

Karnataka State Council of Science and Technology

Indian Institute of Science Campus, Bengaluru 560012

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EXPRESSIONS OF INTEREST (EOI)

FOR

Selection of

**manufacturers or suppliers of food processing equipment
inclusive of installation at the site.**

Project titled

**“Establishing SHGs/FPOs Enterprises To Address
Malnutrition And Provide Rural Livelihoods In Yadgir
District, Karnataka”**

Karnataka State Council for Science and Technology (KSCST), an autonomous R&D organization under the Department of Science & Technology, Government of Karnataka, invites Expression of Interest from the interested manufacturers or suppliers of food processing equipment.

For overview of the project, scope, pre-qualification criteria, terms and conditions, etc., please visit our website <http://www.kscst.karnataka.gov.in> or <https://www.kscst.org.in>.

Interested manufacturers or suppliers may furnish their Expression of Interest with all the necessary documents in a sealed cover along with the covering letter to the following address on or before **Monday, 20-02-2023**, either through email or hard copies:

Mr. H. Hemanth Kumar, Executive Secretary,
Karnataka State Council for Science and Technology,
Indian Institute of Science campus,
Bengaluru-560 012, Phone: 080-23341652 Email: office.kscst@iisc.ac.in.

Queries if any, may be referred in writing to the Executive Secretary, at the above-mentioned address or at E-mail: office.kscst@iisc.ac.in.

1. GOALS OF THIS EXPRESSION OF INTEREST(EOI)

The objective of this EOI is to solicit proposals from the interested suppliers or manufacturers of food processing equipment including of installation at the site, maintenance of equipment during warranty, operational training on extruder equipment. The equipment and its utility under the project will be assessed and based on the requirement, KSCST invites technical and financial bids as per KSCST's procurement procedure.

2. EOI ISSUING AUTHORITY

This Expression of Interest (Eoi) is issued by the Karnataka State Council for Science and Technology (KSCST).

3. TENTATIVE CALENDAR OF EVENTS

The following table provides important timelines for completion of EOI:

Sl. No.	Details	Date
a.	Release of Expression of Interest (Eoi) advertisement in newspaper.	08-02-2023
b.	Last date for submission of detailed technical specifications, product output, power requirement, space occupancy, etc.	25-02-2023
c.	Discussions with firms	28-02-2023

Details about the Project:

- India, one of the largest fruit and vegetable producers in the world loses 20-30% production due to spoilage and post-harvest losses because of lack of primary processing facilities, fuel-efficient post-harvest technology and hygienic storage facilities. India also has high rates of undernutrition, anemia and micronutrient deficiency among children and women, the Indian adolescent girl being the most undernourished in the world. 30% babies are born of low birth weight (LBW) and 1/3 women have low body mass index. Infant, child and maternal mortality rates are extremely high at 41, 50, (NFHS 4, 2015-16) and 122 (SRS, 2015-17) respectively. Adolescent and maternal undernutrition and LBW babies are intergenerationally linked. LBW and undernutrition of children cause at least 60% infant mortality. Undernutrition and anemia among women are major causes of maternal mortality.
- The Strategy Paper of the Karnataka Comprehensive Nutrition Mission advocates linkages between agriculture and nutrition at the village level to address malnutrition in the community. This linkage can also provide Self Help Groups / Food Processing Organisations (SHGs/FPOs) with opportunities for Innovative Farm Based Enterprises, and increase their livelihoods and incomes, and address the high levels of undernutrition and micronutrient deficiency in the community.
- This problem is prevalent all over the country, and is well documented by several surveys conducted by government and Industrial organizations like FICCI. It is important to solve it to prevent wastage of valuable and nutritious horticulture produce, which is valued at Rs 40811 crores according to Government sources (Press Information Bureau Government of

India, Ministry of Food Processing Industries, 09 August, 2016). This will also provide nutritious horticulture produce to the community, prevent and address malnutrition and increase earnings of rural families, and provide livelihoods and increased income to SHG women and FPOs.

