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India's Drinking Water and Sanitation Challenges



Cover Story

India's Drinking Water and Sanitation Challenges

Safe drinking water and basic sanitation are of crucial importance to the preservation of human health, especially among children. Sanitation and clean drinking water are complementary to each other. There is a great truth in the saying: 'water is life; and sanitation is a way of life'.

Drinking Water

Providing safe and adequate drinking water for all, at all times in rural India is the vision of the Ministry of Drinking Water and Sanitation (MDWS) of the Government of India (GoI). Accordingly, it works with an outcome budget of ensuring before 2022 that at least 90% of rural households are provided with piped water supply; at least 80% of rural households have piped water supply with a household connection; less than 10% use public taps and less than 10% use hand pumps or other safe and adequate private water sources. The drinking water quantity to be supplied to households in rural areas has also been enhanced from the previous 40 lpcd / 55 lpcd to 70 lpcd. Government of India started financially supporting drinking water supply programmes in a significant way since IV Five Year Plan, which until then was financed by the respective States. And the amount of funds spent by the Government of India especially in the X, XI, and XII Five Year Plans is many times more compared to the previous plans. However the fact remains that as on 31.12.2013, about 43% of the rural population has had access to piped water supply. About 70% of the rural population has had access to safe source of drinking water within a distance less than 1000 metres. The rest are either partially covered or

have drinking water sources with chemical contamination. Going by number, out of the 16,92,251 habitations in the country, the ones partially covered are 4,48,439 (as of 2013-14), and habitations with quality problems are 82,794.

The number of villages with piped water supply and number of households with yard taps are on the increase, while the number of hand pumps and common water collection points in many villages are coming down. The focus is on providing drinking water facility, especially piped water supply to Gram Panchayats that have achieved open-defecation-free status on priority basis; providing support and environment for panchayati raj institutions and local communities to manage their own drinking water sources and systems in their villages. This is an encouraging development. However, the issue of source sustainability, problems of water quality and water contamination related issues are mounting due to the culture of excessive dependence on groundwater.

There are large inter-State variations in the coverage of households with piped water supply. The percentage of piped water supply varies from 2.6 in Bihar to 95.20 in Chandigarh. There are 6 States, viz. Bihar, Jharkhand, Assam, Odisha, Chhattisgarh and Madhya Pradesh (in order of appearance) that have less than 10% coverage of households with piped water supply. States / UTs viz. Chandigarh, Puducherry, Himachal Pradesh, Daman Diu, Sikkim, and Tamil Nadu (in order of appearance) have piped water supply in the range of 80% to 95%.

Sanitation

Swachh Bharat Mission (G) announced on 2 October 2014 is quite different from the previous efforts of rural sanitation promotion. In the sense, it has made sanitation a people's movement.

The government has announced that it would spend about ₹ 2 lakh crore on building more than 111 million toilets, and invited contributions to a new 'Swachh Bharat Kosh' (Clean India Fund) from corporate houses as well.

The NIRD&PR has planned a series of training programmes, and workshops on Swachh Bharat Mission as part of training calendar 2015-16. The workshops will help generate ideas to achieve Clean India, and the training programmes to motivate and familiarise the participants with best practices and innovative ideas to work with communities. Swachhata action is undertaken in Action Research and Adopted Villages of the Institute. Besides Swachh Bharat in action, NIRD&PR is involved in development of models and systems for solid and liquid waste management. There are practitioner consultations conducted for being able to cull good practices for dissemination. There is case study series done of the successful Gram Panchayats wherever the community / Government / NGOs have done extraordinary work that can be replicated in other parts of the country. A Handbook on Solid Waste Management in Rural Areas is being prepared, which shall introduce to the GPs the scientific ways of managing domestic waste at local level.

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National Innovation Abhinav Award to NIRD&PR



NIRD&PR has been awarded National Innovation Abhinav Award for Innovations in Integrated Watershed Management Programme (IWMP) through Geoinformatics Applications on Feb 19, 2015 at New Delhi by Honorable Union Minister of Rural Development, Panchayati Raj, Drinking Water and Sanitation, Shri Choudhary Birendra Singh. It was in recognition of Geoinformatics Technology innovations through web based Watershed Estimation, e-DPR, Geo Hydrology Model, watershed monitoring, impact assessment studies etc., and was awarded in a function organised by the Department of Land Resources, Ministry of Rural Development, Government of India, Dr M V Rao, Director General, NIRD&PR and Dr V Madhava Rao, Professor & Head (CGARD) received the Award.

