

ANNUAL REPORT

2015-16



Agro-Economic Research Centre

(Ministry of Agriculture & Farmers Welfare, Govt. of India)

Sardar Patel University

Vallabh Vidyanagar 388120, Anand, Gujarat



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AERC, SPU, VVN
Established in 1961

Agro-Economic Research Centre

For the states of Gujarat and Rajasthan

(Ministry of Agriculture & Farmers Welfare, Govt. of India)

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The Director
Agro-Economic Research Centre
For the states of Gujarat and Rajasthan
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Felicitation of Dr. Ashok Dalwai, IAS (Additional Secretary, Department of Agriculture & Cooperation, Ministry of Agriculture and Farmers Welfare, Government of India) by Dr. Harish Padh, Vice Chancellor, SPU, VVN (July 1, 2015)



Felicitation of Dr. R. S. Deshpande (National Fellow, ICSSR & Former Director, Institute for Social and Economic Change, Bangalore) by Dr. Harish Padh, Vice Chancellor, SPU, VVN (July 1, 2015)



CHAIRMAN'S STATEMENT

It gives me immense pleasure to take note of the achievements of the Agro-Economic Research Centre (AERC) for the year 2015-16. I am pleased to note that the Centre has continued the tempo of academic activities for the 55th year in succession. The Annual Report 2015-16 presents a fairly comprehensive account of the various academic activities of the Centre.

It also describes the activities of the faculty members and researchers at the Centre. Right from its inception, this Centre has undertaken a number of research studies on major agriculture development programmes enjoying high national priority. This centre has, in its own modest way, strived to build bridges of understanding between ground realities and macro public policies. It has provided worthwhile feedback in the formulation of policies relating to agriculture and rural development in Gujarat and Rajasthan. Collection of high quality field data has been a widely recognized hallmark of our field research.

The year was marked by some important events such as organization of Workshop cum Training Programme for field staff of CCS, National Workshop on AERC Coordinated Research Projects, AERC Foundation Day Lecture 2015 by Prof. R. S. Deshpande and Chief Guest address by Dr. Ashok Dalwai (Additional Secretary, MoA & FW, GOI), Invited Seminar/lecture talk by Dr. Samar Dutta (former Professor, IIM, Ahmadabad), Visit of Madam Dr. Sangeeta Verma (Economic and Statistical Adviser, MoA & FW, GOI) and Shri Chander Kant (Additional Adviser, CS Division), H.M. Patel Memorial Lecture 2016 by Shri Sudhir Mankad, Installation of Solar Power System and Lift, timely completion and submission of CCS data as well as research reports to the Ministry.

Apart from undertaking the research studies, the faculty of Centre participated in seminars, conferences, workshops, group discussions on field and various meetings. The wide ranging activities of the Centre as summarized in the report are truly gratifying. I congratulate the Director, faculty and staff of the Centre for their excellent performance and sincere efforts in realizing the objectives of the Centre.

The Ministry took important decision to constitute a Review Committee for examining the various aspects of the functioning of AERCs/Us network and to suggest possible roadmap for its future development. I hope that Ministry would take positive step and would strengthen AERC network further. I am sure that in coming years, the Centre will make efforts to upgrade for quality research output and publications, ensure more effective communications and undertake more collaborative work.

Dr. Harish Padh

Chairman, Governing Body AERC &
 Vice Chancellor, Sardar Patel University, Vallabh Vidyanagar



Ms. Sangeeta Verma (Economic and Statistical Adviser, Directorate of Economics and Statistics , Department of Agriculture, Cooperation & Farmers Welfare, Ministry of Agriculture and & Farmers Welfare, Government of India) & **Shri Chander Kant** (Additional Statistical Adviser, CS Divisions of Ministry) visited the Centre on January 15, 2016



Meeting with **Prof. Kaushik Basu**, Chief Economist and Senior Vice President, World Bank, Washington DC at Hyderabad Airport on December 26, 2015 while going to participate at the 98th Annual Conference of the Indian Economic Association (IEA), organized by Centre for Economic and Social Studies (CESS), Hyderabad (December 27-29, 2015)



FROM THE DIRECTOR'S DESK

I am happy to present before you annual report of the Centre for the period from April 2015 to March 2016. The report serves the twin objectives of self appraisal of our performance and of sharing information about the academic activities of the Centre with our well wishers, supporters and other interested groups and individuals. A wider circulation of this document helps us in getting valuable feedback from our well-wishers and policy makers for making our studies and dialogues more relevant to the emerging needs.

I feel privileged to prepare this document and present it before you. The activities of the Centre during the year under report include both research programmes and other academic activities aimed at the dissemination of knowledge gained through research. The faculty members have participated in several academic activities. During the year under report, Centre has submitted four research study reports to the Ministry and one report to other public agency. Besides, Centre has organized Workshop & Training to Field staff in CCS on FARMAP 2.0 Software, AERC Foundation Lecture 2015, National Seminar on Schemes for Change in Indian Economy: Need for Continuity and Consistency (jointly with N S Patel Arts College, Anand); and National Workshop on AERC Coordinated Research Projects. The installation of solar power system (3KVA) and initiation of work of installation of hydraulic lift are major infrastructure development activities undertaken. The decision of Ministry to constitute a Review Committee for examining the various aspects of the functioning of AERCs/Us network and to suggest possible roadmap for its future development is welcomed.

We continue to strive for attaining new goals and open up new avenues for our academic endeavors. This is possible only through the hard work of all staff members, guidance received from the esteemed members of the Governing Body of AERC, and the support as well as appreciation from a number of individuals as well as organizations within and outside the country.

I wish to express my grateful thanks to the Chairman and members of the Governing Body; Directorate of Economics and Statistics, Ministry of Agriculture and Farmers Welfare, Government of India; Directorate of Agriculture, Government of Gujarat, Gandhinagar; Department of Agriculture, Government of Rajasthan, Jaipur; Officers of Sardar Patel University, several government and non-government organizations and individuals for their support in various ways to the Centre. I wish to place on record my appreciation of the excellent work done by the faculty and useful support provided by the supporting staff of the AERC and CCS, who worked hard during the year for achieving greater heights of academic attainments.

Dr. S.S. Kalamkar
 Director & Professor



Felicitation of **Shri T. Nanda Kumar, IAS**, Chairman, National Dairy Development Board (NDDB), Anand by Dr. Mahesh Pathak, Hon. Adviser, AERC, VVN on March 11, 2016



Felicitation of **Prof. Samar Datta**, Retired Professor, Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad by Dr. Mahesh Pathak, Hon. Adviser, AERC, VVN on January 12, 2016



HIGHLIGHTS OF THE YEAR

- The faculty and the research staff members of the Centre completed five research projects and seven research projects are under progress.
- Prof. R. S. Deshpande (National Fellow, Indian Council of Social Science Research & Former Director, Institute for Social and Economic Change, Bangalore) delivered AERC Foundation Day Lecture 2015 on “Agricultural Economics: Don’t be in Hurry to Write an Obituary” on July 1, 2015.
- On the occasion of 54th AERC Foundation Day Lecture, Dr. Ashok Dalwai, (Additional Secretary, Ministry of Agriculture and Farmers Welfare, New Delhi) delivered the chief guest address on “Agrarian Crisis – Can AMUL offer some solutions” on July 01, 2015.
- Prof. Samar K. Datta (Retired Professor, Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad) delivered guest lecture / talk on “Shaping a Good Researcher: My Experience” at the Centre on January 12, 2016.
- Ms. Sangeeta Verma (Economic and Statistical Adviser, Directorate of Economics and Statistics, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Govt. of India) and Shri Chander Kant (Additional Statistical Adviser, CS Division of Ministry) visited to our Centre and field during January 14-16, 2016.
- Shri Sudhir Mankad, Chairman, GIFT City & Former Principal Secretary, Government of Gujarat delivered the 3rd H.M. Patel Memorial Lecture on “Making of GIFT City” on February 12, 2016.
- ‘Dr. V. S. Vyas Felicitation Prize’ for the best research reports conducted during period 2012-14 was awarded to AERC Report No. 148 on “Problems and Prospects of Oilseeds Production in Gujarat Special Reference to Groundnut”, prepared by Dr. Mrutunjay Swain.
- ‘Best Fieldman Award 2015’ in Cost of Cultivation Scheme for Gujarat was awarded to Shri Mahesh S. Parmar (Fieldman).
- The Centers for International Projects Trust (CIPT), New Delhi (organ of Colombia Water Centre, New York, UK) sanctioned the research project on Soil Health Card to the Centre.
- Organized three days Workshop cum training programme for CCS Field Staff on use of new FARMAP 2.0 software (June 29 to July 01, 2015).
- Organized two day National Workshop on AERC Coordinated Research Projects at the Centre on March 10 and 11, 2016.
- Jointly with N S Patel Arts College, Anand, organized the two day National Seminar on ‘Scheme for Change in Indian Economy: Need for Continuity and Consistency” during March 18-19, 2016.
- Dr. P. K. Sharma, Director, Krishi Vigyan Kendra (KVK) Dethli, Ta. Matar, Dist. Kheda delivered invited lecture to CCS Field Staff during workshop cum training programme on June 29, 2015.
- The students of B. A. College of Agriculture, Anand Agricultural University, Anand visited the Centre on August 19, 2015 under Rural Agricultural Work Experience Programme (106 students) and on September 08, 2015 under exposure visit on research activities related to agricultural economics and social sciences.

- Faculty members of the Centre published research papers/articles as well as participated in many seminars, conferences, workshops and training programmes.
- Under Special reservation recruitment drive, advertisement for vacant positions in CCS was released and filled up the all vacant posts.
- Submitted the data on cost of cultivation of crops in Gujarat for the year 2014-15 to the CS Division of Ministry on September 30, 2015.
- Provided Training to all the fieldmen in CCS on data entry in new data entry software FARMAP 2.0 at the Centre during regular interval.



Visit to tomato field with the officials of Ministry on January 16, 2016



Visit to Stall during Farmers Fair organized by KVK, Kheda on January 6, 2016

GOVERNING BODY

The Governing Body meets once a year under the Chairmanship of Vice Chancellor to discuss wide ranging issues including technical administrative and financial matters of the Centre.

Composition of the Governing Body
(as on March 31, 2016)

Dr. Harish Padh

Vice Chancellor, Sardar Patel University
Vallabh Vidyanagar -388120, Anand, Gujarat



Ms. Sangeeta Verma

Economic and Statistical Adviser
Directorate of Economics & Statistics
Department of Agriculture and Cooperation
Ministry of Agriculture, Government of India
Krishi Bhavan, New Delhi -110 001



Dr. V. S. Vyas

Professor Emeritus
Institute of Development Studies, Jaipur, Rajasthan
Former Member, Economic Advisory Council to the Prime Minister
Government of India



Dr. Y. K. Alagh

Professor Emeritus
Sardar Patel Institute of Economic and Social Research, Ahmedabad
& Chancellor, Central University of Gujarat, Gandhinagar



Dr. Amrita Patel

Former Chairman, NDDB &
Chairman, Charutar Arogya Mandal
Gokal Nagar, Karamsad - 388 325
Anand, Gujarat



Shri Arunkumar M. Solanki, IAS

Principal Secretary, Department of Agriculture and Cooperation
Government of Gujarat, New Sachivalaya
Gandhinagar - 382010, Gujarat





The Principal Secretary

Department of Agriculture, Government of Rajasthan
Sachivalaya, Jaipur 302 005, Rajasthan



Dr. Tushaar Shah

International Water Management Institute (IWMI)
C/o Indian Natural Resources Economics and Management (INREM) Foundation
Behind IRMA Mangalpura, Anand 388 001, Gujarat, India



Dr. Sudarshan Iyengar

Former Vice Chancellor, Gujarat Vidyapith
Ahmedabad - 380 014, Gujarat



Dr. S. S. Acharya

Professor Emeritus
Institute of Development Studies, Jaipur (Raj.) &
Former Chairman
Commission for Agricultural Costs and Prices (CACP), Govt. of India



Dr. D. J. Chauhan

Professor and Head
Post Graduate Department of Economics, Sardar Patel University
Vallabh Vidyanagar 388 120, Anand, Gujarat



Dr. Mahesh Pathak

Honorary Advisor
Agro-Economic Research Centre, Sardar Patel University
Vallabh Vidyanagar 388 120, Anand, Gujarat



Dr. S.S. Kalamkar

Director & Professor
Agro-Economic Research Centre
Sardar Patel University
Vallabh Vidyanagar 388 120, Anand, Gujarat





