



# Science and Heritage Research Initiative (SHRI)

## Call for Concept Notes



The world is adopting low-emission practices to achieve the target of net zero by 2050. India, an agriculture-based economy, needs to adopt net zero food systems that will require wide-scale adoption of new technologies and changes in meat and dairy consumption without compromising on nutritional value. A more diverse set of practices, and innovative research, including diet shifts and new-horizon technologies, are vital for the country to fulfil the nutritional requirement of the people.

The year 2023 has been declared the “International Year of Millets” by the U.N. General Assembly. India, the world's largest producer of millet, has great potential to become epicentre of millet protein-based meat, egg and dairy smart protein products. The Department of Science and Technology (DST), Government of India has taken the initiative to support research and outreach activities on millets and invites concept notes to create an Academia-Industry-Social interface to establish India as a global supplier and market leader to the plant-based meat/egg/dairy sector with a focus on millet, to revitalise this traditional crop.

### The concept notes are invited in the following areas



#### Capturing Traditional Knowledge System:

- Documentation of recipes available with local communities across the country in digitalised formats.
- Creation of a scientific monograph of millets 'Indian Millet Atlas' indicating location, cultivar and product/recipes.



#### Research & Development:

- Novel tools & techniques for net zero primary & secondary processing.
- Methods to enhance protein extraction from millets.
- Improve functionality, nutrient bioavailability, blending, palatability & shelf-life.
- Standardised food, feed, fodder or forage products from millets/millet waste.
- Scientific validation of the traditional recipes of millets in terms of health attributes.
- Functional products/supplements from millet.



#### Infrastructure Creation\*:

- Community-based Technology Resource Centre (CTRC): at high-priority locations to maintain the value chain and optimum quality of millets.
- State of Art food testing labs for products developed by Start-ups/young entrepreneurs/NGOs/industries.

**Please Note:** As this Call is focused on millet, only the organisations/PI/institutes previously engaged in millet-based research and product development are eligible

#### Contact Person:

**Dr Rashmi Sharma**

Scientist-F & Head SHRI Cell

Department of Science and Technology,

Technology Bhawan, New Mehrauli Road, New Delhi-110016

Con.: 011 26590541, Email: shri-dst@gov.in

*\*For details please see the Submission Guidelines and Format*

*The last date for Submission of Concept Note is 31<sup>st</sup> January 2023 at*

*shri-dst@gov.in*