National Workshop on Gender Budgeting in Rural Development

Centre for Women Development & Gender Studies (CWD&GS), NIRD&PR, Hyderabad organised a National Workshop on Gender Budgeting in Rural Development for Officers of North Eastern States at NIRD&PR, NERC, Guwahati during 25-27 February, 2015. The programme was sponsored by Ministry of Women and Children, Government of India.

The main objectives of the workshop were to develop an understanding of the concept and importance of gender in

rural development and gender budgeting and to develop skills in application of tools and techniques of gender budgeting.

Altogether 27 participants drawn from Rural Development and Panchayati Raj departments attended the workshop. They represented six States namely, Arunachal Pradesh (4), Assam(13), Manipur(1), Meghalaya(2), Nagaland(6), and Sikkim(1).

Dr.R.M.Pant, Director, NERC, Guwahati, while inaugurating the workshop dwelt upon the need for improved understanding of gender issues and emphasised the application of gender budgeting in rural development and panchayati raj. The contents of the workshop included viz. Gender Issues in RD - Gender Perspectives in preparing



budget and budget analysis; Overview and tools and techniques of Gender Budgeting, PRIs and gender budgeting, planning for GB at district level. The workshop was conducted using participatory methods which included lecture-cum

discussions, group discussions and games.

Dr.C.S.Singhal, Professor & Head and Dr.K.K.Bhattacharjee, Faculty, NIRD&PR, NERC coordinated the Workshop.

Horizontal Learning of Practices on Development Governance

Horizontal Learning of Practices on Development Governance was organised by CHRD from February 23-27, 2015 at NIRD&PR. Twenty five participants from eight States participated in the programme. The flagship schemes such as SAGY, SBA and MGNREGA were dealt with. Devolution index and challenges in making model villages were also discussed. A field visit to Ankapur village, Nizamabad district was another learning event. The participants discussed with the Sarpanch and appreciated the contribution of Gram Panchayat in raising resources. The waste to wealth project of Kurudampalayam Panchayat, Coimbatore district and women empowerment successfully carried out by Gaziapur Panchayat, West Bengal were eye opener amongst peer group. As a result of



horizontal learning facilitated by the programme, the participants left with immense satisfaction of understanding their role and responsibilities as public servants through representative democracy

and thereby to prove themselves as able leaders of development Governance. Dr. Sarumathy, Dr.Gyanmudra & Dr. Sucharita Pujari of CHRD organised the programme.

Planning Participatory Watershed Projects for Sustainable Income Generation in IWMP

A training programme on “Planning Participatory Watershed Projects for Sustainable Income Generation in IWMP” was organised at NIRD&PR, Hyderabad during February 23 - 27, 2015. A total of 23 participants attended the programme who included senior and middle level officials including two women participants. The main objectives of the programme were to i) to familiarise the participants with the participatory approach in planning watershed projects; ii) to acquaint them with effective water and land conservation practices under watershed projects; and iii) to explore the efficient resource-use options for sustainable income generation. The deliberations covered IWMP Concepts and Programme Management; Technical Planning and Participatory Approaches; Agriculture, Allied, Non-agricultural Micro-Enterprises; Post-Project Arrangements, Livelihoods, Markets



and Technology. The programme provided maximum number of hands-on-sessions to expose the participants to various topics such as Convergence of IWMP with other NRM Programmes, post-project arrangements in IWMP, productive enhancement through soil and water conservation, governance issues,

gender participation in Planning Watershed Programmes etc.

The programme was coordinated by Dr. Siddayya, Head i/c (CWLR) and Dr. Ch. Radhika Rani, Assistant Professor of Centre for Water and Land Resources (CWLR), NIRD&PR.

Micro-enterprise Development and Recovery Management



The captioned training programme for rural bank officials was conducted from 16 to 20 February, 2015 at ETC Raigunj in North Dinajpur district of West Bengal. The programme was attended by 24 participants drawn from the rural branches of the Bangiya Gramin Bank, District Central Cooperative Bank of Dinajpur District and other commercial banks.

