

Proceeding of meeting of Screening Committee to screen proposals/applications under startup applications under “Chief Minister’s Startup/Innovation Projects/New Industries Scheme” held on 27.11.2017 under the Chairmanship of Director of Research.

Following were present in the meeting:-

1. Dr JN Sharma, Director of Research, Dr YSP University of Horticulture & Forestry, Nauni, Solan.	Chairman
2. Sh. Manoj Chauhan, GM, DIC, Solan, Nominee of Director Industries, Govt. of Himachal Pradesh.	Member
3. Ms Neha Chauhan, Manager, DIC, Solan.	Member
4. Ms Anju Dhiman, Prof. & Head, Deptt. of FST, UHF, Nauni, Solan.	Member
5. Dr Kulwant Rai Sharma, Prof. & Head, Deptt. of Forest Product, UHF, Nauni, Solan.	Member
6. Dr Devina Vaidya, Principal Scientist cum Mentor, Deptt. of FST UHF, Nauni, Solan.	Member
7. Dr Manoj Kumar Vaidya, Joint Director Research cum Nodal Officer Incubation Centre, Directorate of Research, UHF, Nauni, Solan.	Member Secretary

Applicants of Innovation/Startup scheme invited to present their proposals

1. Sh. Hansraj, Tehsil Sundarnagar, Distt. Mandi.	Startup Project
2. Ms. Swati, Deptt. of FST, UHF, Nauni, Solan.	Innovation Project
3. Representative of Ms Nilakshi Chauhan, Deptt. of FST, UHF.	Innovation Project
4. Mr. Abhishek Thakur, Deptt. of FST, UHF, Nauni, Solan	Innovation Project

At the outset the Director of Research-cum-Chairman of the Screening Committee welcome all the committee members and applicants of Innovation Project/Stratup Project who were invited for presentation of their proposals before the screening committee to evaluate the feasibility of their projects. Thereafter, Nodal Officer of Incubation Centre apprised the Screening Committee about proposals received and also presented the details of each proposal.

It was apprised that, in all, seven startup applications were received by this Incubation Centre from Director of Industries, Govt. of Himachal Pradesh, Shimla under “Chief Minister’s Startup/Innovation Projects/New Industries Scheme” which were approved by their

Screening Committee in its 4th meeting held on 12.09.2017 for providing assistance through the incubator set up. The details of proposals are as under:-

Sr. No.	Name of innovator	Nature of innovation project
1.	Ms Nitakshi Chauhan, Deptt. of FST, UHF, Nauni, Solan.	Product process
2.	Mr Abhishek Thakur, Deptt. of FST, UHF, Nauni, Solan.	Product process
3.	Ms Swati Sharma, Deptt. of FST, UHF, Nauni, Solan.	Product process
4.	Mr Hans Raj & Mr Rajul Gupta, Tehsil Sundarnagar, Distt. Mandi	Manufacturing/ processing
5.	Dev Dhara Yuva Jagriti Sangathan, Sultanpur, Kullu	Agriculture/Horticulture/Education/ Health/Sports.
6.	Mr Rajesh Vashishat, Ludhiana	Production of Bamboo and flex produce fibre for textile industries.
7.	Mr Amit Sharma, Nahan, Sirmour.	Promoting tourism and management based

- I. It was apprised that the Director Industries vide letter No.Ind.Dev.Start-up/Incubators/Dr YS Parmar dated 18.07.2017 had sponsored names of Dev Dhara Yuva Jagriti Sangathan, but the proprietor / representative of the said organization has not provided any contact details and has also not make any contact with this Centre. Even it has also not submitted any project proposal for evaluation. In view of this, it was approved to reject the application of the said incubate.
- II. It was further apprised that the applicant at Sr. No.7 above has requested to this Incubation Centre to consider his proposal which was earlier assigned to the NIT, Hamirpur. The members thoroughly examined the proposal and it was found that proposal under reference does not pertain to this incubation Centre. In view of title and objectives of the project proposal, it was also decided to reject the same.
- III. It was apprised that no proposal was received from Mr Rajesh Vashishat at Sr. No.6. He also was not present before the screening committee with his proposal. Therefore the members approved to consider his proposal in the next meeting if he submits the same.
- IV. With the approval of chair, four applicants present in meeting were asked to present their proposals on innovation projects/startup project through PPT. The screening committee deliberated thoroughly on each proposal and also critically evaluated the same for further submission to the high power committee in the Directorate of Industries, Govt. of Himachal Pradesh.
- V. The first presentation was of Mr Abhishek Thakur, who has submitted his proposal under innovation project. The title of his proposal was Isolation, characterization and application of protein isolate from apricot press cake. The significant expected outcome of his proposal is that wild apricot kernel oil which is commercially manufactured and press cake left is wasted. This press cake from bitter kernel is rich source of proteins and HCN content. After oil extraction from apricot kernels, around 60 per cent of remaining residue called press cake contains 50 per cent proteins, 4.7-4.9 per cent moisture, 7.0-10.8 per cent crude fibre

