces enabled Toy Devices for Neuro-Rehabilitation of Children	Neuro-Rehabilitation
10	AI DRIVEN OBJECT IDENTIFYING EDUCATIONAL TALKING TOY	AI Technology
11	Micro-mobility Services/ Transportation (Cielo)	Transportation Services

1. SAFFRON PROCESSING MACHINE (AGRI-TECH)

PROJECT STATUS: WORKING PROTOTYPE DEVELOPED BY INNOVATOR
MR. TARIQ AHMAD

Product Description : The concept is to develop a machine which can process raw saffron into finished marketable product. The aim is to automate the process of removing the root part from every saffron flower with improved quality. This machine can process 1 Kg of Saffron in 1 to 2 hours unlike manual labour which take whole day for the same. User friendly machine with simple operations. It will also enhance processing productivity, minimize effect on human health, reduce processing cost, good quality will grab market which in turn improve standard of living.

SAFFRON PROCESSING MACHINE (AGRI-TECH)

PROJECT STATUS: WORKING PROTOTYPE DEVELOPED BY INNOVATOR
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NIT SRINAGAR
National Institute of Technology, Srinagar

Two prototypes developed by local innovators under MSME incubation scheme inaugurated at NIT Srinagar

Need to bridge technological gap between industry, academia, and society: Dir Industries

Srinagar, Nov 01 Two prototypes developed by local innovators including Saffron Processing Machine and saffron sowing machine were inaugurated at National Institute of Technology (NIT), Srinagar.

The event was presided over by the Director, Industries, Commerce and Consumer Affairs, Mr. Sunil Kumar, who was accompanied by the Director, NIT Srinagar, Prof. Dr. Anand Kumar, and other officials. The event was held in the presence of the Director, Industries, Commerce and Consumer Affairs, Mr. Sunil Kumar, who was accompanied by the Director, NIT Srinagar, Prof. Dr. Anand Kumar, and other officials.

The Director, Industries, Commerce and Consumer Affairs, Mr. Sunil Kumar, while inaugurating the two prototypes, said that the need to bridge the technological gap between industry, academia, and society is a paramount concern. He emphasized the importance of fostering innovation and entrepreneurship among young entrepreneurs and innovators.

He also mentioned that the MSME incubation scheme is a key initiative to support and nurture local innovators and entrepreneurs. He expressed his confidence that the two prototypes, the Saffron Processing Machine and the Saffron Sowing Machine, will be a significant contribution to the saffron industry in the region.

The Saffron Processing Machine, developed by Mr. Tariq Ahmad, is a state-of-the-art machine designed to streamline the saffron processing process, from harvesting to packaging. It is expected to significantly reduce the manual labor involved in this process, thereby increasing efficiency and productivity.

The Saffron Sowing Machine, developed by Mr. Anand Kumar, is a specialized machine designed to facilitate the sowing of saffron seeds. It is expected to improve the sowing process, ensuring better seed placement and spacing, which will ultimately lead to higher yields and better quality saffron.

The Director, Industries, Commerce and Consumer Affairs, Mr. Sunil Kumar, concluded his address by expressing his appreciation for the efforts of the local innovators and the support provided by NIT Srinagar. He reiterated the government's commitment to supporting and nurturing local innovators and entrepreneurs.



The event was held in a well-attended ceremony, with several officials and innovators present. The two prototypes were showcased to the audience, and the innovators were given the opportunity to present their work. The Director, Industries, Commerce and Consumer Affairs, Mr. Sunil Kumar, and the Director, NIT Srinagar, Prof. Dr. Anand Kumar, were seen interacting with the innovators and examining the prototypes.

The Saffron Processing Machine and the Saffron Sowing Machine are expected to have a significant impact on the saffron industry in the region. They are expected to reduce the cost of production, improve the quality of the saffron, and increase the overall productivity of the industry.

The Director, Industries, Commerce and Consumer Affairs, Mr. Sunil Kumar, and the Director, NIT Srinagar, Prof. Dr. Anand Kumar, are expected to continue their efforts to support and nurture local innovators and entrepreneurs. They are expected to provide the necessary support and resources to help these innovators and entrepreneurs realize their dreams and contribute to the growth of the saffron industry in the region.