The coverage of the programme included SHGs, bank linkage procedures, problems in delivery of rural credit, expectation of rural borrowers from the bankers.

Extensive coverage of bank-linkage procedures were made through slides, power-point presentations and relevant movies documenting the success stories from various States. The participants were excited to work in their respective rural branches to initiate a major breakthrough in the disbursement of rural credit under NRLM scheme in the northern part of the State of West Bengal. The field trip to nearby blocks in the North Dinajpur district was a unique experience for

all the Bankers. Though the debt-ridden poor entrepreneurs are yet to be financed by the bankers, it was observed that there exist ample scope to promote carpet weaving as it is not only profitable but also have enormous capacity for employment generation. Similarly, promoting earthen pots in another village was identified as a potential activity for income generation. Likewise, production of nutritious baby foods under Integrated Child Development

Scheme was another activity which motivated the officials to implement the model among the SHGs operating in their operational areas.

The programme was coordinated by Dr.B.K.Swain, Professor and Head of the Centre for Rural Credit and Development Banking, NIRD&PR and Ms. Susmita Chowdhury, Senior Faculty member of SIPRD, Kalyani, West Bengal.

Website Design and Development for Information Dissemination

A training programme on Website Design and Development for Dissemination of Development Information was organised at NIRD&PR–NERC, Guwahati during February 9-13, 2015. The objectives of the programme were to develop the skills of the participants in effective design and development of websites, to orient them in content development and organisation, and to impart hands-on training in designing various information services for dissemination of development information. A total of 17 participants attended the programme. The programme covered various softwares used in the design and development of websites viz. Microsoft FrontPage, MS Publisher, Adobe Photoshop, etc. Other topics covered included website domain name registration, updating and maintenance of websites including security, design and development of information products and services and organisation and dissemination



of information. The programme being technical in nature, the methodology included lecture-cum-demonstrations followed by hands-on practice sessions. Participants were asked to design websites and information products using all the software included in the programme. At the end of the programme, the participants presented the websites designed by them and various aspects to further improve the design and contents were discussed. In their

feedback, the participants expressed that the skills of website design and development of information services acquired during the training will help them in effectively disseminating the information.

The programme was coordinated by Dr. Anil Takalkar, Associate Professor & Head and Dr. T. Ramadevi, Documentation Officer, CMRD, NIRD&PR.

ICT Applications for Management of Rural Development Programmes

The Centre for Information Technology (CIT) organised a training programme on “ICT Applications for Management of Rural Development Programmes” during January 19-23, 2015 NIRD&PR, Hyderabad. 33 participants representing departments of Rural Development, Panchayati Raj, SIRDs, DRDA, Zilla Parishad, Kudumbasree, Watersheds, Forests & Environment, and Animal Husbandry departments attended the programme. They were drawn from 12 States namely, Chhattisgarh, Gujarat, J & K, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Punjab, Tamil Nadu, Uttar Pradesh and West Bengal. The main focus of the programme was to sensitise the functionaries of rural development and line departments to the potential of ICTs, e-governance, Geo-Informatics, monitoring & evaluation, and project management in effective management of rural development programmes. Besides, it was aimed at providing skills in development of Information Systems.



A field visit to District Water Management Agency (DWMA) Mahboobnagar was organised to provide insights into various intricacies in managing rural development programmes at the grassroots level. The participants interacted with the officials concerned with MGNREGA, IAY, IWMP and SHGs and. They also interacted with members of District

level federation of SHGs. The programme was well received and the participants indicated their readiness to apply the learnings from training to the programmes / project being handled by them. The programme was coordinated by Shri G V Satya Narayana, Senior Assistant Professor and Dr. P Satish Chandra, Head (CIT) of Centre for Information Technology, NIRD&PR.

Behaviour Change Communication for Rural Sanitation Professionals under Swachh Bharat Abhiyan

The Centre for Rural Infrastructure (CRI) conducted an off-campus training programme on ‘Behaviour Change Communication for Rural Sanitation Professionals under Swachh Bharat Abhiyan’ during 5 to 9 January, 2015, at State Institute of Rural Development and Panchayati Raj (SIPRD), Kalyani,

West Bengal. Twenty participants from SBA State Mission Offices of West Bengal and Madhya Pradesh attended the programme. Besides the theoretical and experiential components of the programme, the action component of the programme impressed the participants.

