

Interventions in HRD

NCCD Conclave

State Nodal Officers for Cold-chain Development

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New Delhi

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Trainings 2013-14

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- ❖ Institutional Capacity building for state officials and stakeholders from private industry
 - **Hands-on Training:** three trainings on cold chain management and technical skill development held at Danfoss center with **curriculum designed by NCCD**. Total 42 participants were trained including 20 Govt officers from various states.
 - **Skill development for Ripening Chamber operations:** two day training program developed and held in three cities (Hyderabad, Warangal and Vijayawada) for operators of Ripening chambers in order to enhance employability and entrepreneurship. Total 98 trainees, 75 provided certificates.



Awareness / Training Programs on Fruit Ripening Chambers

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Highlights of the training

- ❖ NCCD received requests from Ripening Chamber (RC) owners to conduct, skill up-gradation of ripening facilities operators.
- ❖ Social relevance of the training attracted media attention and support from Divisional Public Relations Officer.
- ❖ Positive feedback received from participants. The training created awareness of ethylene based ripening chambers and exposed the participants to RC projects & funding options. A visit to a RC was part of the program



Snapshot of Live Training Centre

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Evaluation and feedback

- ❖ Participants reported enhanced understanding on post-harvest management and basics of refrigeration technologies after the training.
- ❖ Experience of live ammonia refrigeration, flake ice machine, Cold rooms was appreciated
- ❖ The training was evaluated positively and a series of 12 trainings are planned in 2014-15
- ❖ Nominations for next batches are invited from NCCD members and States.



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Reefer Truck Drivers Awareness Program

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Events 2013-14

❄️ MoU signed between NCCD and Cemafricaid (3/4/2013)

- India (NCCD) invited as Guest of Honour at IIR International Conference on Sustainability in Cold Chain
- First three training programs targeting India specific concerns is arranged with Cemafricaid from June 2014.
- Cemafricaid President is expected to visit Delhi later period this year for developing further action plans.



Events 2013-14

- ❖ Recommendations for Refrigerated transport issued in April 2013.
 - Refrigerated Transportation Conclave at IHC
 - Conclave held on 7.3.2013 with 120 participants.
 - Focussed deliberations on bottlenecks faced by the refrigerated transport sector.
- ❖ Workshops on cold-chain were organized in three North East States (Meghalaya, Arunachal Pradesh and Assam)
- ❖ Follow up study tour to Meghalaya by Committee on Supply Chain & Logistics between (1-14 April 2013)
 - Study involved transport and logistical challenges of farmers in the state growing vegetables, fruits, flowers. Report published in Citizens Report (July 2013, Meghalaya Basin Development Authority).



Meetings 2013-14

- ❖ Held 91 Consultative meeting with Industry stakeholders, national and international at Delhi/NCCD office.
 - Meetings were held to advice on policy matters, technology needs, investment interests, and others.
- ❖ Advisory interactions with various government departments and agencies(DRDO, MNRE, DEA, NMBA, FHEL, Govt of J&K)
- ❖ Authored and printed Challenges & bottlenecks in cold chain with recommendations.
- ❖ Collaborated conclusively with Govt of France for their financial contribution to support technical training programs developed by NCCD, execution by Cemafrica. Trainings schedule under process
- ❖ Reefer Vehicle Redressal Call-center (RVRC)
 - IT system to provide toll free access to reefer transporters/operators for fast track recording of complaint. Concept level and work to develop collaboration underway

Meetings 2013-14

- ❖ Supported Investment awareness discussions (National and International)- Conferences and Investment Round Tables- 5 Asian Countries, PHD Conference on Cold chain financing, PPP models, FDI etc.
- ❖ Workshops: Institutional capacity building (NABARD, States etc.) domestic and international (APO-NPC-NCCD)



Conferences 2013-14

- ❖ EFC -Recommendations on XII Plan period
 - Contributing to MIDH EFC notes and policy formulations
 - Development of cold chain infrastructure is given special thrust under MIDH during the XII Plan.
- ❖ National Horticulture Conference
 - The PPP initiative was attended by five of NCCD Participants.
- ❖ Farm to Retail demo and workshop at Krishi Vasant in Nagpur
- ❖ MIDH Conference at Pusa to introduce scheme components.



Events 2013-14

- ❖ Launch of NCCD Newsletter, to regularly disseminate cold-chain information.
- ❖ SAARC development fund (SDF) Social window—proposal for 3 years pilot to open supply link of fresh produce movement submitted - pending approval from SDF Board.
- ❖ Joint working arrangement with CII Task Force on Technical Specification & Standards.
 - CII' task force on cold-chain will function to revise as necessary.
 - NCCD committee on standards & protocols will partner with CII.
- ❖ Evaluation of various techno feasibility reports of DAC, submitted by external consultants & TSG.
- ❖ Redressal support to NHB on inspections.
- ❖ Supporting IC (International Cooperation) in meeting with International dignitaries regarding cold-chain.