Two prototypes developed by local innovators under MSME incubation scheme inaugurated at NIT Srinagar

Innovative prototypes of seed sowing, saffron processing machines unveiled at NIT Srinagar

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Two prototypes developed by local innovators under MSME incubation scheme inaugurated at NIT Srinagar

2. AUTOMATIC SEED SOWING MACHINE (AGRI-TECH)

PROJECT STATUS: WORKING PROTOTYPE DEVELOPED BY INNOVATOR
MR. NAIK QAYOOM
(NAIK AGRITECH PVT. LTD.)

Product Description : The machine serves the purpose of sowing seeds (line sowing, point sowing and random broadcasting). Its ergonomic design saves time and costs involved with its automatic functionality, the tedious process of sowing becomes easy, accurate and fast for the farmers. It is portable, low cost and serves three functions that is sowing in the form of line, point and random broadcasting. It reduces the effort of a farmer to the press of a button while carrying out the same task.

AUTOMATIC SEED SOWING MACHINE (AGRI-TECH)

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National Institute of Technology, Srinagar

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Need to bridge technological gap between industry, academia, and society: Dir Industries

Srinagar, Nov 01: The inauguration of two prototypes developed by local innovators under MSME incubation scheme inaugurated at NIT Srinagar. The event was presided over by the Director, Industries and Commerce, Jammu and Kashmir, Dr. Rajesh Kumar. He was accompanied by the Director, NIT Srinagar, Prof. Dr. Anil Kumar, and other officials.

The two prototypes, developed by Mr. Naik Qayoom and Mr. Anil Kumar, are designed to automate the sowing process in agriculture. They are expected to significantly reduce the labor and time required for sowing, thereby increasing the efficiency of agricultural operations.

Dr. Rajesh Kumar, while inaugurating the prototypes, stressed the importance of such innovations in bridging the technological gap between industry, academia, and society. He highlighted the role of MSME incubation schemes in fostering entrepreneurship and innovation among local innovators.

The Director, NIT Srinagar, also expressed his appreciation for the efforts of the innovators and the support provided by the MSME incubation scheme. He stated that such initiatives are crucial for the growth and development of the state's economy.



The inauguration ceremony was held in a grand hall at NIT Srinagar. The event was attended by a large number of guests, including officials from the government and academia. The two prototypes were demonstrated to the audience, and their features and benefits were explained in detail.

The first prototype, developed by Mr. Naik Qayoom, is a hand-operated machine that uses a hopper to hold the seeds and a mechanical system to sow them into the soil. The second prototype, developed by Mr. Anil Kumar, is a more advanced machine that uses a motor to power the sowing process.

Both prototypes are designed to be simple and easy to use, making them suitable for small-scale farmers. They are also designed to be durable and long-lasting, ensuring that they can be used for many years.

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Two prototypes developed by local innovators under MSME incubation scheme inaugurated at NIT Srinagar

3. SKY ROBO DRONES (DRONE TECHNOLOGY)

PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR **MR. ABAAN HABIB**
(SKY ROBO DRONES PVT. LTD.)

- **Product Description :** Design and development of drones for different applications such as disaster management, man animal conflict, inter-hospital blood supplies etc. The drones have different payloads and are digitally connected for maneuverability, height control, pay load release, dart gun fire.

SKY ROBO DRONES (DRONE TECHNOLOGY)

PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR MR. ABAAN HABIB (SKY ROBO DRONES PVT. LTD.)