7. India continues to lose valuable agricultural and horticultural produce through wastage in the absence of supply chains from the harvest till the sale. So far, the Government has been implementing schemes of food parks and cold chains, but they have not been able to cover many parts of India especially the most backward. Cold chains are energy and capital intensive; hence their coverage will take a long time to reach the small and marginal farmers.
8. In the absence of primary processing facilities for preservation or processing, it is to be expected that the wastage of Horticulture produce will continue unless simpler methods using alternative source of energy and more decentralized operations at the grassroots for processing and preserving the Horticulture produce are introduced.
9. To fill this technology gap, it is proposed that on a pilot basis the Aspirational District of Yadgir, which according to our information has not a single food processing unit, would start through their SHGs and attempt to save much of the Horticulture produce which would have gone waste, and also would not be energy dependent but would use simple intensive and environmental friendly energy. This would fill the huge technology gap which is prevailing in our country especially in the most backward and forest areas, and prevent wastage.

10. Specific Objectives of the Project:

- a. Provide livelihoods to SHGs/FPOs through Innovative Farm Based Enterprises, Value Chains and Market Linkages.
- b. Address malnutrition in the community and provide nutrition security and improved nutritional status of the rural poor during lean season.

- c. Prevent wastage of fruits and vegetables, reduce losses during glut season, arrest distress sales and reduce market risks.
- d. Provide cash income to the SHGs/FPOs and contribute to their economic empowerment.
- e. Build capacity of FPOs/SHGs, improve the quality of life of women through value added income generation and marketing of nutritive horticultural products preserved/dehydrated/processed through fuel efficient, green energy.
- f. The food processing unit aims to dehydrate fruit and vegetables and blend this with other nutrient rich millets, pulses, oil seeds and micro nutrients etc, to form a fortified food for Infants, Adolescents, Adults and Daily diet.
- g. The project is in the take off stage and we are in the position of procurement of suitable equipment for the purpose, and the list of requirements of food processing equipment are as follows:

	Our requirement	Capacity	Power	Dimension	No.
1	Slicer - (for Tomato & Banana)	50 to 100 Kg/hr			3
2	Grain Destoner	50 to 100 Kg/hr			1
3	Pulveriser	50 to 100 Kg/hr			1
4	Mixer Blender	50 Kg/hr			1
5	Sieve – (100-150 micron)	50Kg/hr			1
6	Extruder - (Twin screw type suitable to get expanded powder materials and solid like Kurkure snack)	50 kg/hr			1
7	Packing machine: to pack powder and solids output for 10gm 20gm, 500 gm capacity with Nitrogen flushing facility				1

11. Project Beneficiaries:

Project will benefit people, mainly women, from SC and ST community including farmers and landless people. It will also cater to SHGs/FPOs in providing livelihood, economic empowerment and address malnutrition in the community.

12. CONDITION UNDER WHICH EOI IS ISSUED:

The EOI is not an offer and is issued with no commitment. KSCST reserves the right to withdraw EOI and or vary any part thereof at any stage. KSCST further reserves the right to accept the equipment specifications, design, etc. based on the requirement in the project or reject specifications offered. KSCST reserves the right to withdraw this EOI if KSCST determines that such action is in its best interest. Timing and sequence of events resulting from this EOI shall ultimately be determined by KSCST. Each manufacturer / supplier shall submit only one proposal.

13. EVALUATION OF PRE-QUALIFICATION PROPOSAL

The suppliers' Proposal will be evaluated as per the requirements in the project. The suppliers are required to submit all required documents in support of the EOI (e.g. detailed technical specification with power capacity, design, space occupancy, transportation, Guarantee & warranty, maintenance, operational training in case of extruder, etc.) as required for evaluation.

14. LANGUAGE OF PROPOSALS

The proposal and all correspondence and documents shall be written in English

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