Planned Projects

❄️ Reefer Vehicle Redressal Call-center (RVRC)

- To provide a 24 x 7 x 365 call-in center to capture, pass-on & document the grievances of Reefer Vehicle operators.
- To provide MIS fortnightly/monthly
- IT system to provide toll free access to reefer transporters/operators for fast track recording of complaint



❄️ Setting up of a virtual network of cold-chain assets will be initiated in Ph-II

❄️ Study on investment in PHM in India with World Bank is under development.

❄️ Proposed applied research & development facility to be setup which will include testing labs, library, demo hot and cold rooms.

Under development/planning

Future Plan 2014-15

Centre of Excellence for applied research and learning

NCCD to develop plans for applied research on cold chain protocols for specific produce. The CoE to house appropriate testing lab and library as well as demonstration units.

Library and research centre on cold-chain topics.

- In house Training facility with video-conference and in-house residency.
- Showcase latest refrigeration technology, setting up of live demo units.
- Applied research to understand and create a data base for shelf life of identified high value fruits and vegetables in cold and hot air rooms
- Testing Labs planned in the future to validate equipment parameters.

Capacity Building / Training services

- i. **Institutional Capacity Building in cold-chain (State Level Workshops) –**
15 state level workshops of minimum 10 persons each.
- i. **Training of identified trainers from private industry**
15 batches each for three days.

Future Plans

Program awareness, Cold-chain Seminars, exhibitions, workshop

- i. International Level seminars** – NCCD does not anticipate organising international level seminars but may support such events when appropriate on behalf of MIDH. Two such events are tentatively budgeted for. This budget may also be used to participate in international events on cold-chain.
- ii. National Level seminars** – 6 national level seminars to be organised or sponsored as part of awareness program in 2014-15.

Technology package of existing cold chain infrastructure

Develop a virtual network of cold-chain with geo-mapped cold stores. With industry participation, update information with weekly or monthly capacity availability. Similarly develop towards capacity mapping of reefer vehicles in the country, including pack-houses. This can be overlaid with static terrain data and dynamic weather patterns. The system will be informative for users to plan a supply network and provide government ready information for policy decisions. This program is linked with CoE.

NCCD Participation

Seven specific member categories basis NCCD roadmap, namely:

- **Category G** – Groups (Grower Associations, Cooperatives, FPOs, NPOs
- **Category C** – Individual Companies, Investors and Research companies.
- **Category I** – Industry Bodies, Associations/Chambers & PSUs/Apex Institutes.
- **Category P** – Patron members.
- **Category R** – Resource Institutes: Educational Institutes, Centres of Excellence, Compliance/ Regulatory Authorities.
- **Category A** – Associate Member.
- **Category F** – Fellow of NCCD.

Expert members on GC would be nominated by Chairman from category F.

Membership is contingent to selection criterion and evaluation by selection committee.

NCCD Participation

- ❖ **Category G (Growers):** This membership category is recommended for Farmer's Associations and Cooperatives, Retailer's Cooperatives, Social enterprises, student study groups, NGOs and NPOs. Various FPOs are under formation under PPP-IAD initiative and will require support in setting up necessary cold supply chain aspects from farm to retail.
- ❖ **Category C (Companies):** Companies with existing or proposed business interests in the cold chain sector. (Commercial enterprises or private firms registered under companies act.)
- ❖ **Category I (Industry Bodies):** Institutional Groups: Industry, Trade, Financial Institutes and Chambers of Commerce, PSUs & Apex Institutions, Port and Airport Authorities. This criterion would include Government organisations including national level agencies and Registered Trade Bodies that represent groups / sectors / associations of commercial enterprises.
- ❖ **Category R (Resource Institutions):** Reputable Learning & Training Centres, R&D organisations and Centres of Excellence in fields inter alia of cold chain - supply chain, refrigeration, infrastructure & solutions design, agri-business, management, economics & Accreditation Authorities.

NCCD Participation

- ❖ **Category A (Associates):** Interested individuals with interest in the inter alia fields of supply chain, cold chain, infrastructure & solutions design, agri-business, management, economics & finance, etc.
- ❖ **Category P (Patron):** 'Category I' members who make a contribution to the corpus of 20 lakhs. Alternately equivalent allocation of resources can be made to NCCD. Such Patron members can seek individual nomination for representation on the governing council.
- ❖ **Category F (Fellow):** Honorary title as Fellow of NCCD would be nominated to Category A members who are individuals of repute with minimum 20 years of experience from the inter alia fields of cold chain, supply chain, infrastructure & solutions design, agri-business, management, economics & finance or other luminaries.

Thank You



National Centre for Cold Chain Development

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