4. AI BASED FRUIT/VEGETABLES DISEASE DETECTION MODELS & ALLIED SERVICES FOR FRUIT/VEGETABLE GROWERS OF J&K (AGRI-TECH/HORTICULTURE DIGITAL SOLUTIONS)

PROJECT STATUS: MODEL DEVELOPED & WAITING FOR FUNDS TO IMPLEMENT ON
GROUND BY INNOVATOR

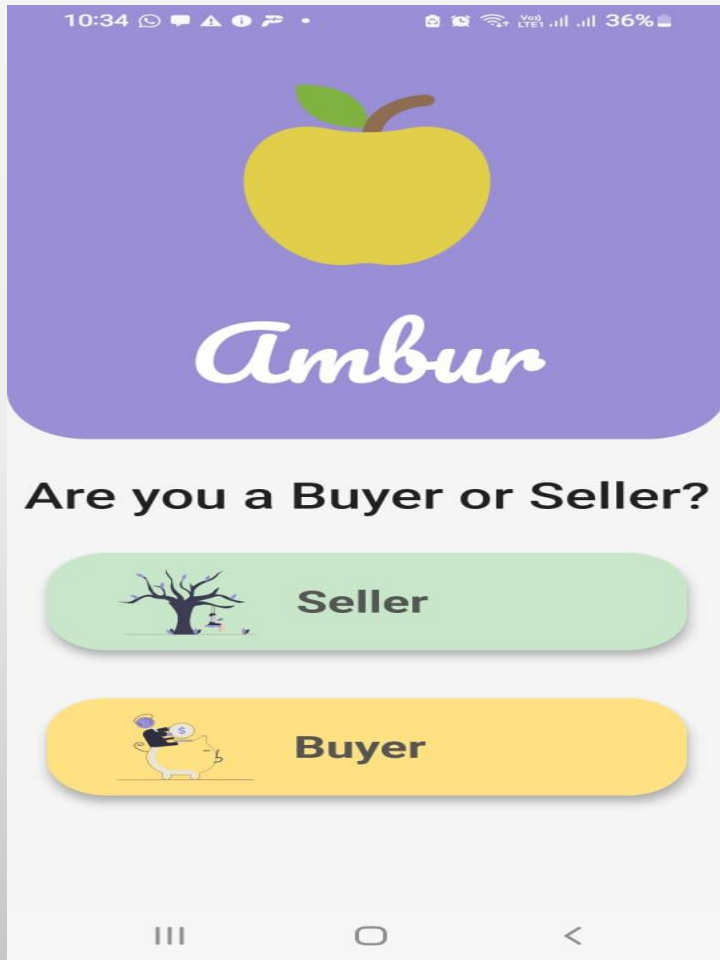
MR. IZAN MAJEED (AMBUR)

Product /Service Description : The mobile app developed would meet the following objectives:

- To digitally connect the horticulture department, J&K with all the growers.
- To provide the fruit growers with professional assistance.
- To keep the fruit growers acquainted with the current market scenario.
- To develop a mechanism where fruit growers can sell their products using the digital platform.
- To provide real-time information about the weather conditions in order to generate an appropriate response system.
- To apply Artificial intelligence for early plant diseases (leaf non-conformity onset) detection using computer vision.
- Facilitate growers for online application of different schemes and incentives of the horticulture department J&K government.

**AI BASED FRUIT/VEGETABLES DISEASE DETECTION MODELS & ALLIED SERVICES FOR
FRUIT/VEGETABLE GROWERS OF J&K
(AGRI-TECH/HORTICULTURE DIGITAL SOLUTIONS)**

PROJECT STATUS: MODEL DEVELOPED & WAITING FOR FUNDS TO IMPLEMENT ON GROUND BY
INNOVATOR
MR. IZAN MAJEED (AMBUR)



5. MULTI-PURPOSE AGRICULTURAL VEHICLE (AGRI-TECH) PROJECT

STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED;

INNOVATOR MR. KHURSHEED

- **Product /Service Description :** The machine MPAV will be first of its kind to offer seven different functions in one compact design. This machine will prove a great asset to the farmers which will help them to increase profitability and production by reducing the dependence on multiple equipments, reducing labour cost and save time of a farmer. Besides these costs, the cost of maintenance and cost of running the machine is going to be low. The machine will be 4x4 wheel drive to ensure efficiency in wet lands and different weather conditions. The machine will be 8 feet long and 4 feet wide. The driver will have adjustable seat to make the use of machine comfortable.

