

A Workshop cum Exhibition on Grassroots Innovations
Organized Jointly by GIAN-North, Jaipur, Indian Institute of Petroleum, Dehradun
and National Innovation Foundation (NIF), Ahmedabad
July 23, 2007, IIP, Dehradun

Background

There has been an agreement between NIF and CSIR according to which NIF would share with CSIR, the innovations and traditional knowledge it has in its database for promotion of the product/process/ knowledge by carrying on further R&D activity at the respective laboratories in order to add value to it. As a result selected innovations and traditional knowledge are shared with CSIR and further work has been initiated in CDRI, Lucknow, IIP Dehradun, CIAE Bhopal, CIMAP, Lucknow and IHBT, Palampur.

IIP Dehradun is working on following innovations related to petroleum field and a workshop was organized in progress to this work wherein the innovators of these innovations had direct interaction with concerned scientists and also participated in the initials testing process.

As the participants of the workshop were innovators, officials from GIAN & NIF and scientists and technicians from IIP, the opportunity was also utilized to invite the people from state government, related departments, organizations working at grassroots and share our activities with them to explore the possibility of working together to support the grassroots innovations in the state.

The major objectives of the workshop were:

- To demonstrate the selected petroleum related grassroots innovations before the concerned scientists of IIP for further testing and evaluation.
- To share the experience & views of the innovators and scouts/ collaborators with the participants
- To sensitize the local machinery of Uttarakhand which includes NGOs, NGIs, Scientists, officials and other related people about the activities and mission of this organization
- To share examples of the grassroots innovations
- To mobilize local resources to contribute in this mission

Following innovations are selected for testing and value addition at IIP, Dehradun and were also showcased in the exhibition.

| SNo. | Innovator | Place | Innovation |
|------|-------------------------------|---------|---------------------------------|
| 1 | Sh. Niranjana Prasad Sharma | UP | Kero-Water-Gas Stove |
| 2 | Sh. Sravesh Sharma | UP | Dosa Burner |
| 3 | Sh. Agastya Narayan Shukla | Delhi | Safety Valve for stoves |
| 4 | Sh. Sameer-ul-Hassan Liyakati | UP | Pumpless Pressure Stove |
| 5 | Sh. Bharat Agrawat | Gujarat | Multi-Level-Modified Wood Stove |

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|---|-----------------------------|---------|-------------------------------|
| | | | |
| 6 | Late Shri Saffrudin kazi | Gujarat | Kerogas Stove |
| 7 | Sh. Uttam Shambhubhai Patil | Gujarat | Match Box using natural Fiber |
| 8 | Sh. T.J. Joes | Kerala | Multipurpose Stove |

Proceedings

The workshop begun with a warm welcome by Dr. Madhukar Omkarnath Garg, Director, IIP. He showed his gratitude to NIF and GIAN-N for having organized such an interactive meet at IIP campus and specially thanked Sh. Inderjit Khanna, Chairman, GIAN-North for honoring the occasion by accepting to be the Chief Guest of the workshop. He gave a brief introduction about IIP and its activities and a background about the CSIR - NIF agreement for supporting grassroots innovations. In his speech, Dr. Garg made a remark that this is one of its kind of workshop hosted at IIP in so many years where formal and informal scientists are participating together and discussing about the technical innovations.

Mr. Inderjit Khanna gave a brief about the achievements of NIF and GIANS and emphasized on the strength of networking in bringing forward the creative work of grassroots innovators. He explained the objectives of holding the workshop at Dehradun and the role of such institutions in nurturing them to viable products and sustainable enterprises.

Smt. Vibha Puri Das, Principal Secretary and Commissioner, FRDC, Govt. of Uttrakhand thanked NIF and GIAN-N for documenting and giving exposure to grassroots innovations in Uttrakhand as this would motivate the innovators and NGOs of Uttrakhand to bring forward the work of people of this region. She mentioned that need based innovations is an ongoing process but every time such innovations do not get the attentions of people who can really help them in economic generation. She emphasized that in Uttrakhand, Energy conservation, bio-diversity conservation, water conservation and process of getting high yield in agriculture are a few major thrust areas but it is required to document these practices to bring them forward. She also suggested that there is a need for recognizing the innovative processes and practices along with the technical innovations as there are enormous innovative practices associated with the livelihood of the people of Uttrakhand. She also mentioned about an Innovation Promotion Program Fund with USCST with an annual budget of Rs. 5 L setup by the state government to support the innovations in Uttrakhand. USCST is already working in taking science to grassroots but now efforts are needed to link the innovations at grassroots with the formal science and such workshop would surely help this activity. She also make a special mention about a traditional *Padyatra* carried out by an organization called *PAHAD* every ten years for the past forty years for exchanging the knowledge on practices from various fields and documenting the new practices and innovations and bring them before the society through their news letters. She emphasized the need of walker researchers who could document all kinds of innovations and TKs spread all over our society and appealed to the representatives of various departments and NGOs to help promoting this mission in the state.