Swachh Action: Straight in front of the SIPRD entrance (for about 4 metres breadth X 100 metres length) local shop keepers had dumped wastes for more than 10 – 12 years. NIRD-PR Course Director from CRI along with SIPRD faculty took the initiative to clean up the place on their own. Deployed three tractors and over



10 men for 3 days and neatly cleaned up the place. The place was clean before the training came to close on 9 January, 2015. They could see some local boys playing cricket in that place the day training drew to a close.

The participants appreciated NIRD&PR for walking the talk. The faculty and staff of SIPRD including Additional Director and local residents highly appreciated for 'doing' rather than merely 'talking'.

This 'action component of the training' definitely added weight to the impact of the training. The Additional Director, SIPRD reminded: 'One ounce of practice is worth tonnes of preaching'.

International Conference on Labour and Employment Issues in the Context of Emerging Rural-Urban Continuum



Prof. H. R. Hashim, an eminent economist of India delivered the Inaugural Address. Prof. Jan Breman, Honorary Fellow, Institute of Social Science, The Hague, delivered the Keynote Address. The Inaugural Session was chaired by Prof. R. Radhakrishna, a noted economist and Chairman, Advisory Committee, S. R Sankaran Chair. Dr. M.V. Rao, Director General, NIRD&PR gave the welcome

S. R. Sankaran Chair (Rural Labour) at NIRD&PR organised a three-day International Conference on 'Labour and Employment Issues in the Context of Emerging Rural-Urban Continuum', during 12-14 March, 2015. The main objective of the Conference was to have a holistic understanding of the changing rural-urban linkages in the context of structural transformation that is taking place in developing countries including India.



address, and Kailash Sarap, Professor, Sankaran Chair, briefed about the Conference. Prof. Ashwani Saith, Professor, Institute of Social Sciences, The Hague delivered the valedictory address whereas Prof. Shiela Bhalla chaired the valedictory session.

Dr. M. V. Rao, while welcoming the delegates, pointed out that rural-urban distinction is becoming blurred over the years. The increasing mechanisation of agriculture has been leading to transfer of labour from rural to urban areas. While the implementation of MGNREGS is reducing the out-migration from rural areas, it could not check moving out of the younger generation.

Prof. S. R. Hashim said that the initial growth strategy of India could not generate much employment opportunities in industrial sector as expected to make use of rural surplus labour. Growth of urbanisation has been very slow in India. There has been a policy bias in favour of rural areas especially in terms of poverty alleviation measures. He pointed out that the movement of people from rural areas including the rural poor

to urban areas has aggravated the urban poverty due to lack of basic amenities and decent jobs. Urban areas are becoming dumping yards and urban poverty a spillover of rural one. Sometimes the economic conditions of migrant people in urban spaces are relatively better than non-migrant ones.

Prof. Jan Breman in his keynote address said that as far as the issues of migration are concerned, the focus has been on rural-urban migration sidelining the rural-to-rural migration. He pointed out the underestimation of migrant labourers in many of the macro surveys. Most of migrant labourers are being engaged in informal sector as the formal industry is unable to provide sufficient employment opportunities. Increasing rural inequality, owing to dispossession of poor is a factor compelling the rural out-migration.

Valedictory address by Prof. Ashwani Saith was on 'the collective foundations of market success-viewing Chinese development from an Indian perspective. While India and China had similarity in their socio-economic characteristics

including economic growth and per capita income till late 1970s, the development paths followed since then in both countries led to increasing divergence between them. He attributed the China's success to its collectivist and socialist model of development strategy.

There were five Technical Sessions along with a Panel Discussion Session. More than two dozen presentations were made by distinguished scholars and promising young researchers during the Conference. Scholars from China shared their country's experiences and Prof. Rizwanul Islam made a presentation on Bangladesh. Several distinguished scholars from abroad namely, Prof. Judith Heyer, Prof. Gerry Rodgers, Prof. Jenine Rodgers, Prof. Sonalde Desai and Prof. Kunal Sen, and those from India such as Prof. Shiela Bhalla, Prof. T. Papola, Prof. Alakh Sharma participated in the deliberations on different themes of the Conference. The Panel Discussion has brought out some of the burning issues and challenges of Rural-Urban Continuum.