and 35-44 per cent crude protein thus press cake can also be utilized as protein source after its treatment for removal of bitter component. After extraction of oil, press cake contains bitter and toxic compounds HCN, therefore, detoxification of isolates is important. Increasing demand for newer and higher sources of protein that can be incorporated to different functional food products is increasing worldwide. So protein isolates from apricot press cake can be used as suitable ingredient for development of protein enriched novel products as mayonnaise, health drinks, toppings, beverages, whipped cream, ice cream, chiffon desserts, salad dressing and sausage thus the major concern of the researchers is for the development of cost effective value added products, which can be further taken up as an start up industry.

The members deliberated thoroughly on the proposal and it was approved to recommend the same to be considered by the high power committee for approval under “Chief Minister’s Startup/Innovation Projects/New Industries Scheme” keeping in view the importance and potential of the proposal.

VI. Second presentation was given by Ms Swati Sharma, on her proposal under innovation project. The title of the project was Hybrid drying of major pome fruits of Himachal Pradesh. Hybrid drying/Combination drying techniques are becoming general or familiar now a day since the combined technology receives the benefits of individual process and provides the synergistic effect during the heat and mass transfer process within a product. This effect leads to a better quality and stable dried product, increased energy saving, reduced drying time, and increased drying efficiency and retention of nutrients. The technology so developed will be of immense scope for large scale industrial production.

The members discussed the objectives of the proposal threadbare and it was approved to recommend the same to be considered by the high power committee for approval under “Chief Minister’s Startup/Innovation Projects/New Industries Scheme” in view of basis of nature and scope of the project.

VII. Third presentation was also under innovation project submitted by Ms Nilakshi Chauhan. The title of proposal was “Development and evaluation of underutilized grains for development of novel products”. Most commonly grown underutilized grains are buckwheat, red rice, kodomillet, rice bean and amaranth are taken for the innovation project. Now a days, peoples are becoming health conscious and these grains have potential to fulfil their requirements by posses both nutraceutical and nutritional properties. So there is great scope for utilization of these underutilized grains for the development of processed products. Keeping the demand of nutritionally enriched convenient food, present project has been under taken with the objectives to develop and evaluate the composite flour from underutilized grains, to develop the extruded and baked products from composite flour and to evaluate the quality of extruded and baked products. The prototype for the same has been developed by the proposer for further pilot testing of these products.

Keeping in view the commercial importance and potential of the proposal, the screening committee recommended the same to be considered by the high power committee for approval under “Chief Minister’s Startup/Innovation Projects/New Industries Scheme”.

VIII. The fourth proposal “Development and manufacturing of Extruded and functional food from wheat” was presented by the applicant Mr Hans Raj, from Sundernagar, Mandi which is based on manufacturing and processing. The presentation shows the improvement in the

traditionally produced wheat extract product **SEERA** by mechanization of process by reducing the process time, reducing postharvest losses in wheat during storage and to develop different nutritionally enriched value added products like functional foods and extruded products from seera and its by products and also create possibilities of self employment and employment generation. The products developed by him in consultation with department of Food Science and Technology in this University need further evaluation of these products.

The committee find the project as a viable project to be undertaken as startup new industry scheme and recommended the same for approval by the High Power Committee.

The screening committee recommend above mentioned four proposals to be considered by the high power committee constituted in the Directorate of Industries, Government of Himachal Pradesh under "Chief Minister's Startup/Innovation Projects/New Industries Scheme".

The meeting ended with vote of thanks to the chair.

 (Manoj Chauhan) GM, DIC, Solan <i>General Manager</i> <i>District Industries Centre</i> , <i>SOLAN (H.P.)</i>	 (Manoj Kumar Vaidya) Jt.Dir.Res.-cum-Nodal Officer, Incubation Centre	 (Devina Vaidya) Pr.Scientist FST	 (Anju Dhiman) Prof. & Head FST
 (Kulwant Rai Sharma) Prof. & Head, FP	 (JN Sharma) Director of Research-cum- Chairman, Incubation Centre <i>Director of Research</i> <i>Dr. Y S Parmar University of</i> <i>Horticulture & Forestry, Nauni (HP)</i>		