ABOUT THE CENTRE

The Agro-Economic Research Centre (AERC) for the states of Gujarat and Rajasthan was established in July 1961 at the Sardar Patel University, Vallabh Vidyanagar by the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India, New Delhi. It was late Shri H.M. Patel (ICS ret'd.) who not only provided the vision for establishing such an Institute but also ensured the much needed support and encouragement for its growth at Vallabh Vidyanagar. Though AERC is a part of University, it has been enjoying autonomy status in its working. The Centre has completed 54 glorious years (1961-2015) of its journey marked by both achievements and challenges. During these years, the Centre has emerged as a strong policy feedback centre of the Ministry of Agriculture, Government of India due to hard work and strong commitment of the staff in the Centre. The focus of research effort in the initial stage was on comprehensive village surveys and resurveys in order to understand the process and direction of change at the village level. Subsequently, the emphasis of research has shifted to problem oriented studies. The Centre has by now completed 163 problem-oriented studies, 21 village surveys and 4 village resurveys. Most of these research projects have been taken up by Centre on the recommendation of the Government of India and State Governments of Gujarat and Rajasthan. Some of the projects have also been sponsored by other national and international organizations. During its long journey, the Centre has brought remarkable improvement in every aspect

of research including methodological base of the studies. The studies have come out with useful findings and policy implications for agricultural and rural development of the states of Gujarat and Rajasthan. Many seminars and conferences were organized by the Centre (jointly with Department of Economics) during these years. Ever since its inception, the Centre has been working in close collaboration with the Post-graduate Department of Economics of the S.P. University and so far it has helped/supported about 40 scholars to successfully complete their Ph. D. work in agricultural economics. Since 1970, the Centre has been also organizing the work of Comprehensive Scheme to Study Cost of Cultivation of Principal Crops in Gujarat entrusted to the University by the Ministry of Agriculture, Govt. of India. The principle objectives of the Centre have been as follows:

1. To make continuous study of the change in rural economy by means of surveys of villages each year, to be repeated after an interval of five years.
2. To conduct ad-hoc investigation on problems of interest to the Ministry of Agriculture and Irrigation and the State Governments under their jurisdiction.
3. To undertake research on fundamental problems relating to the agricultural economy of the country, and
4. To give technical advice to the Government of India and to the State Governments on such important issues as, with mutual agreement, may be referred to the Centre.



COST OF CULTIVATION SCHEME

Studies on cost of production of agricultural commodities have been of interest to research workers and policy-makers. The need for reliable and representative estimates about cost of production of agricultural crops is obvious for formulating an appropriate strategy for planned agricultural development.

In a vast country like India with marked variations in agro-climatic conditions, it becomes essential to collect State-wise, region-wise data on cost of production of various crops on a continuous basis. Recognizing the importance of such studies, the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India, evolved a permanent arrangement for collection of cost of cultivation data on a continuous and uniform basis for all important crops in the country. The Directorate of Economics & Statistics decided to establish the Comprehensive Scheme for studying the cost of cultivation of principal crops in different states of India in 1968-69. The Directorate entrusted one such cost scheme to the Sardar Patel University for collecting cost of cultivation data in Gujarat. The University entrusted this Scheme to the Agro-Economic Research Centre. Since 1970, the Agro Centre and the Comprehensive Scheme are working together in close collaboration for serving the needs of the Directorate of Economics and Statistics of MoA, Government of India.

The data base generated through the "Comprehensive Scheme for Studying Cost of Cultivation of Principal Crops" is used not

only for the primary purpose of providing cost estimates for determination of Minimum Support Prices (MSP) but for a wide variety of other important purposes like 'Compilation of National Accounts Statistics', Wholesale Price Indices (WPI) and research studies relating to cost of cultivation and farm income.

Up to 1982, cost of cultivation data in Gujarat were collected from 480 sample cultivators spread over 40 clusters of villages through cost accounting method. Under the old arrangement (known as single crop approach) the clusters were changed every year retaining only a sub-sample of 10 to 20 clusters. Since 1983, the single crop approach has been replaced by crop complex approach under which the number of clusters has been increased from 40 to 60 thereby providing a wider and varied base for generation of reliable estimates. Now eleven principal crops of Gujarat viz., paddy, bajra, maize, mong, tur/arhar, groundnut, sesamum, cotton, wheat, rapeseed & mustard and onion are being studied continuously and simultaneously for three consecutive years in the same clusters of villages. At present, there is a sample of 600 cultivators (10 each from selected clusters) drawn from different size groups of holdings. The five size groups are: below 1.0 hectare, 1.0 to 2.0 hectare, 2.0 to 4.0 hectare, 4.0 to 6.0 hectare, 6.0 hectare and above. The work of Scheme is being looked after by 78 persons of which 60 are permanently posted in the villages spread over entire State of Gujarat. This Scheme is being fully financed by the Ministry of Agriculture and Farmers Welfare, Government of India.

ACADEMIC STAFF / FACULTY MEMBERS

(A) AERC

Name	Post	Qualification	Specialization
Dr. S. S. Kalamkar (dearshri@gmail.com, director. aerc@gmail.com)	Director/Professor	M. Sc. (Agri. Econ), Ph. D. in Agricultural Economics	Agricultural Production and Resource Economics, Agricultural Development Policy, Food Security and Sustainable Development, Biotechnology in Agriculture, Contract farming, Organic Farming
Vacant	Deputy-Director/ Associate Professor	--	--
Dr. Mrutyunjay Swain (mrutyunjay77@gmail.com)	Assistant Professor/ Research Officer	M.A. (Eco.), M. Phil. (Eco.), Ph.D. (Eco.), UGC (NET)	Agricultural and Resource Economics, Food Security and Sustainable Development, Climate Change, Disaster Management.
Dr. Hemant Sharma (sharmah007@gmail.com)	Assistant Professor/ Research Officer	M.Sc. (Agri), Ph. D. in Agricultural Economics	Agriculture Marketing and Production Economics.

(B) CCS

Dr. S.R. Bhaiya (foccsGui@gmail.com)	Field Officer	M.A. (Eco.), M.Phil.(Eco.), Ph.D. (Eco.)	Agricultural Economics, Cost of Cultivation, Research Methodology
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Visit to CCS Cluster 11, Madhva, Fatepura (Dahod) on December 8, 2015



Dr. Ashok Dalwai (Addl. Secretary, Ministry of Agriculture and Farmers Welfare, GOI) & Dr. R. S. Deshpande (former Director, ISEC, Bangalore) visited the Centre on July 01, 2015



AERC CCS Team with Prof. R.S. Deshpande on July 1, 2015



PROJECTS COMPLETED

- i) Title of the Project : Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY) in Gujarat
- Principal Investigator/s : S. S. Kalamkar, M. Swain and S. R. Bhaiya
- Sponsored By : ISEC Bangalore (All India study sponsored by Ministry of Agriculture, Govt. of India, New Delhi to ISEC, Bangalore)
- Coordinating Centre : ADRTC, Institute for Social and Economic Change (ISEC), Bangalore
- Date of Commencement : January 2015
- Date of Submission : May 2015

Summary:

The main objective of the study was to evaluate and measure the extent to which the RKVY programme and approach has stood up to the expectations in Gujarat. The study is based on secondary and primary level data. The secondary data on fund allocation, release, expenditure and related parameters were collected from the RKVY website (<http://rkvy.nic.in>) and other publications of Ministry of Agriculture, Government of India. The primary survey data were obtained from 449 selected sample beneficiary farmer households from eight RKVY districts of the Gujarat State.

In Gujarat, annual average growth in agricultural GSDP during the 11th plan was 5.6 per cent as compared to 10th plan growth rate at 9.7 per cent. Although the rate of growth appears to be lower during the 11th plan, still it is highly remarkable given vagaries of rainfall pattern. It is also important to observe that out of five years,

three years registered negative growth in agricultural GSDP during the 10th plan while only two years showed negative growth during the 11th plan. Further, average net sown area and gross cropped area increased considerably during the 11th Plan. The per hectare land productivity also showed increasing trend. Trend in these indicators imply that the performance of agriculture in Gujarat during the 11th plan was relatively good. In the state of Gujarat, 330 projects were implemented during the XI Five Year Plan and they spread across 19 sectors accounting for total expenditure of Rs. 2018.83 crore. Among the sectors, natural resource management has accounted for the highest proportion of expenditure followed by marketing and post harvest management, and agricultural mechanization. The average expenditure per project was also found be high at Rs. 14.5 crore under natural resource management. The average expenditure per



project under agricultural mechanization was the second highest with Rs. 12.3 crore followed by organic farming/bio-fertilisers with Rs. 10.5 crore.

Analysis of primary survey data revealed that some of the sample households benefited from more than one programme implemented under RKVY. The highest proportion of farmers surveyed benefited from agriculture mechanization followed by crop development activities. Thus, more than 78 percent of farmers have benefited under these two projects. Around 14 per cent each of total sample farmers benefited from horticulture and micro/minor irrigation projects. Farmers benefited under animal husbandry constituted about 3.3 per cent. Only one farmer beneficiary was found to be covered under natural resource management and under cooperatives and cooperation. Although number of projects implemented and amount spent was relatively high for natural resource management activities followed by animal husbandry activities at the macro level, it appeared that not many recorded beneficiaries were found in the field. It is because there were overlapping or same kind of activities carried out under micro/minor irrigation and natural resource management. Many of the beneficiaries may possibly be classified under the natural resource management activities.

Distribution of beneficiaries by social categories showed that 'others' group constituted about 58 per cent of the total sample beneficiaries. The OBC beneficiary farmers accounted for the next highest

proportion with 31 per cent. The ST farmers constituted about 8 per cent, while the SC beneficiary farmers accounted for 4 per cent only. It implies that the programme as largely benefitted the dominant caste groups, while socially backward farmers have been neglected. Further, land holding pattern of sample households revealed that that RKVY has largely benefitted land owning farmers and that too irrigated regions of the state.

In case of interventions under mechanisations, about 53.3 per cent of sample households availed the benefit. The average cost of agricultural machineries per household was estimated at Rs. 49343. The proportion of subsidy at the aggregate level was Rs. 20233, which accounted for 41 per cent of the cost. It can be observed that the highest proportion of sample farmers received subsidy for purchase of rotavator followed by sprayer and pumpset. Interestingly, sample farmers mentioned that except pumpset and rotavator, almost all machineries distributed under RKVY were reportedly in working conditions at the time of field survey.

Under crop development, about a quarter of total sample households received benefits on various inputs. Average cost of inputs supplied stood at Rs. 2700 and the proportion of subsidy was estimated at 74.1 per cent. Among benefit types, about 10 per cent of the sample farmers obtained fertilizers and plant protection chemicals, and 7.6 per cent of the farmers received seeds/planting materials. Organic inputs such as biofertilisers and bio-control agents are also promoted under RKVY. Under horticulture, sample farmers received



subsidy for establishing green house, shade net and drip irrigation system. However, for animal husbandry and dairying, only 3.3 per cent of the sample farmers benefitted from various interventions. Average cost of intervention was Rs. 91157 per household and the share of subsidy in average cost was 59.9 per cent. Among the items, the proportion of beneficiaries received financial assistance for purchase of cows, poultry and construction of modern cattle shed was one cent each.

Interventions under watershed development were carried out in the form of construction of farm ponds, check dams, nala bunds, land leveling, bunding and vegetative barrier. Analysis of survey data revealed that 11.9 per cent of the sample farmers benefited from various interventions in the state of Gujarat. Average area treated by these interventions was 3.3 acres per household. Average cost of interventions was Rs. 114086 per household and share of subsidy was 100 per cent. Interestingly, except for farm ponds, sample beneficiary farmers mentioned 10-30 per cent increase in crop productivity. Increase in crop productivity is reportedly higher for farm ponds followed by nala bunds, check dams, land leveling and bunding. Sample farmers also reported a substantial proportion of increase in income due to interventions under watershed development.

With respect to institutional projects, a relatively large number of them were focused on extension. In fact, extension accounted for 23 per cent of the total projects. The second highest number of infrastructure projects

were implemented under marketing and post harvest management followed by animal husbandry, innovative programmes/training and capacity building and seed. Out of the total number of institutional/infrastructure projects about 74 per cent of them were completed and 17 per cent were ongoing. Achievement of outputs can be seen in terms of creation of assets such as establishing mobilising laboratories, pesticide and bio-control laboratories, construction of community irrigation facilities, soil and water conservation structures, construction of shallow wells, bore wells, drains, soil testing laboratories, increase in area under improved varieties and so on.