National Seminar On Geoinformatics Applications in Rural Development

A National Seminar on "Geoinformatics Applications in Rural Development" was organised during 26-27 March, 2015 at NIRD&PR, with an aim to discuss the most recent innovations, trends, concerns and solutions adopted in the field, emerging trends, experiences in Programmes and Policies of Rural Development using Geospatial Technologies and its





applications. The participants included Development Functionaries, Policy Makers, Scientists, Researchers, Academia, Project Directors from NGOs, Panchayati Raj Functionaries and Practitioners from Rural Development Industry. Dr V Madhava Rao, Professor & Head, CGARD delivered the Welcome Address. The Seminar was inaugurated by Dr. P G Diwakar, Deputy Director (Remote Sensing Application Area), National Remote Sensing Centre, Department of Space, ISRO and was presided over by Smt. Chanda Pandit, Registrar & Director (Admn.), NIRD&PR.

Eminent Geospatial Experts delivered keynote addresses on various themes of the seminar. These included Dr. K S Rajan, Professor, IIIT, Hyderabad, on Open Source Geo-spatial Application Software for Rural Development; Dr. CD Reddy, Professor, IIGM, Mumbai on GNSS Applications in Rural Development and Shri T Gangadhara Rao, Director (Tech.), RSI Soft. Tech. on "Mapping with Villages using UAVs".

The Seminar had eight Technical Sessions viz., Natural Resource

Management, Rurbanisation, Social Sector Development, Infrastructure Development, Environmental Impact Assessment, Decentralised Governance, Spatial Decision Support System and Disaster Management. There were 60 Technical Papers presented as part of the deliberations. The Senior Scientists from NRSC, INCOIS and Professors from IITB, Andhra University, Sambalpur University and VIT chaired the Technical Sessions and moderated the presentations.

An Exhibition was organised by Geospatial Industry, Application developers and professionals during the Seminar. NRSC-Bhuvan, Survey of India, ESRI India, AMIGO Optima, SKYRAX India, SKYMAP Global, CELKON and Adopto Geo Informatics participated in the event. The Exhibition highlighted the latest technology trends, Instruments and applications in Rural Development. Live demonstrations were organised on the use of technologies and instruments including Mobile applications and Drone.

The Concluding Session was chaired by Shri S M Vijayanand, Secretary, Panchayati Raj, Govt. of India and Director General, NIRD&PR. The Seminar Report was presented by Dr. V Madhava Rao highlighting the proceedings during the two day deliberations. Seminar Proceedings was released by Shri S M Vijayanand. In his Valedictory Address Shri Vijayanand appreciated the efforts of CGARD in organising National Seminars on regular basis and documenting all geospatial technology applications in rural development sector in the country.

The Seminar was organised by the Faculty, CGARD, NIRD&PR namely, Dr V Madhava Rao, Professor & Head, Dr P Kesava Rao, Shri T Phanindra Kumar, Shri D S R Murthy and Dr Pammi Raj Kumar, Assistant Professors of CGARD. Shri K Rajeswar, Team Leader (IT) also assisted in web based online uploading of abstracts and technical papers' uploading of the Seminar.



NIRD&PR-CIRDAP Collaborative International Training Programme on ICT Applications for Rural Development

NIRD&PR-CIRDAP Collaborative International Training Programme on ICT Applications for Rural Development which was sponsored by the Ministry of Rural Development, Government of India was conducted at the Institute during March 09-18, 2015.

18 participants from 11 CIRDAP Member Countries including six women took advantage of the programme. The participants were senior officials with varied background in the fields of Agriculture, Rural Development, Information Technology, Agrarian Reforms, Cooperation, etc. The main focus was on the application of ICTs, its interventions in Rural Development covering key areas such as e-Governance Projects, Role of Software Technology Parks, Recent Trends in Networks, ICT Innovations in Health, Innovative Learning Solutions for Mass Education, Rice Knowledge Management Portal, Payment Disbursements through SMART Cards, Geo-Informatics Applications in Rural Development, e-Marketing of Agricultural Products, Rice Portal, InDG Portal, Vikaspedia and Data Centre, etc.