Following 8 features will be available in the machine:

- 1. Land Tilling
- 2. Land leveler
- 3. Paddy reaper.
- 4. Sprayer pump.
- 5. Load Carrier like seeds and farm produce.
- 6. Lawn Mower and bush cutter
- 7. Snow Cleaner.
- 8. Wood chipping

**MULTI-PURPOSE AGRICULTURAL VEHICLE (AGRI-TECH) PROJECT STATUS:
WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR
MR. KHURSHEED**



6. CAREER / EMPLOYABILITY INDEXING (EDU-TECH)

PROJECT STATUS: UNDER PROGRESS & STARTED BY INNOVATOR

MR. SHEIKH INAYAT ULLAH

(MOVE BEYOND)

Product /Service Description : Aiming at quantification of youth aspirations (career) and guiding, enhancing access and connecting them with the opportunities globally in line with their interest, aptitude and personality in real time.

CAREER / EMPLOYABILITY INDEXING (EDU-TECH)

PROJECT STATUS: UNDER PROGRESS & STARTED BY INNOVATOR MR. SHEIKH INAYAT ULLAH
(MOVE BEYOND)

3

Mountain Valley
Kashmir

SRINAGAR
SUNDAY 12-FEBRUARY-2023

Need to develop Career guidance ecosystem in JK: Director NIT Srinagar

Three-day Career Counseling Orientation program organized by Move Beyond, IIEDC, UNICEF concludes in Srinagar

Srinagar, Jan 11: The three-day workshop "Career Guidance and Counselling Orientation Program" organized by Move Beyond in collaboration with IIEDC, NIT Srinagar, UNICEF India and SCERT-JK concluded on Saturday at Bemina, Srinagar. The workshop was attended by government teachers from various government schools of the Valley.

The program was presided over by Prof. (Dr.) Rakesh Sehgal, Director NIT Srinagar was Chief Guest and Chief Resource Person on the occasion, while Danish Aziz, Education Specialist, UNICEF India was "Guest of Honor".

Addressing the gathering, Prof Rakesh Sehgal, Director of NIT Srinagar said there is need to develop career guidance ecosystem in Jammu and Kashmir. It helps students choose the right career path based on their educational and professional choices.

He also praised Move Beyond; the startup of NIT Srinagar for doing a commendable job by empowering students and teachers.

"It provides them career guidance, and information and exploring different career paths that are in tune with their (students) strengths and personality," he said.

Prof. Sehgal also highlighted NEP 2020 and its role in the career guidance and counseling ecosystem in the country. NEP 2020 brings forth such an educational system where students are empowered to exercise their right of choice, he said.

"NEP 2020 emphasizes the career guidance and counseling ecosystem in schools. We have supported and will continue to support Move Beyond for their career guidance initiatives in the best possible manner," Prof. Sehgal said.

In his message, Registrar NIT Srinagar, Prof. Syed Kaiser Bukhari said that career guidance and counseling are important for career progression and achieving big milestones in today's world.

"There is no dearth of talent among the youth of Kashmir but there is a need for proper guidance, counseling to enhance



and encourage their capabilities," Prof. Bukhari said.

Danish Aziz, Education Specialist, UNICEF India, who was Guest of Honour said UNICEF is committed to developing and supporting the career ecosystem of J&K and is doing everything possible to make it robust and

student-centric.

In his message, Head IIEDC, NIT Srinagar, Dr. Saad Parvez said that it is glad to see that SCERT-JK has taken an initiative for capacity building of teachers on career counseling. It will have a long-lasting impact on the student community, he said.

On the occasion, Sheikh Inayat Ullah, CEO Move Beyond said they are already working in the area of career guidance and counseling.

"We have a mission to educate each and every student, teacher, and parent and provide them timely guidance and information on the different career options," he said.

Sheikh Inayat Ullah said they are connected to the entire educational landscape of J&K through the Honorable LG's intervention. He also said they are committed to providing our teachers with the resources and support they need to help their students succeed.

The Move Beyond CEO also impressed upon the participants that it is not just a career but life. He discussed various career options available across the globe and how to build one's profile to match a particular opportunity.

Officials of SCERT-JK expressed their gratitude to NIT Srinagar, Move Beyond UNICEF India for conducting the exceptional program on career guidance and counseling.