The sample farmers reported many problems in accessing the subsidy under RKVY. About 61 per cent of the sample farmers reported problems in getting too many documents for availing subsidy under RKVY. The sample farmers particularly marginal and small farmers indicated that contact details of the department which provides subsidy are not easily available. A higher proportion of the sample farmers also indicated that eligibility or other criteria for availing subsidy are not known and hence they refrain from approaching the agriculture department for more details. The sample farmer indicated a strong need for building capacity of farmers in using new technology through field visits and training programmes. Some sample beneficiary farmers indicated that timely availability and quality of inputs are very important for improving crop yield and achieving higher income.



- ii) Title of the Project : Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY) in Rajasthan
- Principal Investigator : S. S. Kalamkar and M. Swain
- Sponsored By : ISEC Bangalore (sponsored by Ministry of Agriculture, Govt. of India, New Delhi to ISEC)
- Coordinating Centre : ADRTC, Institute for Social and Economic Change (ISEC), Bangalore
- Date of Commencement : January 2015
- Date of Submission : May 2015

Summary :

The main aim of this study was to assess the impact of RKVY scheme on selected parameters of beneficiary households in the state of Rajasthan. The study is based on secondary and primary level data. The secondary data on fund allocation, release, expenditure and related parameters were collected from the RKVY website (<http://rkvy.nic.in>) and other publications of Ministry of Agriculture, Government of India. The primary survey data were obtained from 358 selected sample beneficiary farmer households from seven RKVY districts of the Rajasthan State.

In Rajasthan, RKVY project comprises of 18 major sectors and includes many sub sectors. Out of the 18 sectors, seven sectors absorbed 82 per cent of the expenditure. Among the major sectors, micro/minor irrigation utilized the major funds, followed by horticulture, seed, crop development, dairy development, extension and fertilizers & INM. In order to develop the infrastructure and assets in the agriculture and allied sectors, the State under RKVY allocated 63 per cent of the

total expenditure to infrastructure projects. If one looks at the agriculture performance in the State one finds the priority areas chosen by the State are more or less justified. Most of the Rajasthan receives scanty rains due to its location and hence crops suffer due to moisture stress. Development and expansion of irrigation is the priority area for intervention. The major emphasis of micro/minor irrigation projects was on developing storage facilities, conservation of water and efficient use of available water. Development of plastic covered diggies programme was at the forefront. Construction of storage tanks with 2 lakh litre capacity, construction of farm ponds and provision of sprinkler irrigation sets along with solar water pumps was the strategy adopted for augmenting irrigation in the State. Similarly, emphasis on improvement in quality and production of low volume high value crops such as fruit is appreciable. The other priority areas like development of horticulture, seed and crop development also indicate the States' objective of increasing crop productivity. The State is hit by a drought every three years and by a major drought every five years. However,



some priority should have been given to drought proofing with emphasis on dry land agriculture which is also most important for increasing farmers' income.

The findings of the primary survey reveal that some of the sample households benefited from more than one programme implemented under RKVY. At the aggregate, the highest numbers of beneficiary surveyed belonged to crop development followed by minor/ micro irrigation. The crop development and Micro/ minor irrigation together represented more than 75 per cent of the beneficiaries in sample. Households benefitting from horticulture and animal husbandry programmes/schemes shared together about 21 per cent of the total beneficiaries. Agricultural mechanization, cooperatives and cooperation and fisheries together accounted for roughly 4 per cent of the total sample.

The intervention cost for the major sectors was Rs. 12,767 for mechanisation; Rs. 908 for crop development; Rs. 3.5 lakh for horticulture; Rs. 2.9 lakh for micro/minor irrigation and Rs. 2,524 for animal husbandry and dairy. The respective subsidy was Rs. 5,462 per beneficiary household for mechanisation; Rs. 866 for crop development; Rs. 2 lakh for horticulture and Rs. 1.5 lakh for micro/minor irrigation and Rs. 828 for animal husbandry and dairy. It is pertinent to note that in the case of mechanisation, households created new assets in order to avail the subsidy benefit whereas in crop development subsidy was given for the components like seed, fertiliser, bio-fertiliser and micro nutrients, etc, most of which were used by the households for growing usual crops.

A majority of farmers indicated about 10 to 20 per cent increase in their productivity as a result of investment in mechanical implements and 10 to 20 per cent or less in the case of crop development. The beneficiary farmers also indicated that the investment in mechanical implements helped their agricultural operations by saving labour and enabling timely sowing. In horticulture the intervention was to construction of green house, ripening chamber, provision of storage bins for storing onions and supply vegetable seeds, mini kits of fertilizers, saplings of fruit trees, and provision of plastic crates for packaging and transportation of vegetable crops. The farmers experienced no change in productivity, cost or over all income due to the intervention. The government of Rajasthan implemented crop development program and provided improved seeds and planting material, fertilizers and plant protection chemicals, bio fertilizers/ bio control agents and other area based incentives. Most of the farmers responding the query reported 10 to 20 per cent increase in productivity. The households who obtained subsidy for farm pond / open wells indicated 30 to 50 per cent increase in irrigated area but experienced 10 to 20 per cent increase in their productivity and less than 10 per cent increase in income.

Per household investment in animal husbandry stood at Rs. 2,524 and subsidy amount was Rs. 828. Majority of the fodder chopper beneficiaries reported an increase in the productivity less than 10 per cent as a result of intervention. Among the selected beneficiary 42 per cent undertook training and capacity building activities. Almost 81 per cent of the households those attended



training, propounded that the field visits were helpful in learning new technology or practices. They felt that there is a need to further expand the capacity building activities with focussed areas. The additional plus of RKVY programme was creation of employment. On average 3 days of additional employment per household constituting 1 day of own and 2 days of hired labour was created annually by the activities of RKVY in the State. The constraints faced by the households approaching RKVY were many and to mention a few: the eligibility criterion for availing RKVY subsidy was not known; lack of institutional credit facility; Information about RKVY programme details were not available; capacity building/technical advice was not provided; details of the department which pay subsidy were not available; procedure for subsidy was very tedious; and numbers of documents required for availing subsidy were too many. When asked about the strong points about RKVY Programme, almost all the beneficiaries reported that provision of subsidies and financial help facilitated investment in acquiring farm machinery and equipments,

livestock, development of infrastructure, adoption of and diversification of agriculture which otherwise would have been difficult.

About the infrastructure projects in the State, the main focus was on research, animal husbandry and dairy development, seed, cooperatives and cooperation, crop development, extension, organic farming/ bio fertilizer and NRM. Achievements of infrastructure project included establishing Cytogenetic investigation laboratories for animals, improving AI delivery system, integrated dairy farm parks, establishment of breed villages for sheep and goat, mobile laboratories, pesticide and bio-control laboratories, soil and water conservation, soil testing laboratories, increase in area under improved varieties and so on. Outcomes of the projects, as reported by the implementing agencies, among others included increase in productivity of various crops, improved soil fertility, improved water infiltration, increased seed germination, reduced cost of cultivation, improved training facilities, increased milk yield and enhanced farmers' knowledge and skill in doing farming activities.

- iii) Title of the Project : Soil Health Card Programme in Gujarat: Implementation, Impacts and Impediments
- Principal Investigator : M. Swain and S.S. Kalamkar
- Sponsored By : Centre for International Project Trust (CIPT), New Delhi
- Coordinating Centre : -
- Date of Commencement : June 2015
- Date of Submission : January 2016

Summary:

The present study examined the level of adoption and constraints in the application

of recommended doses of fertilisers by small and marginal farmers, impact on crop productivity and relevant institutional



problems faced by these farmers in the state of Gujarat, India. The study is based on both secondary and primary level data. The primary data were collected from the four selected districts of Gujarat in India for the reference year 2013-14. The farmers who got their soil tested during the last three years (2010-11 to 2012-13) were included for the detailed analysis. The two major crops grown in the state (groundnut and cotton) were selected for the detailed study. The household survey was administered on 400 farmers from 8 talukas of four districts.

Since green revolution period, the fertiliser application has tremendously increased. The indiscriminate use of chemical fertilisers by farmers has led to deterioration of soil structure, wastage of nutrients, destruction of soil microorganisms and scorching of plants at the extreme cases. The Government of India has undertaken initiatives to encourage the farmers for balanced use of fertilisers. Among various states of India, Gujarat has been a leading state in streamlining these programmes, among which Soil Health Card Programme is a major one. Under this programme, Soil Health Cards are being provided to all farmers in the country at an interval of 3 years so as to enable the farmers to apply appropriate recommended dosages of nutrients to realize improved and sustainable soil health and fertility status and also higher per unit yields. As part of this massive programme, soil samples testing and distribution of SHC to farmers are carried out on a regular basis as per the norms. The present study was an attempt to examine the effectiveness of the programme in assuring better soil health, more crop productivity

and problems and prospects in adoption of recommended doses of fertilisers by farmers in Gujarat. The present study is based on both secondary and primary level data. The reference year for the study is 2014-15 and data were collected from total 720 sample households, out of which 480 were the soil test farmers and 240 were the non-soil test farmers.

Gujarat is the leading state in India in streamlining the Soil Health Card (SHC) Programme for the benefit of farmers at the grass-root level. So far, a total of 53.69 lakh soil health cards have been generated and given to farmers by the end of 2013-14. Out of which, 6.26 lakh soil health cards have been distributed in the year 2013-14 alone. The programme has generated alternative crop planning and recommendations for 229 Talukas and 24324 villages and generated all Talukas and Villages Model Action Plans. Along with increase in number of SHCs distributed to farmers from 2.27 lakh in 2004-05 to 53.69 lakh in 2013-14, the number of soil testing labs (STL) has also increased from 20 in 2004-05 to 134 in 2013-14 at the rate of 17.9 per cent per annum. Similarly, the annual soil sample analyzing capacity has increased from 2.34 lakh in 2004-05 to 10.3 lakh in 2013-14. The actual soil sample analyzed has increased at the rate of 10.0 per cent per annum, i.e. from 3.23 lakh in 2004-05 to 7.64 lakh in 2013-14. During 2015-16, the 9, 20,000 cards have been distributed against the target of 68, 30,000 in the state. The distribution of SHCs has been more or less even across districts in Gujarat. The share varies mostly from 3 per cent to 6 per cent depending on the size of the districts.



The consumption of NPK in Gujarat has increased from 3.57 lakh metric tonnes in 1980-81 to 19.39 lakh metric tonnes in 2010-11, implying an increase by 5.4 times. The NPK consumption per hectare of gross cropped area (GCA) has also increased by 16.5 per cent, from 32.6 kg in 1980-81 to 138.1 kg in 2010-11. But it has declined thereafter to 109.0 kg/ha in 2012-13. The total consumption of NPK in the state has also decreased from 19.39 lakh metric tonnes in 2010-11 to 13.42 lakh metric tonnes in 2012-13. The decline in fertiliser consumption during the later period may be partly due to increased awareness generated by the Soil Health Card (SHC) programme in the state about the negative consequences of application of overdoses of fertiliser and positive effects of balanced fertiliser application on soil health. However, the NPK ratio has been gradually diverged from the ideal ratio of 4:2:1. It has diverged from 4.9:2.8:1.0 in 1980-81 to around 10.0:8.0:1.0 in 2015-16, in spite of implementation of SHC Scheme since 2003-04.

The household level analysis indicates that Soil Health Card (SHC) programme is highly beneficial programme for sustainable growth in agriculture; however, it needs to be further strengthened by amending the prevailing shortcomings. It was noticed that, in view to achieve the quantity targets fixed for some period/s, quality norms were not given proper attention. As a result, a majority of farmers did not use the cards judiciously. They could not attach more importance to it over their own long experiences of farming. In majority of cases, it was found that the SHCs were not given to the farmer or these

were not in custody of farmers. Those were kept together somewhere with some officials or local leaders. Thus, in true sense, it was no use to the farmers. Depending on nutrient availability in soils, the recommended doses of fertiliser for different crops are expected to vary from region to region and from agro-climatic zone to zone. However, in the case of some important crops like groundnut, castor, wheat and bajra, same was not reflected in the SHCs provided to the farmers. It was observed that many farmers even failed to understand the content of the card. They failed to calculate the recommended doses of various fertilisers required for their pieces of lands. Thus, the information on SHC should be provided in simple format and understandable language.