Dr. M V Rao, Director General, NIRD&PR in his inaugural address stressed the need for better utilisation of modern technologies and said that India in this direction has adopted many best practices in varied sectors which can be replicated in CMCs.



The Resource Persons / Experts have not only explained the new technologies and best practices evolved from time to time but also given lucid examples / case studies followed by demo / live Audio / Presentations concerning national and international scenarios. After the session / discussions, the participants were provided ample opportunity to get their doubts clarified. The theory-cum-practical orientation of the programme helped the participants to have a complete understanding of the techniques and also the utility of each of these applications in respective domains.

Dr. Alvin. W Yeo, Director, Institute of Social Informatics, University of Malaysia addressed on Social Informatics and Livelihoods - Malaysian experience.

The participants were taken to various Service Centres including, NIC, STPI, NISG, C-DAC, etc., in and around Hyderabad city. With a view

to acquainting the participants with the field level exposure, a two-day Study Tour was arranged to ICRISAT, STPI, CARE Foundation and Wi-Fi network based pest control of CDAC with ISRO in the nearby village to get first hand information about the activities and technologies being adopted at the grassroots level in the area of agriculture.

Dr. Cecep Effendi, Director General, CIRDAP gave the Valedictory address and interacted with the participants. He elicited information pertaining to the usefulness and relevance of the programme from the delegates. What impressed upon him was embedded ICT Applications that is receiving priority role in every field throughout the globe and making significant strides. Convinced with the feedback, he informed that CIRDAP would continue to organise collaborative programmes in the future on most relevant and demand based to cater to the requirements

of CMCs. Dr. Vasanthi Rajendran, Director (ICD), CIRDAP played key role for the successful conduct of the programme and thanked DG, NIRD&PR, DG, CIRDAP and Ministry of Rural Development, Government of India for sponsoring the programme.

The participants appreciated the programme design, content, reading material, sequencing of sessions, lecture-cum-demos delivered by the

resource persons, case studies, exposure visits including cultural programme etc. As regards most preferred themes, the participants expressed that e-Governance, SMART Cards, Innovative Solutions in Mass Education, In DG Portal, Rice Portal, Tele-Medicine, Knowledge Park are some of the topics / subjects which impressed them and were ready to carry back home for their work environment. They thanked the Ministry of Rural

Development, Government of India and DG, CIRDAP for providing them an opportunity to attend this very useful programme in India.

The programme was coordinated by Dr. P Satish Chandra and Shri G V Satya Narayana of Centre for Information Technology of the Institute. Dr. Vasanthi Rajendran coordinated programme on behalf of CIRDAP.

International Training Programme on Management of Rural Credit for Poverty Alleviation

The International Training Programme on “Management of Rural Credit for Poverty Alleviation”, sponsored by Ministry of External Affairs, Government of India was organised from 2 to 29 March, 2015.

Seventeen participants from 13 countries, namely Algeria, Bangladesh, Ghana, Iraq, Jordan, Malaysia, Niger, Peru, Srilanka, Sudan, Tanzania, Syria and Yemen attended the programme. The programme was aimed at enhancing the knowledge and skills of the participants of developing countries in the field of microcredit. The main objectives of the programme were: i) to facilitate the participants’ understanding on importance of micro-credit in alleviating poverty ii) to provide a platform to the participants of member countries to share their experiences and



success stories of microcredit activities of their countries iii) to equip the participants for successful launching and managing micro-enterprises and forming saving and credit groups and iv) to share experiences of India in rural credit management

The course was designed to give maximum exposure to the participants on various issues of rural development in general and

microcredit in particular. Sessions on important topics were taken by experienced faculties of NIRD&PR and guest faculties from outside on subjects like Rural Development: Indian Experience, Microfinance Development: Bangladesh Joint Liability Model on Credit Provisions, Livelihood Options in developing countries, Rural Technologies, Gender issues in

Microfinance, Social Mobilisation, Federating SHGs, etc.