Dr. Rajendra Dobhal, Director, USCST, gave a brief introduction about the activities of USCST and shared a few examples of their work. He emphasized on the need of at least two trained people at block level to document the TK and innovations. USCST has also provided a link at their website for registering innovations online. He also gave a brief about the IPR issues and about how to protect the innovations. He mentioned that USCST has started organizing innovation fair in Uttarakhand on October 12 (Innovation Day) in which innovators from various disciplines showcases their work. In a later discussion with CIM, GIAN-North he agreed to nominate selected grassroots innovation, who would participate in this fair, in NIF's National Competition on Grassroots Innovations. He also requested the demonstration of walnut cracker device in Uttarakhand as there would be a demand of such device.

Prof. R.N. Singhal, Principal Coordinator, RuTAG, gave brief about their activities and shared a few examples of their projects. RuTAG support value addition and innovation promotion by various means. In a separate a discussion with Prof. Singhal, CIM, GIAN-N discussed about a few innovations from NIF database and Prof. Singhal identified following four innovations to work together on the mutually identified areas.

1. Manual Washing Machine, Kerela
2. Manual Milking Machine, Karnataka
3. Lemon Cutter (manual version-may need to be value added)
4. Jute Max Box

Prof. Singhal also referred to a specific fiber found in Uttarakhand which may also be used in match box/ stick. Walnut cracker is another innovation which may be of their interest for applications in Uttarakhand.

Dr. Umesh Jaiswal explained the role of IIP in testing these innovations and described various parameters which would be tested and taken care during the complete testing process.

Sh. Rajeev Singhal, CIM, GIAN-North gave a presentation on NIF and GIAN activities and shared some examples of grassroots innovations.

Sh. Sundaram Verma our scout and collaborators for Rajasthan shared his experiences in scouting these innovators and the problems they encountered in the process.

Sh. Kamaljit Miglani, scout and collaborators for Haryana who has also worked for about two years in Uttarakhand for scouting and documentation of innovations shared his experience of scouting. He mentioned about a weekly *Sodhyatra* recently initiated by him. He with his associates walk every Sunday for the whole day in the area where he is on that particular day without any pre schedule and interact with the people share his experience. The object of this kind of walking is not scouting of innovations but scouting happens automatically.

The innovators whose innovations are under evaluation at IIP and a few more innovators shared their experiences about the genesis of their innovations and development process they adopted.

A poster and prototype exhibition was also setup during the workshop wherein innovators displayed their prototypes and explained their work to the scientists,

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government officials and representative of various organizations. About 35 posters of innovations from all over India and activities of NIF and GIAN were showcased. Innovators had a good interaction with the participants in the exhibition.

The workshop was followed by a two days interaction of the innovators with the concerned scientists of IIP and their participation in the testing process at their laboratories.

Media personals were also invited from different news papers who gave good coverage to the event. Clippings of the coverage are enclosed.

A list of all the participants is also enclosed for reference.

Rajeev Singhal
CIM, GIAN-North

List of Participants**Innovators**

| S. N. | Name | State |
|-------|-----------------------------------------------------------------|-------------|
| 1 | Sh. Bharat Agrawat | Gujarat |
| 2 | Sh. Faquruddin Kazi, representative of Late Shri Saffrudin kazi | Maharashtra |
| 3 | Sh. Niranjan Prasad Sharma | UP |
| 4 | Sh. Sarvesh Kumar Sharma, | UP |
| 5 | Sh. Agastya Naraian Shukla | Delhi |
| 6 | Sh. Rai Singh Dhaiya | Rajasthan |
| 7 | Sh. Madanlal Kumawat | Rajasthan |
| 8 | Sh. Suresh Chandra Dabral | Uttrakhand |

Scout & Collaborator

| S. N. | Name | State |
|-------|----------------------|-----------|
| 9 | Sh. Sundaram Verma | Rajasthan |
| 10 | Sh. Kamaljit Miglani | Haryana |