It was observed that the level of adoption of recommended doses by the soil test farmers was reasonably less due to various constraints, viz. difficulty in understanding and following application of recommended doses as stated in Soil Health Cards, unavailability of technical advice on method and time of fertiliser application, and high prices of fertilisers. Adequate efforts should be made to eliminate such constraints in order to increase the adoption level of recommended doses of fertilizers. Due to lack of awareness among the farmers, the spread of SHC programme was restricted. Therefore, special Gram Sabha or training programmes should be organized to train/educate farmers or to raise the awareness level regarding importance of soil test, scientific method of collection of soil sample, how to read and understand SHC and what are the benefits of applying recommended doses of fertiliser.



The inadequate number of Soil Testing Lab (STLs) in the State has severely affected the quality of service provided to the farmers, as opined by the most of the sample farmers. Therefore, adequate STL facility should be created/made available in nearby areas, at least at the Taluka level.

The soil samples collection need to be monitored properly since about 50 per cent of soil test farmers did not know when the soil samples from their lands were collected. Such findings raises questions about the reliability of the soil test results and debilitating farmers' confidence on the recommendations given in the SHCs. Therefore, necessary steps to be taken to ensure quality implementation so as to raise the confidence level of the farmers. One way to raise the level of confidence of the farmers is to demonstrate the usefulness of the recommendations by applying recommended doses of fertiliser on experimental plots at every village or at least

at Gram Panchayat level. If the better results can be demonstrated on the experimental plots compared to farmers' field, farmers will be self-motivated to have SHCs. Drawing soil sample in field is a laborious job. Time required to draw one soil sample may take at least one hour or so (after reaching on the field). For obtaining better results, proper sampling implements need to be provided to the farmers' friend (Gram Mitras) and their remuneration may be increased. At present they get Rs 15 per sample which happens to be very less for the required job (since this token amount also includes collection charges, primary requirement like sample bag, woven bag, forms, marker pen as well as transportation charges of samples). Since the compensation rate is seems to be very low, it may have forced them adopting the wrong methods to achieve the targets, which may affect the success of entire programme in future.

- iv) Title of the Project : Evaluation and Assessment of Economic Losses on account of Inadequate Post-harvest Infrastructure Facilities for Fisheries Sector in Gujarat State
- Principal Investigator : H. Sharma, M. Swain and S. S. Kalamkar
- Sponsored By : Ministry of Agriculture & Farmers Welfare, Government of India, New Delhi
- Coordinating Centre : AERC, Chennai (Tamil Nadu)
- Date of Commencement : August 2015
- Date of Submission : March 2016

Summary:

The overall aim of the study was to examine the economic losses on account of inadequate post-harvest infrastructure facilities for the

marine fisheries sector in Gujarat, India. The study is based on both primary and secondary data. The secondary data on growth, species composition, catch disposition, the market



and processing infrastructure at state level were collected from the publication of Commissionerate of Fisheries, Government of Gujarat, Gandhinagar. The present study was conducted at three fishing harbours i.e. Veraval, Porbandar and Mangrol fishing harbours of Gujarat. From each site, stakeholders involved in the supply chain viz. fishermen/boat owner (60), wholesalers/traders/retailers (75), small processors and exporters (12) and Government officials (02) were interviewed during month of October 2015 to collect information on the various aspects including fish quality and loss assessment data.

Gujarat is the northern most maritime State on the west coast of India situated between 20.6 and 24.42 degrees latitude and 68.10 and 74.28 degrees east longitude. Gujarat has one of the richest fishing grounds in India and the most important commercial varieties of fish (such as Pomfret, Hilsa, Bombay duck, Ribbon fish, Catfish, Rays, Cuttle fish, Shrimps etc.). Thus, Gujarat possesses a vast resource with favourable climates and environment condition for flourishing fish production through aquaculture. Gujarat is endowed with a wide range of marine and inland aquatic resources. The state has a long coastline extending to 1600 km accounts for 19.70 per cent of the total coastline of the country and about 46 per cent of the western coastline of India. It has a continental shelf area of 0.18 million km², Exclusive Economic Zone (EEZ) of 0.214 million km², which occupies 32 per cent of the continental shelf area and 10 per cent of the total EEZ of India. The Gujarat coast, including the two Gulfs, is blessed with physical features congenial

to the development of fisheries. The major fisheries resources of the state include Elasmobranchs, Bombay ducks, Sciaenids, Shrimps, Seer fishes, Tunas, Threadfin Breams, Pomfrets, Catfishes, Lizard fishes, Bull's eyes, Carangids, Anchovies, Ribbon fishes, Croakers, Prawns, Lobsters and Cephalopods. Along the coastline of Gujarat, 851 fishing villages/towns and 286 marine landing centers are located. Gujarat has 123 fish landing centers located in 226 fishing village. About 19 per cent of the landing centers are located in Valsad district followed by 15.45 per cent in Kutch district and 13.82 per cent each in Jamnagar and Junagarh and 8.13 per cent in Surat district. About 55062 fisherman family and 316972 fisher folk population is located in fishing villages.

Over the last five decades, fisheries sector of Gujarat has undergone radical changes. While marine resources of Gujarat are spread mainly in the Arabian sea, the inland waters in the form of rivers, canals, estuaries, ponds, reservoirs, brackish water impoundments, waterlogged areas etc. constitute a bed rock of inland fisheries in the state. The total fish production in the State has increased by almost ten times during last five decades period, i.e. from 0.79 lakh metric tonnes in 1960-61 to 7.93 lakh MT in 2013-14. The state has taken necessary steps in order to achieve the targets fixed for both inland and marine fish production in State. Out of the total production of 7.93 lakh MT in 2013-14, about 88 percent was marine fish while remaining 12 per cent was inland fish production. Thus marine fish dominates the fish production in Gujarat. Gujarat is the third highest fish producer in India (after West



Bengal and Andhra Pradesh) and the largest producer of marine fish. However, Gujarat's share in the total fish production has been fluctuating in volume terms and has come down in value terms in the last decade. The main reason could be the declining fish catch and quality of catch. It is reported that 35 per cent of the catch in the marine sector is low value miscellaneous fish. As mentioned earlier, in total marine fish production in the state, small sciaenid accounts for around 27 per cent followed by Bombay duck (14.30%), ribbon fish (5.63 %), Cuttle fish (3.85%) and catfish (3.6 %) in the year 2012-13.

The data on districtwise marine production in Gujarat during 2004-05 to 2014-15 indicate that Junagadh district contributes the bulk of the marine landings (40.79%), followed by Valsad (13.39%), Porbandar (13.28%), Kutch (10.12 %), Jamnagar (9.73%), Amreli (7.26%) and Navsari (4.0%). The remaining districts such as Bhavanagar, Rajkot, Surat, Baruch and Kheda accounts for less than one percent share in total. The Saurashtra coast between the Gulf of Kutch and Gulf of Cambay, presents unique oceanographic features and is endowed with a wide variety of highly relished table fishes. An incredible achievement of the state has been made in the foreign exchange earnings through export of fish and fish products. There are 5 fish harbours existing in the state. They are located in Dholai, Jakhau, Veraval, Mangrol and Porbandar with total fish production capacity of 388000 metric tons and another 5 harbours have been proposed to be established in the state. Junagadh district has two major harbors, viz. Mangrol and Veraval are with the highest fish production

capacity of 235000 MT. Out of 14200 fishing crafts, 6500 are in Veraval, 3500 are in Porbandar and 2800 are in Mangrol. As per 2007 Census, the state had 28706 boats; of which 18536 boats were mechanized and 10170 boats were non- mechanized. In the year 2012-13, total 36770 boats were in operation near Gujarat coast, of these 24612 boats were mechanized and 12158 boats were non- mechanized. During the period from 2000-01 to 2012-13, annual rate of growth of fishing boats was estimated to be 1.88 per cent, while same was 2.86 percent per annum for mechanized boast. However, rate of growth was negative in case of non-mechanized during the same period.

The post harvest infrastructure in marine sector in Gujarat seems to have received less attention. It is also true that as the industry has been pre-occupied with the exports, no major initiatives have been made for the development of the domestic market (may be due to less demand). Fish is by and large sold in the most unhygienic conditions and this area needs considerable intervention in the coming period. It was observed that the post-harvest fish losses occur at all stages in the fish supply chain from capture to consumer. Huge physical and quality losses were found to occur in supply chain, with economic losses reported to account for around Rs. 18/kg mainly due to poor post-harvest infrastructure. The handling and processing with minimum spoilage is a distant reality and considerable attention needs to be paid on this aspect.

In governments and development agencies should ensure that changes in post-harvest fisheries-related policy and practices take



stock of the loss assessment tools, information generated and experience of the programme. Fish loss assessments should be incorporated into national data collection systems and used regularly to inform policy. The fishermen and boat owners should be provided training on proper handling, transport and processing of fishes by the government and cooperative organization.

Fishing harbours are being developed at both major and minor ports. However, the condition of washing and cleaning facilities available at selected harbours was unsatisfactory at Porbandar and Mangrol while same was very poor at Veraval harbor. Also the facilities like clear landing platform and cold storage/chill plants within the FH premises and availability of insulated storage boxes on board the fishing vessel need to be ensured. The retail markets are unhygienic and lack basic facilities that to when more than 90 percent retailers are women. Most of whole fish is sold in the market and there is no processing/value-addition. The retail markets operate in open sky condition and thus in view of less availability of ice, quality of fish deteriorates very speedily.

The dredging problem i.e. loading and unloading of fish due to non-navigable depth near sea shore has been faced by fishermen and therefore harbors dredging needs to be carried out regularly. It was reported that the prices of fish generally drop down sharply when there is glut in the market mostly during the rainy season (October to December), and therefore marketing and processing activities need to be strengthened by the government. Balancing technical interventions to improve fish quality with the potential increase in

selling prices, associated with better quality fish with the demand for cheaper fish by low income consumers, is an important dilemma.

The fish breeding places need to be protected from encroachment as well as fishing activity should be strictly prohibited during the ban period. The dumping of hazardous chemical waste from industries located nearby sea shore (particularly at Veraval and Porbandar) not only affect the fish quality due to polluted water but also results in dying and moving away of good species of fish from the harbor area. That force the fishermen to go far way (till Pakistan border) to catch good fish. Therefore, dumping of industrial waste should be prohibited effectively. The harbors like Porbandar and Veraval are overcrowded due to less space in harbor region and large number of boats parked there than its capacity. Because of same, fish catch exceeds the capacity of harbor. Therefore, there is a need of expansion of harbor regions as well as constructions of more number of jetting/ landing platforms.

The limited availability of funds and inadequate staff with fisheries department at harbor level hinder the overall supervision as well as progress in development of infrastructure in harbor region. Therefore, level of administrative and financial autonomy at harbor should be increased with sufficient fund availability so that infrastructure and developmental activities at harbor regions can be stepped up. Though it is prohibited by the law, the catching of young fish is still continuing on larger scale which affects the future growth of fish volume and thus fish management in region. Therefore, strict monitoring of catching of young fish at harbor level needs to be undertaken.

- v) Title of the Project : Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan (2015-16)
- Principal Investigator : Mrutyunjay Swain
- Sponsored By : Ministry of Agriculture & Farmers Welfare, Government of India, New Delhi
- Coordinating Centre : ADRTC, ISEC, Bangalore
- Date of Commencement : On-going
- Date of Submission : Quarterly data submission (April, July, October and January)
- Objective of the Project: :
- Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan on quarterly basis.