As part of the programme, the participants were taken on a study tour to Bidar in Karnataka for four days. The participants were exposed to MFIs which are working in various blocks for empowering SHG members. The participants visited SHGs and got first-hand information about the group meetings, book keeping, loan collection and repayment procedures followed in the group including the process of decision makings. They were exposed to groups which were engaged in business and agriculture related activities. The participants enquired about the raw materials

and marketing of finished products and the role of MFI in providing support services like procurement of raw materials, availability of timely credit and marketing of products. They were also exposed to a skill based training programme conducted by the District Central Cooperative Bank (DCCB), Bidar for the self-group members. The participants interacted with the group members. They also visited DCCB Head Office and Rural Self-Employment Training Institute (R-SETI) Bidar and had discussions with Director and trainees on the effectiveness of various self-employment training programmes. Besides, the participants had the opportunity to visit Mailoor Primary Agricultural Cooperative Society and

various Self-help Groups at Halbarga and gained practical experiences of functioning of joint liability groups, procedures of record keeping, working of small sugar mills and baby food units.

During the last week of the training programme the participants presented reports on the field visits. This was followed by discussion on the scope of microfinance activities in their countries and preparation of plan for follow-up. The programme was coordinated by Dr.B.K.Swain, Professor and Head, Centre for Rural Credit and Development Banking (CRCDB) and supported by Project Consultants working in the Centre.

Corporate Social Responsibility in Rural Development

The Centre for Equity and Social Development of the Institute organised a training programme on “Corporate Social Responsibility (CSR) in Rural Development” during March 23 – 27, 2015. The course was attended by 47 persons represented by civil society organisations, NGOs, Tata Institute of Social Sciences and Central Public Sector Undertakings (CPSUs) like ONGC, BHEL, Air India, Coaching Shipyard Limited etc. The participants of the course were taken for field visit to see CSR programmes supported by Tech-Mahindra Pratham institute. In addition, the participants were



engaged in panel discussions with the representatives of Akshayapatra (ISKCON), Tech-Mahindra and Reddy labs. The course was directed by Dr.R.R. Prasad, Prof. & Head (CESD) assisted by Dr. R. Murugesan, Associate Professor (CESD) and Dr. R.K. Shrivastava, Adjunct Faculty.

Celebration of International Women's Day

Women from rural areas who climbed to the top from the lowest rung of the ladder were the cynosure of all eyes at the International Women's Day Celebrations on March 10, 2015 at NIRD&PR. Dr. M. Lakshmi Kantam, Director, CSIR, Indian Institute of Chemical Technology, Ms Geeta Vardan, Director, Advanced Data Research Institute of ISRO, Hyderabad and six women entrepreneurs trained in RSETI, Community Resource persons, and fisher women shared their experience on the occasion.

Dr M.Lakshmi Kantam in her address dwelt upon her journey to become a top scientist. She explained several technological innovations developed by CSIR-IICT for garbage disposal, drinking water purification, sericulture, rice bran oil and several useful drugs developed for the benefit of rural people. She advised to have determination, sustained efforts and hard work for success in life. Dr Geeta Vardan, a distinguished scientist holding a senior position, while sharing her experience stated that there was no gender discrimination in her organisation and she attributed the credit to the hard work for her success. She dwelt upon the satellite technology developed by Department of Space - ADRIN-ISRO which is being used extensively for development of communication, health services in anterior area.



Dr.M.V.Rao, Director General, NIRD&PR earlier in his welcome address hailed the excellent work done by Ms Lakshmi Kantam, Ms Geeta Vardan, both distinguished scientists and the invited guests and stated that they are the role models for women to emulate considering their success story. Dr Rao, while referring to the guests said that it is the "story of inspiration" as each one of them proved themselves to bring prosperity and confidence not only in themselves but in around many more fellow women.

Ms N Annapurneswari, a successful entrepreneur from Dowleswaram, Rajamundry district, Andhra Pradesh, while sharing her success story said that she is providing training on dress designing and fashion technology to women trainees and running a garment unit in her residence and providing employment to good number of women at her unit.

Among others who shared their success stories include Ms. Chintala

Varalaxmi, Sangareddy Mandal, Ms T.Uma Devi, Nizamabad, Ms Mutabai, Zilla Samakhya, Medak district, Telangana State Ms R. Shrimal Sonal, Dhandhuka, Ahmedabad and Ms Parvathamma, a fisher woman, Gopalpur, Odisha. Every success story shared by these women was inspiration for all.