Special Invitees

| S. N. | Name | State |
|-------|--------------------------------------------------|------------|
| 11 | Sh. Inderjit Khanna, Chairperson, GIAN-N | Rajasthan |
| 12 | Prof. R.N. Singhal, Principal Coordinator, RuTAG | Uttrakhand |
| 13 | Dr. Madhukar Omkarnath Garg, Director, IIP | Uttrakhand |
| 14 | Ms. Vibha Puri Das, Principal Secretary, FRDC | Uttrakhand |
| 15 | Dr. Rajandra Dobhal, Director, USCST | Uttrakhand |
| 16 | Sh. Sandeep Sharma, NC-IT, NIF | Gujarat |

NGOs/ Department

| S. N. | Name | State/ Place |
|-------|-----------------------------------------------------|-------------------------|
| 17 | Sh. G.S. Chauhan GRASS | Almora (Uttarakhand) |
| 18 | Ku. Manju, Upadhya GRASS | Almora (Uttarakhand) |
| 19 | Dr. Ravish Joshi, Chief Executive Officer, KAGAS | Pithoragarh, Uttarkhand |
| 20 | Sh. Avtar Singh Negi, MOUNT VALLEY DEV. ASSOCIATION | Tehri Garhwal |
| 21 | Sh. D. S. Pundeer , HIMAD | Chamoli (Uttarakhand) |
| 22 | Sh. Krishna , Jakheshwar Shikshan Sansthan (JSS) | Chamoli (Uttarakhand) |
| 23 | Shri N. D. Jayal, The Himalaya Trust | Dehra Dun |
| 24 | Sh. H. S. Nayal , Hayat Ratna Vikas Sewa Sansthan | Haldwani, |

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| 25 | Mr. M. C. Kukreti , RUTAG | Dehradun |
| 26 | Mr. A. S. Raturi , RUTAG | Dehradun |
| 27 | Sh. Vijay Poddar Treasurer, Uttranchal Bio-Fuel Board | Dehradun |
| 28 | Sh. Nupendra Chanhan, Scientist, HRDI | Gopeshwar |
| 29 | Dr. R. S. Adhikari, Director, Uttranchal Technical Board | Dehradun |
| 30 | Mrs. Vaneeta Shah, Uttranchal Commodity Board | Dehradun |
| 31 | Dr. M. B. Tamang, Tea Expert & Scientist, Uttarakhand Tea Dev. Board | Dehradun |
| 32 | Smt. Jyotsna Sitling, PD-Ajiveeka Livelihood Project | Dehradun |

Officers and Scientists from IIP, Dehradun

| S. N. | Name | |
|-------|-----------------------------------|--|
| 33 | Dr. M. O. Garg | |
| 34 | Dr. A. Dutta | |
| 35 | Shri G. S. Dang | |
| 36 | Dr. H. B. Goyal | |
| 37 | Dr. A. K. Bhatnagar | |
| 38 | Dr. M. R. Tyagi | |
| 39 | Shri V. K. Verma | |
| 40 | Shri U. K. Jaiswal | |
| 41 | Dr. S. N. Sharma & RPBD Staff | |
| 42 | Shri V. S. Saini | |
| 43 | Dr. Y. K. Sharma | |
| 44 | Shri Santosh | |
| 45 | Dr. R. H. Khan | |
| 46 | Shri Nishan Singh | |
| 47 | Dr. S. K. Khanna | |
| 48 | Shri Tulsi Ram | |
| 49 | Shri K. P. S. Yadav | |
| 50 | Shri Sudhanshu Gupta | |
| 51 | Shri Hakim Singh | |
| 52 | Dr. H. U. Khan | |
| 53 | Shri P. N. Bhambi (Ex. Head IDCD) | |
| 54 | Shri A. K. Rajdan | |
| 55 | Dr. Dinesh Chamola | |
| 56 | Capt. R. J. Simon | |
| 57 | Shri Sanjay Kala | |

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|----|-------------------|--|
| 58 | Shri Mukesh Jain | |
| 59 | Shri A. C. Garola | |
| 60 | Shri G. P. Sharma | |
| 61 | Shri Pradeep | |
| 62 | Sh. S. Rawat | |
| 63 | Sh. T Baga | |

GIAN-N Staff

| S. N. | Name | Designation |
|--------------|----------------|---------------------------------------|
| 64 | Rajeev Singhal | Chief Innovation Manager |
| 65 | Rajeev Sharma | Office Assistant Cum Accountant |

Glimpse of the workshop