Field visit with the officials of Ministry on 15.01.2016 (Village Vanadra, Dabhoi, Vadodara)
(with Ms. Sangeeta Verma & Shri Chander Kant)



Visit to polyhouses with officials from Ministry on 15.01.2016
[protected cultivation of flowers, owned by Shri G. D. Kanitkar located on farm in Aaklav Tahsil of Anand district- polyhouse constructed with financial support of National Horticulture Board]



Field visit to Cotton Field (Village Vidaj, Tehsil Kadi, Dist. Mehsana)
with Ministry officials on 16.01.2016



PROJECTS IN PROGRESS

- i) Title of the Project : Impact Assessment and Evaluation of Ration Balancing Program in Gujarat state
- Principal Investigator/s : S. S. Kalamkar, H. Sharma and V. Boyal
- Associated Research Staff : Shri M. C. Makwana, Ms. K. M. Kapadia, Shri T. B. Parihar, Ms. P. J. Patel and Mr. S. Panchal
- Sponsored By : National Dairy Research Institute (NDRI), Karnal, Haryana (Project sanctioned to NDRI by National Dairy Development Board (NDDB), Anand
- Coordinating Centre : National Dairy Research Institute (NDRI), Karnal, Haryana
- Date of Commencement : May 2015
- Objectives of the Study :
- 1) To evaluate the efficacy of RBP in increasing milk yield and/or reducing feed cost
 - 2) To examine the quality of service delivery by End Implementing Agencies (EIAs) and implementation of record keeping through use of the information technology (INAPH/ MIS)
 - 3) To assess the reporting & monitoring systems and institutional capacity building at various levels in the context of the RBP for ascertaining the provisioning of these services on a sustainable basis to the milk producers
 - 4) To document the innovative practices followed by EIAs to implement and make the RBP sustainable.
 - 5) To identify the bottlenecks, if any, in the implementation of this on-going program and take the remedial measures accordingly, for a successful completion by the end of project period.
- ii) Title of the Project : Assessment of the Status of Dairying and Potential to Improve Socio Economic Status of the Milk Producers and Convergence of all Central and State schemes at district level in India
- Coordination Report- covering the states of Assam, Bihar, Chhattisgarh, Jharkhand, Odisha, Eastern UP, West Bengal, Gujarat and Rajasthan
- State Reports : Gujarat and Rajasthan



Principal Investigator/s : S. S. Kalamkar and H. Sharma
Associated Research Staff : Shri M. C. Makwana, Ms. K. M. Kapadia,
Shri T. B. Parihar, Shri M. R. Ojha, Shri N. G. Chauhan,
Ms. Rinku Rathod, Shri Jaswant N. Singh
Sponsored By : Ministry of Agriculture & Farmers Welfare, Government of
India, New Delhi

Coordinating Centre : AERC, Vallabh Vidyanagar

Date of Commencement : December 2015

Objectives of the Study :

- 1) To evaluate the efficacy of RBP in increasing milk yield and/or reducing feed cost
- 2) To examine the quality of service delivery by End Implementing Agencies (EIAs) and implementation of record keeping through use of the information technology (INAPH/MIS)
- 3) To assess the reporting & monitoring systems and institutional capacity building at various levels in the context of the RBP for ascertaining the provisioning of these services on a sustainable basis to the milk producers
- 4) To document the innovative practices followed by EIAs to implement and make the RBP sustainable.
- 5) To identify the bottlenecks, if any, in the implementation of this on-going program and take the remedial measures accordingly, for a successful completion by the end of project period.

iii) Title of the Project : Working of Pressurized Irrigation Network Systems (PINS) in
India

Coordination Report- covering the states of Rajasthan,
Gujarat, Maharashtra and Telangana.

State Reports: Gujarat and Rajasthan

Principal Investigator/s : M. Swain, S.S. Kalamkar and H. Sharma

Associated Research Staff : Shri M. R. Ojha, Ms. K. M. Kapadia, Shri T. B. Parihar,
Shri M. C. Makwana, Shri N. G. Chauhan, Ms. Rinku Rathod,
Shri Jaswant N. Singh, Ms. P. J. Patel



- Sponsored By : Ministry of Agriculture & Farmers Welfare, Govt. of India, New Delhi
- Coordinating Centre : AERC, Vallabh Vidyanagar
- Date of Commencement : December 2015
- Objectives of the Study :
- 1) To undertake a broad situation analysis of various PINS programs implemented in select states of India;
 - 2) To assess the extent of adoption and performance of PINS in terms of costs, benefits and adoptability for different crops
 - 3) To analyse the institutional arrangements for management, operation and maintenance of PINS
 - 4) To identify the major constraints in adoption, management, operation and maintenance of PINS.
- iv) Title of the Project : Study on Causes of Farmers Suicides In Gujarat and Rajasthan
- Principal Investigator/s : S. S. Kalamkar and M. Swain
- Associated Research Staff : Shri T. B. Parihar, Shri M. C. Makwana, Ms. K. M. Kapadia, Shri M. R. Ojha, Shri N. G. Chauhan, Ms. Rinku Rathod
- Sponsored By : Ministry of Agriculture & Farmers Welfare, Government of India, New Delhi
- Coordinating Centre : ADRTC, ISEC, Bangalore
- Date of Commencement : December 2015
- Objectives of the Study :
- 1) To analyse the incidence and spread of farmer suicides in selected states and to map the hot-spots of suicide;
 - 2) To study the socio-economic profile, cropping pattern and profitability of victim farm households.
 - 3) To study the causes leading to farmers' suicides including production and market risks, sociological, psychological and other family related factors responsible for farmer suicides.
 - 4) To recommend suitable policies to alleviate the incidence of farmers' suicides.



- v) Title of The Project : Impact Assessment of Crop Insurance Scheme in Gujarat and Rajasthan
- Principal Investigator/s : M. Swain and S. S. Kalamkar
- Associated Research Staff : Ms. K. M. Kapadia, Shri T. B. Parihar, Shri M. C. Makwana, Shri M. R. Ojha, Shri N. G. Chauhan, Ms. Rinku Rathod, Shri Jaswant N. Singh
- Sponsored By : Ministry of Agriculture & Farmers Welfare, Govt. of India, New Delhi
- Coordinating Centre : Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad
- Date of Commencement : December 2015
- Objective of the Study :
- To study the impact of crop insurance scheme in Gujarat & Rajasthan
- vi) Title of The Project : Pilot Study for developing state level estimates of crop area and production on the basis of sample sizes recommended by Prof. Vaidyanathan Committee Report - Gujarat State
- Principal Investigator/s : S. S. Kalamkar, S. R. Bhaiya, M. Swain and H. Sharma
- Associated Staff : All Office and Field staff of AERC and CCS
- Sponsored By : ICAR-Indian Agricultural Statistics Research Institute (IASRI), Pusa, New Delhi (funded by Ministry of Agriculture & Farmers Welfare, Govt. of India, New Delhi to IASRI covering five states)
- Coordinating Centre : ICAR-Indian Agricultural Statistics Research Institute (IASRI), Pusa, New Delhi
- Date of Commencement : March 2016
- Objective of the Study :
- To conduct pilot study to generate reliable estimates of area and production of selected crops in Gujarat, as per methodology suggested by the Vaidyanathan Committee.

- vii) Title of the Project : Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan (2016-17)
- Principal Investigator : Mrutyunjay Swain
- Associated Research Staff : Ms. K. M. Kapadia, Shri M. R. Ojha
- Sponsored By : Ministry of Agriculture & Farmers Welfare, Govt. of India
- Coordinating Centre : ADRTC, ISEC, Bangalore
- Date of Commencement : Quarterly – on going project.
- Objective of the Project :
- Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan on quarterly basis.



Meeting at NDDDB, Anand to discuss project on “Ration Balancing Programme’ project (with Dr. Smita Sirohi, Principal Scientist, NDRI, Karnal) on June 4, 2015



AERC Team visit to Dhajaba village (Vyara, Tapi) for RBP Project data collection work (June 19, 2015)



AERC Team discussing with SUMUL Dairy Officer during RBP project data collection work at Dhajamba Village (Vyara, Surat)



AERC Team - Data collection work for RBP Dairy Project in Banaskantha district Village Jasara, Deesa, Banaskantha (July 6-12, 2015)



PUBLICATIONS

List of research papers/articles, books, chapters in edited book published during the year:

A) Research Papers/Articles Published:

- “Government Interventions in the Marketing of Selected Agricultural Commodities in India, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 29, No. 2, May-August 2015, pp. 50-76, by S. S. Kalamkar.
- “Agricultural Diversification towards Horticulture in Rajasthan: Prospects and Challenges”, Agricultural Situation in India (ISSN: 0002-167), Vol. LXXI, No. 3, June 2014, pp. 5-13, by M. Swain, S.S. Kalamkar, M. Ojha and S. Sharma.
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D) Rapporteurs Report/Book Reviews/Articles/Abstracts in Magazines

- Rapporteur Report on Technical Session I, II and III of National Seminar on ‘Schemes for Change in Indian Economy: Needs for Continuity and Consistency’, jointly organized by N.S. Patel Arts College, Anand and AERC during 18-19 of March, 2016, respectively by M. Swain, S. R. Bhaiya and Hemant Sharma.
- Rapporteur report on Session 4 and 5 in the UGC Sponsored seminar on Livestock Farming: Economics Issues, Policy and Challenges’ organized by PG Department of Economics, SP University, VVN, on January 21-22, 2016, respectively by M. Swain and S. R. Bhaiya.
- Rapporteur report on Theme 1 of Annual Conference of Gujarat Economic Association held Hemchandracharya North Gujarat University Patan, during February 19-21, 2016, by S. R. Bhaiya.
- Reviewed a book ‘Weaker Sections: Rural Development and Education’ edited by Dr. Baldev Agja, First edition 2015, published by Publish World (pwisbn@gmail.com), Anand Gujarat (ISBN – 987-81-928910-7-1), by S. R. Bhaiya.
- Reviewed a book ‘Weaker Sections: Political Social Management in Indian Context’ edited by Dr. Baldev Agja, First edition 2015, Published by Publish World (pwisbn@gmail.com), Anand Gujarat (ISBN – 987-81-928910-6-4) by S. R. Bhaiya.

E) Publications released by the Centre

- Centre has prepared two booklets (in local language) compiling almost all the government schemes related to agriculture and allied sectors in the state of Gujarat and Rajasthan.
- Gujaratani Krishi Vishayak Yojanao (Gujarati for Gujarat state)- Compiled by Dr. S R. Bhaiya, Shri Manish Makwana and Shri R. I. Patel.




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- Krishi, Udyan yevam Pashupalan Vibhag ki Yojanaye yavam Janakari- Rajasthan Rajya (Hindi for Rajasthan state) - compiled by Dr. Hemant Sharma and Shri M. R. Ojha.
- Since July 2015, Centre has stated monthly newsletterAgricultural Production and Market Outlook (in Gujarati and English language) with an aim to provide improved regional linkages in the generation, dissemination and sharing of agricultural information for better decision making. The magazine Committee consist of following members
 - Chairman- Dr. Harish Padh, Hon VC, SPU
 - Hon. Advisor- Dr. Mahesh Pathak
 - Chief Editor- Dr. S. S. Kalamkar
 - Associate Editors- Dr. H. P. Trivedi and Dr. D. J. Chauhan
 - Managing Editor- Dr. Hemant Sharma
 - Subject Editors: Dr. M. N. Swain, Dr. S. R. Bhaiya, Shri Manish Makwana
 - Circulation Incharge- Shri Deep K. Patel
 - Centre prepared and published a leaflet in Gujarati language on “Sampling Procedure for Soil and Water Testing”, jointly with Krishi Vigyan Kendra, Dethali, Matar, Kheda and Centre for International Project Trust, New Delhi.



Dr. Hemant Sharma performing as a Rapporteur in 29th annual conference of ISAM at MPUAT, Udaipur during October 28-30, 2015


ગુજરાતની કૃષિ વિષયક યોજનાઓ



એગ્રો-ઇકોનોમીક રીસર્ચ સેન્ટર
(કૃષિ મંત્રાલય, ભારત સરકાર, નવી દિલ્હી)
સરદાર પટેલ યુનિવર્સિટી
વલ્લભ વિદ્યાનગર-૩૮૮ ૧૨૦,
વિ. આણંદ, ગુજરાત, ભારત

કૃષિ, ઉદ્યાન અને પશુપાલન વિભાગ કી યોજનાएँ एवं जानकाटी राजस्थान राज्य

રાજસ્થાન : કૃષિ જલવાયુવીચ ક્ષેત્ર



એગ્રો-ઇકોનોમીક રીસર્ચ સેન્ટર
(કૃષિ મંત્રાલય, ભારત સરકાર, નવી દિલ્હી)
સરદાર પટેલ વિશ્વવિદ્યાલય
વલ્લભ વિદ્યાનગર ૩૮૮૧૨૦
જિલ્લો: આણંદ, ગુજરાત, ભારત

Market Outlook- Monthly magazine (Gujarati & English)



કૃષિ ઉત્પાદન અને બજાર દર્શન
કૃષિ ઉદ્યમ...