Dr M.V.Rao, Director General, and Mrs. Padmasri, President, Haritha Mahila Mandali, NIRD&PR honoured the guests by presentation of shawl and memento as a mark of respect for their valuable service to the nation. Faculty and staff, NIRD&PR, members of Haritha Mahila Mandali and NFDB officers and staff graced the occasion.

Dr.C.S.Singhal, Dr Lakhan Singh, Prof & Head and Assistant Professor, respectively, Centre for Women Development & Gender Studies, & Dr Aruna Jayamani, Assistant Professor, CPME, NIRD&PR coordinated the programme.

Book Release by NIRD&PR

1. Book on Action Research: Enhancing SHG Movement for Livelihood Promotion in Anantapur District of Andhra Pradesh 2. Right to Education: Challenges and Strategies

Dr Gyanmudra, Project Leader and team members Dr Sarumathy and Dr RP Achari of the Institute initiated in 2012 an action research project on Enhancing SHG Movement for Livelihood Promotion in Anantapur district of Andhra Pradesh. The project brought out significant changes at the field level. The publication is a compilation of the works done at village level. Team has put continuous efforts to make the villages empowered and to be a model village for neighbouring villages. The process and outcome reflected in the study are important for the policy makers to make new changes. The project has brought out inspirational changes in the rural



areas especially for women. The other book edited by Dr M Sarumathy and Dr Gyanmudra, on Right to Education: Challenges and Strategies is a compilation of papers presented by scholars, professionals

and academicians in the National Level Seminar held at NIRD&PR during 2013. The books were released on 10 March 2015 on the eve of International Women's' Day celebrations in the Institute.

Drinking Water and Sanitation in India: Physical Achievements

Distribution of Households by Main Source of Drinking Water, All-India - 2011

	Absolute number		Percentage	
	Total	Rural	Total	Rural
Total Number of Households	246692667	167826730	100.0	100.0
Tap water	107407176	51705165	43.5	30.8
Tap water from treated source	78873488	29969145	32.0	17.9
Tap water from un-treated source	28533688	21736020	11.6	13.0
Well	27185276	22333658	11.0	13.3
Covered well	3895409	2591028	1.6	1.5
Un-covered well	23289867	19742630	9.4	11.8
Handpump	82599531	73245349	33.5	43.6
Tubewell/Borehole	20916074	13898837	8.5	8.3
Spring	1314556	1184498	0.5	0.7
River / Canal	1550549	1412565	0.6	0.8
Tank /Pond/Lake	2075181	1771796	0.8	1.1
Other sources	3644324	2274862	1.5	1.4

Source: www.censusindia.gov.in.

Sanitation in India: Physical Achievements

S.No.	Finance Year	IHHL BPL			IHHL APL	Total IHHL(APL+BPL)	School Toilets	Sanitary Complex	Anganwadi Toilets
		Total	SC	ST	Total				
1	2001-2002	638680	75065	16636	0	638680	10210	512	674
1	2001-2002	638680	75065	16636	0	638680	10210	512	674
2	2002-2003	596380	72499	29628	0	596380	9313	428	979
3	2003-2004	5503024	1553772	481483	633986	6137010	68085	1580	9526
4	2004-2005	2885604	865885	232288	1696679	4582283	55226	1623	10259
5	2005-2006	4080490	895334	368225	5090917	9171407	88092	2697	36057
6	2006-2007	4771876	1056224	589845	4928504	9700380	131542	2953	53126
7	2007-2008	5763430	1283089	844346	5764460	11527890	236259	3006	86489
8	2008-2009	5570899	1272974	785527	5694983	11265882	253004	3245	68995
9	2009-2010	5869608	1217219	908516	6538170	12407778	144480	2230	66227
10	2010-2011	6155933	1391628	907120	6087798	12243731	105509	3377	50823
11	2011-2012	4734816	1129472	745967	4064048	8798864	122471	2547	28409
12	2012-2013	2919819	704437	337332	1639343	4559162	76396	1995	36677
13	2013-2014	2553571	528332	386810	2422723	4976294	37696	1530	22318
14	2014-2015	3045948	765009	439309	2809718	5855666	25267	1109	8380
15	2015-2016	776	142	97	1232	2008	0	0	0

IHHL: Individual Household Latrine, BPL: Below Poverty Line; APL: Above Poverty Line

Source: <http://tsc.gov.in>



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