JAMMU LINKS
NEWS



CAMPUS

Startup Move Beyond signs MoU with IIEDC, NIT Srinagar

Jammu Links News

12/20/2021

Both 'Move Beyond' and NIT Srinagar will work jointly for progress of the student community in the region: Prof Sehgal



7. SOLAR CAR (SOLAR-TECH)

**PROJECT STATUS: WORKING PROTOTYPE DEVELOPED &
SUCCESSFULLY TESTED; INNOVATOR**

MR. BILAL AHMAD

Product Description : Use of eco-friendly resources instead of non-renewable and hazardous resources will help us maintain the glory and delay the aging of our beautiful planet. We are polluting atmosphere and posing a threat to the survival of thousands of life forms by utilizing various resources which release toxic substances into the atmosphere, notable among them are petroleum products which we use in our vehicles. My motto is to make this innovative Solar Car affordable for middle class People. As a responsible citizen, I have tried to devise / design an

Innovative Solar Car which will run on solar energy, Needless to mention, utilization of solar energy does not produce any harmful byproduct. Various automobile companies have been designed solar cars notable among them are by Light year, Nisan-leaf, Sion electric car, Aptira etc. have draw back like some are meant for two persons, some are expensive which are not affordable by common people. The solar car built by me is luxurious and spaciouly designed.

SOLAR CAR (SOLAR-TECH)

**PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY
TESTED; INNOVATOR
MR. BILAL AHMAD**



**8. SOLAR POWERED TRASH COLLECTOR ON WATER
(SOLAR/MECHANICAL TECHNOLOGY) PROJECT STATUS: WORKING
PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR
MR. AMAN TIWARI**

- **Product Description :** This will be more environmentally friendly because our primary source of energy will be solar electricity. This initiative will use the sun as a more effective power source to clean the environment, specifically the rivers and lakes. This machine's primary function in this project is to remove waste materials from the water's surface and gather them in a mesh net for disposal. It consists of a mesh net structure that is attached to the back of the trash collector. The water debris, sewage waste, and plastics that are behind the trash collector will be gathered in the mesh net due to the motion of the trash collector, after which we may remove the waste debris from the mesh net. This work has an impact on the reduction of waste in water and the lives of the personnel cleaning the wastes manually by providing them with comfort and convenience while utilizing a smart monitoring system that saves time, cost and energy while maintaining outstanding health and hygiene. As well as modernization and various potential future ideas that might be developed and implemented. As a result, it produces a healthy and disease-free environment.

SOLAR POWERED TRASH COLLECTOR ON WATER (SOLAR/MECHANICAL TECHNOLOGY) PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR MR. AMAN TIWARI



**9. ROBOTIC GLOVE HAPTIC FEEDBACK & BRAIN COMPUTER INTERFACES
ENABLED TOY DEVICES FOR NEURO-REHABILITATION OF CHILDREN PROJECT**

STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR

DR. SANDEEP RATHEE & HIS TEAM

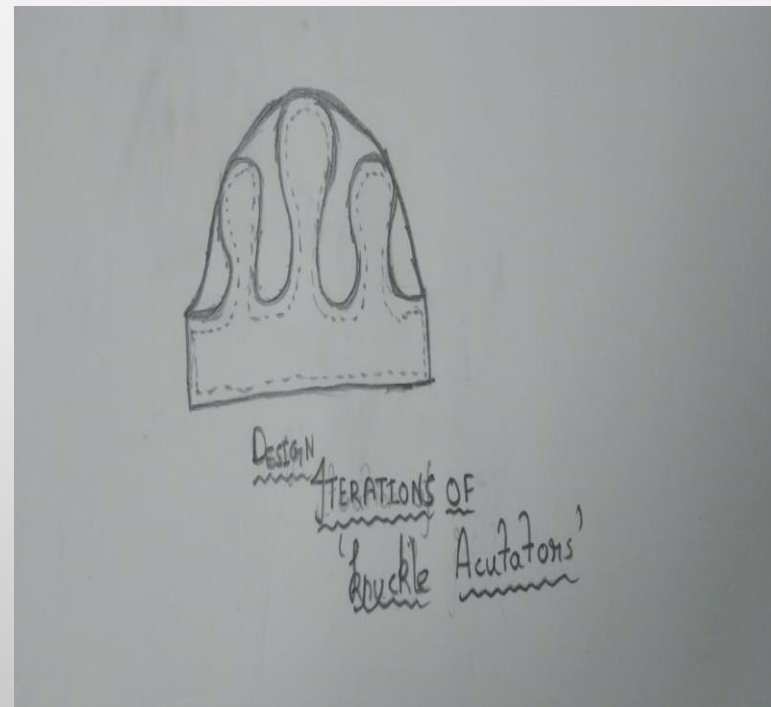
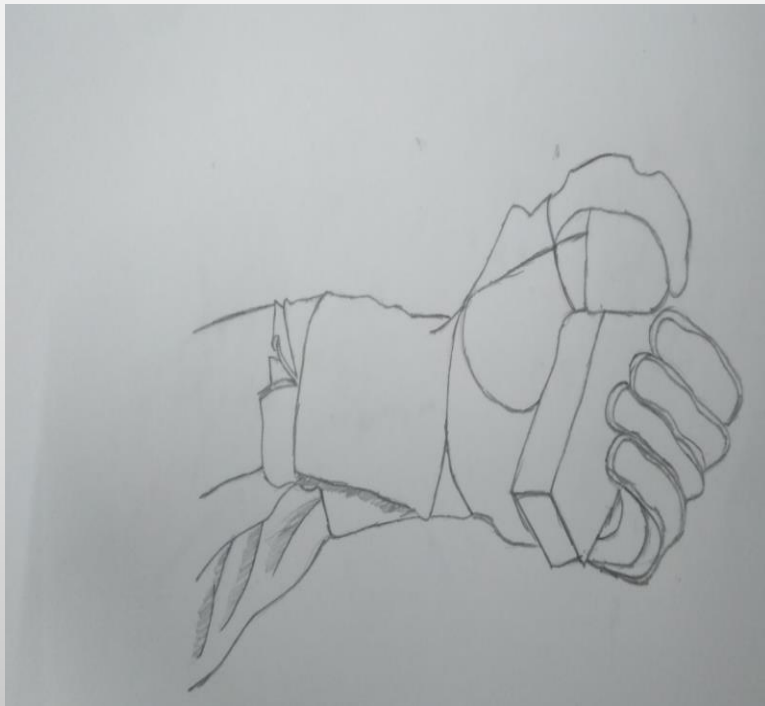
Implementing Agency: **National Institute of Technology Srinagar**

Product Description : Proposed soft robotic glove toy device can allow for manual control of BCI module with radio buttons for selection of desired settings. It can also be fully automated using haptic feedback. The radio buttons can be housed in a control box of the soft robotic glove system and will provide options to activate full grasp, pinch, tripod pinch, and full extension of the soft robotic glove. These different options represent actuation profiles for the soft robotic glove relevant for assisting in carrying out the activities of daily life.