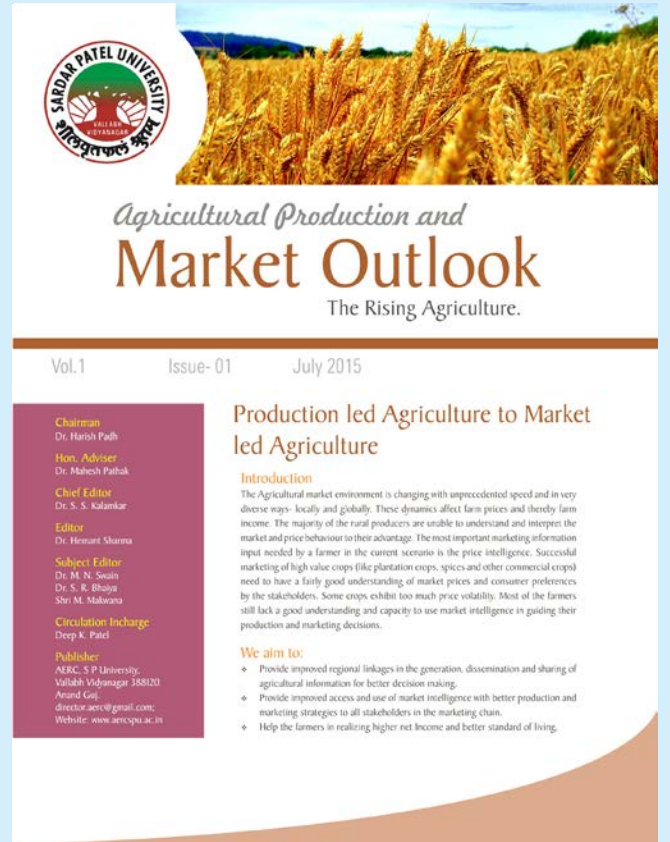
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કૃષિક્ષેત્રમાં ઉત્પાદન પ્રેરીત અભિગમ તરફથી બજાર પ્રેરીત અભિગમ તરફ પ્રયાણ
મરતાપના

કૃષિક્ષેત્રમાં પર્યાવરણ બુલંદગામી તુલામાં અને તેના જુદા જુદા પાસાંઓમાં રચાયેલિત વલચલી માંડિને વૈવિધ્ય વલચ સુધી પુન જ સ્કડમલી વલલાં વસું છે. પ્રવલુત ઉલ્લાભવ દેસલ્લો ઘેત કિંગ્ડોને અલવ ક્ષે છે તેના દ્વારા ઘેત અલવલો વલ અલવ લાવ છે. ટેલના મોલ બાગના કમિલન (લલાંલો વલકલા બાલ દેસલ્લોને અલવલન કરવા અલવમાં છે અને તેની તેમની તેમના મોલે લાનો મેલવા વલ અલવ અલી ક્ષવ છે. વલમન વલચિલ્લોમાં મેલુ મોલે અલી મલવનુ વલચનુ માલિલિલ્લો ઝોલ નિલેપ લેવ તો તે જુદા જુદા બલ્લોમાં કૃષિ બલવ વિલવ જલકાલી છે. કિલ્ય કિલ્લો વલચલા પાલો (જેવાં કે વ્લાગલલી પાલો, મલચલા પાલો, અને અલવ વલચિલ્લ પાલો)માં મેલુ બલચમાં સલન લાવ તે મોલે તેની પલ્લો ઉપલોલ્લામ્લોની પલ્લોની અને બલચ બલ્લોની સલરી એલી સમજલ લેલી જલ્લી છે. ડેલચલ પાલો તેમના બલલોના સંબંધમાં પુન જ અલચિલ્લા/સંબલ્લાનુ દર્શન કરલો છે. મોલ બાગના મેલુો હલુ પલ્લ તેમના ઉલ્લાલન વિલવલ તેમજ બલચ વિલવલ નિલ્લો તેવામાં કૃષિક્ષેત્રની જલકાલી બલલો અલલાતા અને મોલી સમજલ વલચલા તેવા મોલે છે.

અમારા ઉદ્દેશો

- શેવ કૃષિલ્લી કિલ્લોને પ્રોલ્લાન અલવા મોલે પ્રોલિલ અલવલંબ વલચલી સુલ્લાસલ્લર કૃષિ માલિલીનુ સર્લન કરનુ. સોલય લીલે માલિલીની સુલ્લાલ કરવી અને આ માલિલીનીનુ ઉપલોલ્લામ્લો સર્લે તેનુ અલ્લાન પ્રલન કરનુ.
- વલચલી લીલ માલિલીનુ લીલ બલચ વલ્લાસલના દિલ્લોલની સર્લન કરનુ અને ઉપલોલ્લામ્લો આ માલિલીની ઉપલલ્લી કરલવી લલા તેના ઉપલોલ મોલે મલ કરવી.
- મેલુોનો ઉલ્લાલ સોબી અલવ અને ઉસું દ્લવલચલર પ્રલ કરવામાં મલ કરવી.



Agricultural Production and Market Outlook
The Rising Agriculture.

Vol.1 Issue- 01 July 2015

Production led Agriculture to Market led Agriculture

Introduction
The Agricultural market environment is changing with unprecedented speed and in very diverse ways- locally and globally. These dynamics affect farm prices and thereby farm income. The majority of the rural producers are unable to understand and interpret the market and price behaviour to their advantage. The most important marketing information inputs needed by a farmer in the current scenario is the price intelligence. Successful marketing of high value crops (like plantation crops, spices and other commercial crops) need to have a fairly good understanding of market prices and consumer preferences by the stakeholders. Some crops exhibit too much price volatility. Most of the farmers still lack a good understanding and capacity to use market intelligence in guiding their production and marketing decisions.

We aim to:

- Provide improved regional linkages in the generation, dissemination and sharing of agricultural information for better decision making.
- Provide improved access and use of market intelligence with better production and marketing strategies to all stakeholders in the marketing chain.
- Help the farmers in realizing higher net income and better standard of living.



જમીન અને પાણીનો નમુનો લેવાની પદ્ધતિ





એગ્રો ઈકોનોમીક રીસર્ચ સેન્ટર
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Agro-Economic Research Centre
 (Ministry of Agriculture & Farmers Welfare, Govt. of India)
Sardar Patel University





Agro-Economic Research Centre
 For the states of Gujarat and Rajasthan
 (Ministry of Agriculture & Farmers Welfare, Govt. of India)
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Dr. Smita Sirohi, Principal Scientist, NDRI Karnal, Haryana visited the Centre on June 06, 2015



PARTICIPATION IN CONFERENCES, SEMINARS, WORKSHOPS, TEACHING, WORK ON COMMITTEES, OTHER ACADEMIC ACTIVITIES

Dr. S. S. Kalamkar

- Participated at the 'IWMI-Tata Program's Planning Workshop on Ecosystem Perspective on Land, Water, Livestock and Livelihood' held at Institute of Rural Management, Anand (IRMA) during April 2-3, 2015.
- Participated at the one day workshop of sub-group on Agricultural Marketing of "Commission on Inclusive and Sustainable Agricultural Development of Andhra Pradesh" at Sardar Patel Institute of Economic and Social Research, Ahmedabad on May 15, 2015.
- Acted as a resource person and delivered two lectures on May 27, 2015 at UGC sponsored 29th Orientation Programme organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during May 18, 2015 to June 14, 2015.
- Participated in the meeting of the Expert Committee for recommendations on Minimum Support Price for Rabi crops 2015-16, held under the chairmanship of Shri Babubhai B. Bokhiriya Hon. Minister for Agriculture, at the Chamber of Hon. Minister, Swarnim Sankul 1, First Floor, New Sachivalaya, Gandhinagar, Gujarat on June 2, 2015.
- Acted as a resource person and delivered two lectures on June 10, 2015 at UGC sponsored 30th Orientation Programme organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during June 8, 2015 to July 5, 2015.
- Delivered Special Guest lecture on 'Cost of Cultivation, Market Outlook and Prices of Various Agricultural Commodities in Gujarat' at "Kheda Water Week", organized by CIPT and KVK, Kheda on June 11, 2015.
- Attended the 6th Hari Om Asram Prerit Lecture on 'Energy, Environment and Growth: The Returns of Renewables', delivered by Shri Nitin Desai, on July 3, 2015, organized by Sardar Patel Renewable Energy Research Institute, Vallabh Vidyanagar.
- Participated at the dissemination workshop of DFID Project on 'Import dependence and food and nutritional security implications: A case of pulses in India', completed by Dr. Souvik Bhattacharjya, Fellow, Centre for Global Agreements Legislation and Trade, Green Growth and Resource Efficiency Division, The Energy and Resource Institute (TERI), New Delhi, held on July 10, 2015 at India Habitat Centre, d, New Delhi.
- Participated in brainstorming session on 'Organized Retailing and Impacts on Farming Community in Andhra Pradesh', organized on July 16, 2015 at Centre for Economic and Social Studies (CESS), Hyderabad.
- Acted as External Examiner for conducting comprehensive



- examination of Ph.D. Student of Department of Agricultural Economics, College of Agriculture, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli on September 1, 2015.
- Participated at the Executive Committee meeting of Gujarat Economic Association (GEA) held at Hemchandra South Gujarat University, Patan, Gujarat on September 14, 2015.
 - Acted as External Examiner for conducting Comprehensive Examination of Ph.D. Student of Department of Agricultural Economics, College of Agriculture, Anand Agricultural University, Anand on September 15, 2015.
 - Acted as External Examiner for conducting Qualifying Viva Voce examination of Ph.D. Student of Department of Agricultural Economics, Dr. PD Krishi Vidyapeeth, Akola, Maharashtra on September 19, 2015.
 - Participated in Knowledge Sharing Meeting organized by 'Centres for International Project Trusts (CIPT)' and 'International Development Research Centre (IRDC), Canada' on the project titled "Improving Food and Livelihood Security in Punjab through Water Energy Agriculture Management under Climate Change and Variability", at India Habitat Centre, Lodi Road, New Delhi on September 30, 2015.
 - Participated in one day workshop on 'Prospects and Procedures in Agri Export Business' jointly organized by Jt. Directorate General of Foreign Trade, Vadodara; WTO Cell, Department of Agricultural Economics, B.A. College of Agriculture and International Agribusiness Management Institute at BACA, Anand on October 9, 2015.
 - Participated in the third meeting of AERC Review Committee (under the Chairmanship of Dr. S. M. Jharwal) held at Institute of Economic Growth (IEG), Delhi during October 12-13, 2015 and made presentation on functioning of our AERC and its contribution in the field of agro-economic research and utility in policy formulations.
 - Acted as an External Examiner for a manuscript of research report on "Biotechnology in Agriculture: Potential, Performance and Concerns" completed at Indian Institute of Management (IIM), Ahmadabad, October 2015.
 - Attended Board of Governances meeting of India Natural Resource Economics and Management Foundation (INREM), Anand held at INREM office, Anand on October 9, 2015.
 - Participated in National Workshop on 'Comprehensive Scheme on Cost of Cultivation of Principal Crops in India', sponsored by the Ministry of Agriculture, GOI and organized by Orissa University of Agriculture and Technology, Bhubanseshwar, Odisha during October 14-16, 2015 and made presentation on work done at CCS Gujarat.
 - Participated at the 29th National Conference of the Indian Society of Agricultural Marketing (ISAM), held at Maharana Pratap University of



- Agriculture and Technology, Udaipur during October 28-30, 2015 and presented papers on “Government Interventions in the Marketing of Selected Agricultural Commodities in India” (Technical Session I) and “Status and Experiences of Implementation of Price Support and Market Intervention Scheme In Rajasthan” (in Technical Session III).
- Visited the implementing agency of Cost of Cultivation Scheme for Rajasthan (supported by Ministry of Agriculture, GOI) i.e. Department of Agricultural Economics and Management, MPUAT, Udaipur on October 29, 2015 and discussed with the Honorary Director the innovative steps taken in field data collection, supervision and reporting.
 - Offered the comments on Ph.D. Thesis submitted by Ph.D. student of Agribusiness, at Institute of Agribusiness Management, SK Rajasthan University, Bikaner in November 2015.
 - Participated in the meeting of Coordination Committee for Organization of Studies (CCOS) chaired by Shri Siraj Hussain, Secretary (Agriculture, Cooperation & Farmers Welfare, GOI) for allocation of studies to various AER Units/Centres, held at Krishi Bhavan New Delhi on November 18, 2015.
 - Participated at 75th Jubilee Conference of Indian Society of Agricultural Economics (ISAE), held at Department of Economics and Sociology, Punjab Agricultural University, Ludhiana (Punjab) during November 19-21, 2015 and presented a paper on “Adoption of Recommended Doses of Fertiliser on Soil Test Basis by Farmers in Gujarat”.
 - Participated in the meeting of Expert Committee (GOG) for the recommendations on Minimum Support Price for kharif crops 2016-17 held on December 7, 2015 at Krishi Bhavan, Gandhinagar.
 - Acted as a resource person and delivered two lectures on December 9, 2015 at UGC sponsored 31st Orientation Programme organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during 23.11.2015 to 20.12.2015.
 - Presented project work done report on “Estimation of Changes in Income and Cost of Production owing to Changes in Inputs & Hybrid Seeds for Major Crops of Gujarat” at Directorate of Economics and Statistics, Govt. of Gujarat, Gandhinagar, Gujarat on December 10, 2015.
 - Participated in the meeting of Directors/Heads of AER Units/ Centre to finalize methodology and work allocation for 2016-17 (as recommended by the CCOS in its 19th meeting) held on 22nd and 23rd of December 2015 at AERU, Institute of Economic Growth (IEG), Delhi.
 - Acted as a resource person and delivered a talk at Rabi Farmer Convention and Farmer’s Fair, organized by Krishi Vigyan Kendra, Dethali, Kheda at Shri H.D. Parekh High School, Kheda on December 25, 2015.
 - Participated at the 98th Annual



