



भारत सरकार के प्रधान वैज्ञानिक सलाहकार का कार्यालय
Office of the Principal Scientific Adviser
to the Government of India



National Partner Regional Partner



PU-IIT Ropar Regional Accelerator for Holistic Innovations Foundation Northern Region S&T Cluster

Presents

Grassroots Innovators of Northern India (GINI)

GINI
2.0

Grassroot Initiative to
Scout, Support and
Scale Innovations
from Northern India



Identify
Local Innovations



Enable
Entrepreneurs



Facilitate
Scale & Impact



Strengthen
Regional Ecosystem



ECOSYSTEM ENABLERS



Background

The Country is laying emphasis on need for utilizing Grassroots Innovations (GRIs) to develop solutions for basic human needs for people at the bottom of the pyramid. The number of GRIs per lac population in a state is also one of the indicators for ranking of States in India innovation index Ranking Framework. The GRIs play a pivotal role in providing better alternatives, reducing drudgery improving process efficiency and often have the potential to be turned into an entrepreneurial ventures generating livelihood avenues.

Grassroots Innovators of Northern India (GINI)

PU-IIT Ropar Regional Accelerator for Holistic Innovations Foundation (PI-RAHI), a Northern Region Science & Technology Cluster, in partnership with the National Innovation Foundation (NIF) has launched a flagship initiative 'Grassroots Innovators of Northern India'- GINI, to scout, validate and scale bottom-up innovations emerging from rural, tribal and remote parts of the Northern India.

GINI has been launched as a regional scale up of 'Grassroots Innovations of Punjab' (GRIP), an initiative of the Punjab State Council for Science & Technology (PSCST) to identify and validate unique, community-led solutions, recognize traditional wisdom and grassroots innovations and scale ideas that solve real-world local challenges in the Northern Region.

GINI Edition 2.0

After the success of GINI- J&K Chapter launched in collaboration with NIF, Jammu and Kashmir Science, Technology & Innovation Council (JKSTIC) & PSCST, 'GINI Edition 2.0' is being launched to scout, support and scale innovations emerging from across Northern India- Jammu & Kashmir, Punjab, Himachal Pradesh, Haryana and Chandigarh.

Facilitation Support



Awards to
Innovators



IP
Support



Showcase at National
& State Level



Linkage for Validation
& Scale-up

Selected Grassroots Innovations under GINI – J&K Chapter



Durable Solution to Water Pipeline Challenges in Cold and Freezing Conditions **Mr. Mushtaq Ahmad Buhroo, Baramulla**

Innovation: Modified Non-Return Valve is a dual-valve plate design having octagonal MS body addressing the frequent failure of conventional valves used in large water pipelines. This arrangement divides and reduces water pressure, while the unequal inlet and outlet chamber configuration improves resistance to pressure and freezing-related damage.



Fuel-Efficient Solution for Heating Challenges in the Cold Climate of Kashmir **Mr. Mushtaq Ahmad Buhroo, Baramulla**

Innovation: Modified Bukhari is an improved room-heating system designed to provide higher heat output with reduced fuel consumption. It has horizontally placed cylindrical combustion chamber and modified heat-retaining surface that helps prolonging heat retention. The innovation is an economical and efficient heating solution for households using firewood as fuel.



Mechanized Solution to the Challenges of Manual Walnut Peeling **Mr. Mohd. Shafi Ahanger, Anantnag**

Innovation: Walnut Peeling Machine is a labour-saving machine developed to make the peeling of green walnuts faster, efficient, hygienic and cost-effective. Unlike manual peeling, which is tedious, time-consuming and can cause discomfort and skin damage to workers' hands, the machine mechanizes the peeling process while reducing physical drudgery.



Precision Solution for Mobile Repair Challenges in Local Service Workshops **Mr. Mohd. Shafi Ahanger, Anantnag**

Innovation: Charger connector or jack removing & fixing tool is simple, cost-effective device developed to make mobile phone charging jack removal and replacement easier and safer. The tool can reduce manual effort, save time, and minimize the risk of damage to the motherboard and surrounding components. Its practical utility makes it relevant for mobile phone repair technicians.



Innovative Solution to the Challenges of Traditional Copper Steamers in Kashmir **Mr. Manzoor Ahmad Najar, Pulwama**

Innovation: Modified Electric/ Firewood/ Gas Powered Steel Steamer is a durable, hygienic and cost-effective multi-fuel stainless-steel steamer developed as an alternative to conventional copper steamers, which are prone to corrosion, weak reservoir bodies, poor water taste and high maintenance costs. The innovation uses a food-grade SS304 reservoir and can operate on electricity, wood or LPG.



Solution to the Challenge of Load Transport and Unloading in Hilly Terrain **Mr. Shabir Ahmad Malik, Kulgam**

Innovation: Mini Load Carrier with Multi-directional Unloading is a low-cost, labour-saving device developed to make the transportation and unloading of materials easier and safer. Unlike conventional mini load carriers, it has specially hinged load body allowing the user to position it at the desired vertical or horizontal angle and unload the material quickly in the required direction without having to tilt the entire carrier thus reducing physical effort and improving user safety.



Handheld Solution for Faster Grass Collection and Binding

Mr. Shahid Ul Islam, Pulwama

Innovation: Grass Collecting/ Binding Machine is a simple, eco-friendly and cost-effective battery-operated grass collecting and binding device having binding hook fitted to the chuck of a drill, which rotates to collect and form cut grass into compact spiral lumps of the required length. The tool enables local farmers to collect and bind grass efficiently, reducing labour costs and saving time.



Modified Solution for Easy and Precise Lawn Edge Trimming

Mr. Muneeb Ahmad Sheergojri, Anantag

Innovation: Improved Lawnmower is a modified lawnmower with an integrated edge trimmer developed to overcome the difficulty of cutting grass along intricate edges such as flower beds, sidewalks, trees, shrubs and other structures, where conventional lawnmowers cannot reach effectively.



Chromatography-Based Solution for Saffron Authenticity Testing

Ms. Ridhakshi Ganjoo, Pulwama

Innovation: Saffron Authenticity Device is an idea to develop a pen-type saffron authenticity testing device developed to provide a simple, portable and scientific method for identifying genuine saffron and addressing the problem of adulterated or artificially dyed saffron in the market.

Who Can Apply?

Anyone who has developed an innovative solution without formal science or technical education such as farmers, artisans, students, diploma holders, self-employed individuals or local innovators from rural and urban areas.



SCAN HERE

Last date Apply
10 January, 2027

Know someone in your village, town or region who has developed an innovative tool, process or or practical solution that is solving a real-world problem?

CONTACT

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