ROBOTIC GLOVE HAPTIC FEEDBACK & BRAIN COMPUTER INTERFACES ENABLED TOY DEVICES FOR NEURO-REHABILITATION OF CHILDREN

PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY
TESTED; INNOVATOR

DR. SANDEEP RATHEE & HIS TEAM

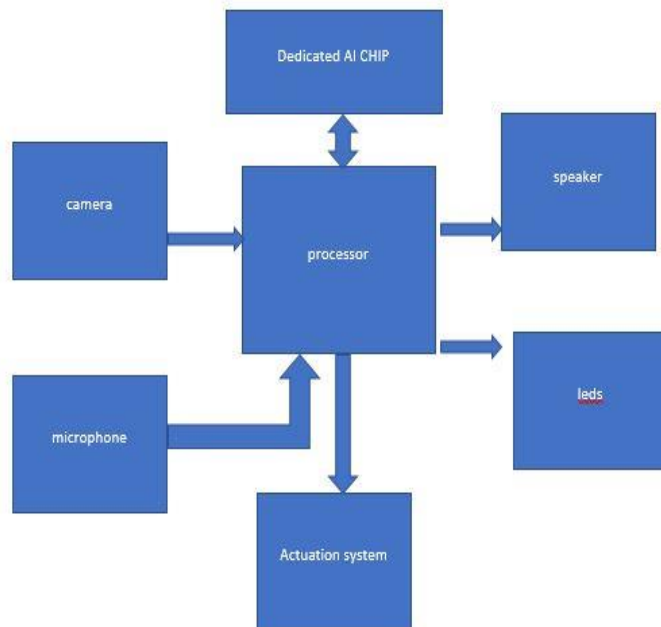


10. AI DRIVEN OBJECT IDENTIFYING EDUCATIONAL TALKING TOY(AI TECHNOLOGY) PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR PROF. BABAR AHMAD & HIS TEAM
Implementing Agency: National Institute of Technology Srinagar

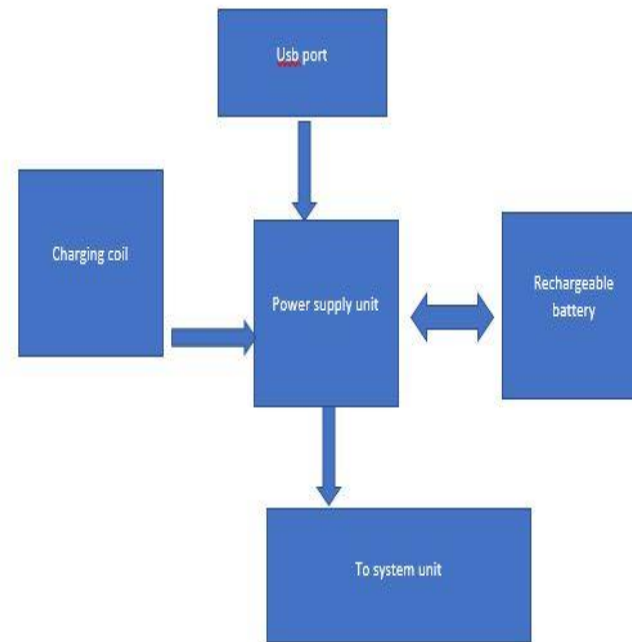
- **Product Description :** The glove can be made of any soft fabric and the actuators can be stitched to the fabric and covered up by the same for better aestheticism. Using the BCI module that will be placed on the head, haptic sensors and a computer, we can use the glove to simulate virtual objects and actions, which will be user-centric and appealing to children. Further research needs to be done on the components and we shall, and are, climbing the learning curve for the same at the highest rate possible.

AI DRIVEN OBJECT IDENTIFYING EDUCATIONAL TALKING TOY(AI TECHNOLOGY) PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR PROF. BABAR AHMAD & HIS TEAM
Implementing Agency: National Institute of Technology Srinagar