- Conference of the Indian Economic Association (IEA), organized by Centre for Economic and Social Studies (CESS), Hyderabad, on the campus of Professor Jayashankar Telangana State Agricultural University, Hyderabad, Telangana State on December 27-29, 2015. Acted as a Co-Chairman of the Technical Session I on 'Changing Notion of Human Development and the Millennium Development Goals 2015' (Chairman- Prof. Qamar Ahsan, VC, SKM University, Dumka) of above said national conference on Dec. 28, 2015.
- Visited the National Institute of Agricultural Extension Management (MANAGE), an organization of Ministry of Agriculture (MOA), Govt. of India (GOI), located in Rajendranagar Hyderabad and discussed with Course Director of training programme on 'Agri-clinics and Agri-business Centres' of MOA, GOI, on December 27, 2015.
 - Acted as an External Expert and evaluated Ph.D. thesis for the degree of Ph.D. Economics of Alagappa University, Tamilnadu, January 2, 2016.
 - Participated in the two day national seminar at Sardar Patel Institute of Economic and Social Research (SPIESR), Ahmedabad on "Role of Public Policy in Development Process (Emerging Economic / Social Scenario in the Indian Economy)" and presented paper on "Prospects and Constraints in Implementation of Soil Health Card Programme in Gujarat" (jointly with Dr. Swain and Ms. Kalpana Kapadia) held on January 4 and 5, 2016.
 - Presented at the International Conference on Agribusiness in Emerging Economics organized and held at Institute of Rural Management, Anand (IRMA) and presented the papers on "Assessing Policy Interventions in Agribusiness & Allied Sector Credit versus Credit plus Approach for Livelihood Promotion in Maharashtra (India) (with Shroff)", and "Agricultural Growth and Agribusiness Potential in Gujarat: Recent Experiences (with Dr Swain and Shri T B Parihar) on Jan 6-7, 2016.
 - Participated at the National Seminar on "Indian Banking Growth and Challenges organized by Department of Commerce, Arts, Science and Commerce College, Kolhar, Rahata, Ahmednagar (Maharashtra) and presented a paper on "Trends in the Indian Banking Sector: Initiatives for Financial Inclusions"(Raji Ajwani Ramchandani and S.S. Kalamkar) on February 5, 2016.
 - Participated in two day National Seminar on 'Scheme for Change in Indian Economy: Need for Continuity and Consistency" organized jointly by N S Patel Arts College (Managed by Sardar Patel Education Trust), Anand and AERC, VVN during March 18-19, 2016 at N.S. Patel Arts College, Anand and presented a paper on " Status of Poverty Eradication in India".
 - Acted as an External Referee for Ph.D. Viva-Voce examination at North Maharashtra University, Jalgaon, Maharashtra on April 20, 2015.
 - Acted as an External Referee for Ph. D. Thesis received from the Solapur



University, Solapur and offered the comments in May 2015.

- Acted as a member of four members Project Evaluation Committee for MBA International Agri business students of IAMBI, Anand Agricultural University, Anand, Gujarat on May 25, 2015.
- Acted as an Expert Member on the Selection Committee for the post of Assistant Professors/Adhyapak Sahayaks in Economics of CVM, Vallabh Vidyanagar on June 13, 2015.
- Evaluated and offered the comments on Ph. D. (Economics) Thesis received from University of Pune, Pune in July 2015.
- Evaluated and offered the comments on two M. Sc. (Ag) Agricultural Economics Theses received from Dr. Punjabrao Deshmukh Krishi Vidyapeeth, Akola (MS) in July 2015.
- Attended Ph.D. pre-submission seminar of my understudy Ms. Raji Ajwani at Symbiosis International University, Pune (M.S.) on July 17, 2015.
- Acted as an External Examiner for Post Graduate Thesis Viva Voce examination of M.Sc. (Ag) Agricultural Economics student of International Agribusiness Management Institute, Anand Agricultural University, Anand, on October 19, 2015.
- Participated in the meeting with Director (Ag), Department of Agriculture, Government of Gujarat, Krishi Bhavan, Gandhinagar for IASRI Project on November 30, 2015.
- Acted as an External Expert and

evaluated Ph.D. thesis in Economics on the topic “National Agricultural Insurance Scheme as a Risk Management Strategy in Drought Prone Kalahandi District in Odisha” received from Ravenshaw University, Cuttack on November 25, 2015.

- Acted as an External Expert and evaluated Ph.D. thesis submitted by candidate for the degree of Ph.D. Commerce (Business Economics) of Savitribai Phule Pune University, Pune on December 2, 2015.

Dr. Mrutyunjay Swain

- Participated and presented a paper on “Agricultural Growth and Agribusiness Potential in Gujarat: Recent Experiences”, at the International Conference on Agribusiness in Emerging Economies (ICAEE), held during January 6-7, 2016 at the Institute of Rural Management Anand (IRMA), Gujarat, India.
- Participated and presented a paper on “Assessing Desirability of Free Trade Agreements (FTA) for Indian Dairy Sector”, at UGC Sponsored National Seminar on “Livestock Farming: Economic Issues, Policy and Challenges” held at Department of Economics, Sardar Patel University, Vallabh Vidyanagar, January 21 & 22, 2016.
- Participated and presented the papers on “Soil Health Card Scheme in Gujarat: Issues and Concerns, India”, & “Assessing Performance of MGNREGS in Rural Rajasthan, India”, at National Seminar on ‘Schemes for Change in Indian Economy: Needs for Continuity and Consistency’, jointly organized



- by N.S. Patel Arts College, Anand and AERC, VVN during 18-19 March, 2016.
- Participated and presented paper on “Role of National Horticulture Mission (NHM) in Horticultural Development in Rajasthan”, in 29th National Conference on Agricultural Marketing held during MPUAT, Udaipur October 28-30, 2015.
 - Presented the papers on “Impact of MNREGA on Employment of Disadvantaged Groups, Wage Rates and Migration in Rajasthan” (presented by S. Sharma) and “Adoption of Recommended Doses of Fertilisers on Soil Test Basis by farmers in Gujarat” (presented by S. S. Kalamkar) at 75th Annual Conference of Indian Society of Agricultural Economics held at Punjab Agricultural University Ludhiana during November 19-21, 2015.
 - Presented the outcomes of study report on “Adoption of Recommended Doses of Fertilizer on Soil Test Basis by Farmers in Gujarat”, as Faculty Seminar at the Centre on April 10, 2015.
 - Attended IRMA Impact Evaluation Summer School 2015, organized by Institute of Rural Management, Anand during May 18-23, 2015.
 - Participated in 1st Knowledge Conclave for Colleges and Universities held at India Habitat Centre, New Delhi, during January 28–29, 2016, organized by Centre for Science and Environment (CSE), New Delhi
 - Participated in Workshop on “Prospects and Procedures in Agri Export Business” jointly organized by

Jt. Directorate General of Foreign Trade, Vadodara, WTO Cell, Department of Agricultural Economics, B. A. College of Agriculture and International Agri Business Management Institute at BACA, Anand Agricultural University, Anand on 9th of October, 2015.

Dr. S. R. Bhaiya

- Delivered invited lecture on ‘Water Harvesting’ to the farmers and students of C P Patel and F H Shah Commerce College, Anand at NSS Camp, Kherda of Anand district on February 2, 2016
- Participated and presented key note paper on ‘Non-Farm Sector in Gujarat: Issues and Challenges’ at 46th Gujarat Economic Conference, Gujarat Economic Association, organized by Hemchandracharya University, Patan, Gujarat during February 19-21, 2016 .
- Participated and presented paper on “Livestock Prospects and Problems in Gujarat” at UGC Sponsored National Seminar on ‘Livestock farming: Economic Issues, policy and challenges’ organized by P G Department of Economics, S. P. University, Vallabh Vidyanagar, January 21-22, 2016.
- Participated and presented paper on “Rural Non-farm Woman Employment in Gujarat”, at UGC sponsored ‘National Seminar on Globalization and Rural Marketing’ organized by G H Patel Postgraduate Institute of Business Management, S P University, Vallabh Vidyanagar, on January 30, 2015.
- Participated and presented paper



on 'Scheme to Study the Cost of Cultivation of Principal Crops in India and Minimum Support Price' at National Seminar on Scheme for Change in Indian Economy: Need for Continuity and Consistency, jointly organized by N. S. Patel Arts College, Anand and AERC VVN, during March 18-19, 2016.

- Participated in 'State level Workshop of the Sub-Group on Agricultural Marketing of the Commission on the Inclusive and Sustainable Agricultural Development of Andhra Pradesh' held on May 1, 2015 organized by SPIESR, Ahmedabad.
- Participated in One day State level Workshop (UGC-CPE) on 'How to write a Research Paper' held on July 28, 2015 organized by GEA & N. S. Patel Arts College, Anand.
- Participated in 'National Workshop on Cost of Cultivation Scheme', sponsored by Ministry of Agriculture and Farmers Welfare, Govt. of India, New Delhi and organized by Orissa University of Agriculture and Technology, Bhubaneswar Odisha during October 14-16, 2015.

Dr. Hemant Sharma

- Presented a paper on "Current Status and Growth in Fish export from India" at 29th Annual Conference of Indian Society of Agricultural Marketing held at Department of Agricultural Economics & Management, MPUAT, Udaipur, Rajasthan during October 28-30, 2015.
- Presented a lead paper on "Export

Potential of Seed Spices from India" at National Seminar on Seed Spices-2016 (New dimensional approaches for enhancement of spices productivity and profitability under era of Climate Change) at ICAR-NRCSS, Ajmer during 2-3 February 2016.

- Participated in National Seminar on "Live-Stock Farming: Economic Issues, Policy and Challenges" held at Post graduate Department of Economics, Sardar Patel University, Vallabh Vidyanagar on January 21-22, 2016.
- Participated and worked as a rapportuer at National Seminar on 'Schemes for Change in Indian Economy: Needs for Continuity and Consistency', jointly organized by N.S. Patel Arts College, Anand and AERC, VVN during 18-19 March, 2016.
- Attended IRMA Impact Evaluation Summer School 2015, organized by Institute of Rural Management, Anand during May 18-23, 2015.
- Acted as a resource person and delivered one lecture on 'Preparation and release of price forecasting bulletins' at training course for Agriculture Officers of Maharashtra state on "Market Intelligence for Agriculture Production and Processing" from 24th to 28th August, 2015 organized by Directorate of Extension Education, MPUAT, Udaipur (Rajasthan).

Shri Manish Makwana

- Participated and presented paper on "Assessment of Pre and Post Harvest Losses of Soybean Crop in Rajasthan"



in 29th National Conference on Agricultural Marketing -2015 jointly organized by Indian Society of Agricultural Marketing and Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan during 28th - 30th of October, 2015.

- Participated and presented paper on “Economics of Production, Processing & Marketing of Fodder Cultivation in Gujarat” in International Conference on Agribusiness in Emerging Economies organized by Institute of Rural Management, Anand on January 6-7, 2016.
- Participated and presented paper on “Livestock Development in Gujarat: An Assessment” in UGC Sponsored National Seminar on Livestock Economy Policy: Issues and Challenges organized by Sardar Patel University, Vallabh Vidyanagar, Anand during 21-22 January, 2016.
- Participated in 46th Annual Conference of Gujarat Economic Association held at M. Phil Department of Economics, Hemchandracharya North Gujarat University, Patan, Gujarat during 19-21 February, 2016.
- Participated and presented paper on “Impact of MGNREGA On Employment of Weaker Sections, Wage Rates and Migration in Gujarat” at the National Seminar on ‘Schemes for Change in Indian Economy: Needs for Continuity and Consistency’, at National Seminar on ‘Schemes for Change in Indian Economy: Needs for Continuity and Consistency’, jointly organized by N.S. Patel Arts College, Anand and AERC, VVN during 18-19 March, 2016.