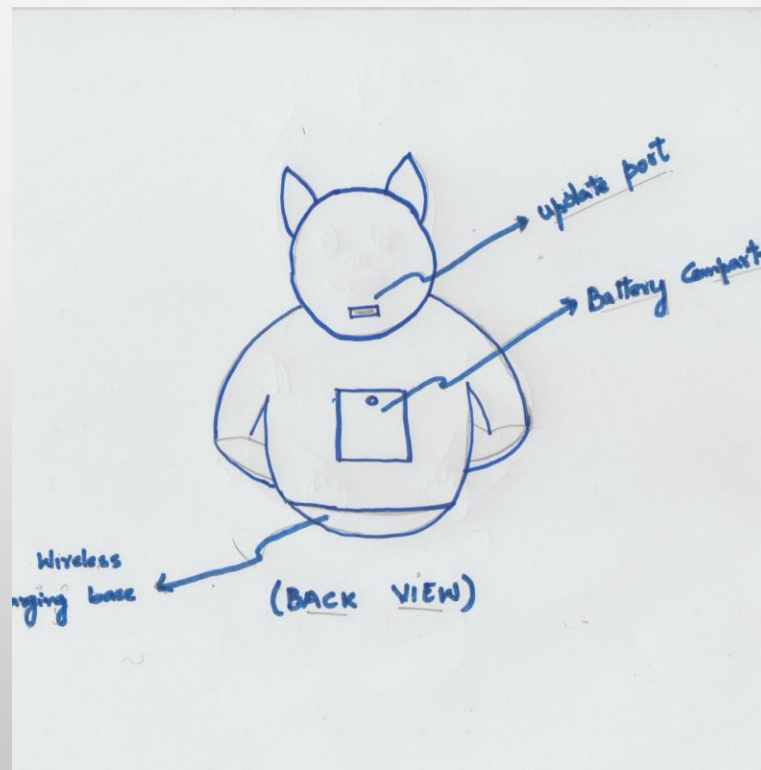
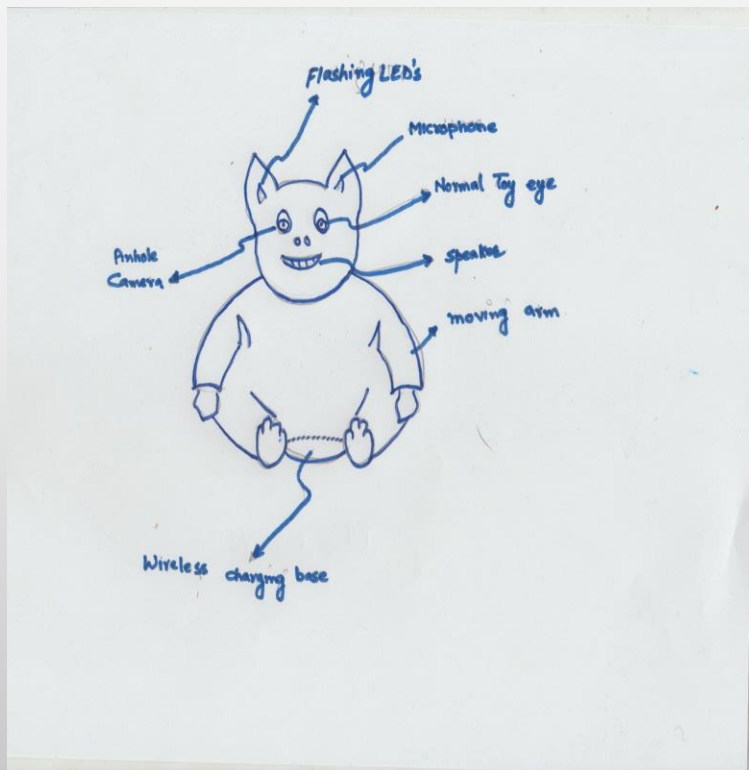
Block diagram of system unit



Block diagram of power supply unit



AI DRIVEN OBJECT IDENTIFYING EDUCATIONAL TALKING TOY(AI TECHNOLOGY) PROJECT STATUS: WORKING PROTOTYPE DEVELOPED & SUCCESSFULLY TESTED; INNOVATOR PROF. BABAR AHMAD & HIS TEAM
Implementing Agency: National Institute of Technology Srinagar



11. MICRO-MOBILITY SERVICES/ TRANSPORTATION (TRANSPORTATION SERVICES) PROJECT STATUS: CURRENTLY ONGOING; INNOVATOR MR. MUHAMMAD UBAID NAZIR (CIECLO)

- **Product /Service Description :** Cielo is Srinagar's first public bicycle-sharing platform that offers premium bicycles for rent on a short-term. The philosophy of cielo is promoting urban mobility in Kashmir through solutions such as affordable bicycle-sharing facilities which are sustainable and help in reducing traffic and pollution . Cielo is a venture lead by NIT Srinagar Alumni who are hoping to expand it into a premium Cycle-sharing network across Kashmir to provide sustainable last-mile transportation services.

MICRO-MOBILITY SERVICES/ TRANSPORTATION (TRANSPORTATION SERVICES)

PROJECT STATUS: CURRENTLY ONGOING; INNOVATOR

MR. MUHAMMAD UBAID NAZIR (CIECLO)



THANK YOU