- Attended IRMA Impact Evaluation Summer School 2015, organized by Institute of Rural Management, Anand during May 18-23, 2015.

Ms. Kalpana Kapadia

- Participated and presented a paper on “Soil Health Card Scheme in Gujarat” at two day National Seminar on ‘Role of Public Policy in Development Process’ held on January 4th and 5th 2016 at Sardar Patel Institute of Economics and Social Research (SPIESR), Ahmedabad.
- Participated and presented a paper on “Status of Milk Production in Gujarat” in two day UGC sponsored National seminar on ‘Livestock Farming: Economic Issues, Policy and Challenges’ organized by P. G. Department of Economics, Sardar Patel University, Vallabh Vidyanagar on 21st and 22nd January, 2016.
- Participated and presented a paper on “Overview of Warehousing India with reference to Gujarat” in 48th Annual Conference of the Gujarat Economic Association (GEA), held at Hemchandarachary (North Gujarat University) during 27th and 28th February 2016.
- Participated and presented a papers on “Development of Policies and Programmes on Agricultural Insurance in India:
- Special Reference to Gujarat State”, “Effects of Soil Test on Adoption of Recommended Doses of Fertilizer in Gujarat” and “Rural Development: Role and Function of Government Scheme”



in National seminar on Schemes for Changes in Indian Economy: Needs for Continuity and Consistence organized by N. S. Patel Arts College, Anand and AERC, VVN during 18th and 19th March 2016.

Shri Thansingh Parihar

- Attended IRMA Impact Evaluation Summer School 2015, organized by Institute of Rural Management, Anand during May 18-23, 2015.
- Participated in 46th Annual Conference of Gujarat Economic Association held at Hemchandracharya North Gujarat University, Patan during 19-21 February, 2016.
- Participated and presented paper on “Status of Milk Production in Gujarat” in UGC sponsored National Seminar on “Live-Stock Farming: Economic Issues, Policy and Challenges held at Post Graduate Department of Economics, S P University, Vallabh Vidyanagar.
- Participated and presented paper on “Rural Development: Role and Function of Government Scheme” at the National Seminar on ‘Schemes for Change in Indian Economy: Needs for Continuity and Consistency’, jointly organized by N.S. Patel Arts College, Anand and AERC, VVN during 18-19 March, 2016.

Shri Deep K Patel

- Attended a talk organized by Indian Institute of Management, Ahmadabad on “New Generation Library Spaces:

The Raeco experience” by Mr. Trevor McCann Raeco, Australia on July 17, 2015.

- Participated in UGC National Seminar on “Live- Stock Farming: Economics Issues, Policy and Challenges” organized by PG Department of Economics, S. P. University, Vallabh Vidyanagar on January 21 -22, 2016.
- Attended the National Seminar on “Schemes for Change in Indian Economy : Need for Continuity and Consistency” jointly organized by N.S. Patel Arts College, Anand and AERC, VVN during March 18-19, 2016.

Shri N. G. Chauhan

- Attended the National Seminar on “Schemes for Change in Indian Economy : Need for Continuity and Consistency” jointly organized by N.S. Patel Arts College, Anand and AERC, VVN during March 18-19, 2016.

Ms. Rinku Rathod

- Participated in National Seminar on “Schemes for Change in Indian Economy: Need for Continuity and Consistency” jointly organized by N.S. Patel Arts College, Anand and AERC, VVN during March 18-19, 2016.

Shri V D Parmar

- Attended the UGC National Seminar on “Livestock Farming: Economics Issues, Policy and Challenges” at PG Department of Economics, S. P. University, Vallabh Vidyanagar on January 21 -22, 2016.



Shri Gopal S. Machhi

- Participated in UGC Sponsored National Seminar on ‘Livestock farming: Economic Issues, Policy and Challenges’ organized by P G Department of Economics, S P University, Vallabh Vidyanagar, January 21-22, 2016.
- Participated in 46th Annual Conference of Gujarat Economic Association, held at Hemchandracharya University, Patan during Feb. 19-21, 2016.
- Participated in the ‘National Workshop on Cost of Cultivation Scheme at Orissa University of Agriculture and Technology, Bhubaneswar Odisha during October 14-16, 2015.

Shri R. I. Patel

- Attended the National Workshop on ‘Comprehensive Scheme for Cost of Cultivation of Principal Crops in India’ at Odisha University of Agricultural & Technology, Bhubaneswar, Odisha from 14.10.2015 to 16.10.2015.

Shri Brijesh P. Pandya

- Participated in UGC sponsored National Seminar on “Livestock Farming: Economic Issues, Policy and Challenges” at P.G. Department of Economics, S.P. University, VVN on January 21st and 22nd, 2016.
- Participated in 46th Annual Conference of Gujarat Economic Association held at Hemchandracharya North Gujarat University Patan during February 19-21, 2016.

- Participated in National Seminar on “Schemes for Change in Indian Economy: Need for Continuity and Consistency ” jointly organized by N. S. Patel Arts College, Anand and AERC, VVN during March 18-19, 2016.

Shri Hemal U Padhiyar

- Participated and presented paper on “Dairy Development in Gujarat: Assessment” in UGC sponsored National Seminar on “Live-Stock Farming: Economic Issues, Policy and Challenges” at P.G. Department of Economics, SP University, VVN during January 21-22, 2016.
- Participated in 46th Annual Conference of Gujarat Economic Association held at Hemchandracharya North Gujarat University Patan, during 19-21 February, 2016.
- Participated and paper presented entitled “Impact of MGNREGA on Employment of Weaker Sections, Wage Rates and Migration in Gujarat” in National Seminar on “Schemes for Change in Indian Economy: Need for Continuity and Consistency ” held at N. S. Patel Arts College, Anand during March 18-19, 2016.

Shri Hitesh P. Makwana

- Participated in ‘National Workshop on Cost of Cultivation Scheme’, held at Odisha University of Agricultural & Technology, Bhubaneswar, Odisha on October 14 to 16, 2015.



Field data collection work of RBP Project in Dhanera Taluka of Deesa district



CIPT- SHC Project work



CCS Cluster Visits



Discussion with Shri Sanath Mehta (Shramik Vikas Sansthan, Vadodara) on 17.05.2016



Meeting with Shri Rajesh Gandhi, Managing Director, Vadilal Industries Ltd., Ahmadabad on 16.05.2016 (with Dr. Galab, Dr. Satyanarayana and Dr. V. Surender, CESS, Hyderabad)



Visit to CCS, Rajasthan (Department of Agricultural Economics and Management, MPUAT, Udaipur) on October 29, 2015 by Dr Kalamkar and Dr Swain

ACADEMIC EVENTS HELD AND VISITORS AT THE CENTRE

AERC Foundation Day Lecture 2015 :

AERC celebrated its 54th Foundation Day on July 1, 2015. AERC Foundation Lecture 2015 was delivered by Prof. R. S. Deshpande (National Fellow, ICSSR & Former Director, ISEC, Bangalore) on “Agricultural Economics: Don’t Write an Obituary”. On this occasion, Dr. Ashok Dalwai, IAS, Additional Secretary, Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India, New Delhi delivered the chief guest address on “Agrarian Crisis – Can Amul Offer Some Solutions?”.



On the occasion of AERC Foundation day celebration, dignitaries released 'Krishi Yojana Book' (in Gujarati language for Gujarat state and in Hindi language for Rajasthan state)



On the occasion of AERC Foundation day celebration, dignitaries released 'Agricultural Production and Market Outlook' monthly magazine of AERC (Gujarati and English language)



Dr. Ashok Dalwai and Dr. R. S. Deshpande delivering the lectures



Dr. Mahesh Pathak and Dr. Harish Padh addressing the gathering



Dr. S. S. Kalamkar welcoming and presenting the work done report and
Dr. S. R. Bhaiya proposing vote of thanks



Dr. M. Swain receiving Dr. V.S. Vyas Felicitation prize for the best report (2012-2014)



Shri M. S. Parmar receiving trophy as 'Best Fieldman Award 2015" in CCS



Audience - AERC FD 2015 Lecture

Visit of Madam Ms. Sangeeta Verma (ESA Madam, Ministry of Agriculture and Farmers Welfare, GOI) & Shri Chander Kant (Additional Statistical Adviser, CS Division, DES, OI) January 14-16, 2016 :

Madam Ms. Sangeeta Verma (Economic and Statistical Adviser, DES, MOA) and Shri Chander Kantji (Additional Statistical Adviser, CS Division, DES) visited our Centre on January 14-16, 2016.





Dr. Mahesh Pathak and Dr. S. S. Kalamkar welcoming Dr. Sangeeta Verma madam



Visit to AMUL dairy with Madam Sangeeta Verma, ESA, and Shri Chander Kantji, Addl. Eco. Adviser Ministry of Agriculture and Farmers Welfare, New Delhi on January 16, 2016



Visit to Polyhouse farm of Shri Kanitkar (Akalv, Anand) with Madam Ms. Sangeeta Verma and Shri Chander Kant, on 16.01.2016

Organized National Workshop on AERC Coordinated Projects:

Two day National Workshop on AERC Coordinated Research Projects, viz. “Working of Pressurized Irrigation Network Systems (PINS) in India and “Assessment of the Status of Dairying and Potential to Improve Socio Economic Status of the Milk producers and Convergence of all Central and State Schemes at district level in Selected States of India”, was organized at the Centre during March 10-11, 2016. During two days deliberations and discussion, the study design and the schedules of two coordinated studies allotted was finalized. Shri T. Nanda Kumar, IAS, Chairman, National Dairy Development Board (NDDB), Anand has delivered the special guest address on March 11, 2016. His valuable address had set the tone of the discussion and helped us in finalising the work plan in right direction.



Technical Session on PINS



Dr. Vishvanathan (GIDR, Ahmedabad) delivering paper at workshop



Shri Nanda Kumar, IAS, Chairman, NDDDB, Anand at AERC Publication Display on March 11, 2016



Shri T. Nanda Kumar addressing the Two Day National Workshop invitees and staff of the Centre

Workshop cum Training Programme for the Technical/Field Staff of CCS Gujarat (June 29-30 and July 01, 2015) :

The workshop cum Training Programme on “Data Collection, Imputing in Worksheet and in Record Types (RTs) and use of FARMAP 2.0 Software’ was organized at Centre for the Technical/Field Staff of CCS Gujarat during June 29-30, 2015 and July 01, 2015. Dr. Mahesh Pathak (Hon. Adviser, AERC) inaugurated the workshop and addressed the gathering on June 29, 2015.



Workshop cum Training Programme for Agriculture Assistant/Fieldmen in CCS on June 29, 2015

Organised 5th I G Patel Memorial Lecture & National Seminar jointly with N. S. Patel Arts College, Anand (March 18-19, 2016) :

Two day two days National Seminar on ‘Scheme for Change in Indian Economy: Need for Continuity and Consistency’ was organized jointly by N S Patel Arts College (Managed by Sardar Patel Education Trust), Anand and AERC, VVN during March 18-19, 2016 at N.S. Patel Arts College, Anand.

On the occasion of inauguration of said workshop, the 5th IG Patel Memorial Lecture was delivered by Prof. Pulin Nayak (Professor, Department of Economics, Delhi School of Economics, University of Delhi, Delhi) on “Revisiting India’s Growth”.



Dr. Juvan Vala, Dr. Mohan Patel, Dr. Pulin Nayak, Dr. Bhukubhai N. Patel, Dr. Mahesh Pathak and Dr. S.S. Kalamkar on dias during function



Prof. Pulin Nayak delivering the 5th I. G. Patel Memorial Lecture on 18th March 2016 at N S Patel Arts College, Anand



Shri Jay Narayan Vyas (Economist & Thinker), Dr. Mahesh Pathak (Hon. Adviser, AERC), Dr. Tushaar Shah (IWMI, Anand), Dr. Dalip Kumar (NCAER, New Delhi), Dr. Hemant Shah and Dr. Sanjiv Joshi (MSU, Vadodara) respectively addressing the gathering/delivering the lecture at national seminar

Visit of Students of B.A. College Agriculture, Anand Agricultural University, Anand :

The 106 Student of B. A. College of Agriculture, Anand Agricultural University, Anand visited Centre on August 19, 2015 under Rural Agricultural Work Experience Programme of Seventh Semester

The another batch of 43 students of BACA, AAU, Anand visited Centre sciences on September 8, 2015 under exposure regarding research activities related to agricultural economics and social sciences.



Dr. Swain, Dr. S .R. Bhaiya and Dr Hemant Sharma addressing the students of AAU

Invited Seminar Lectures :

- Dr. Bedmatta delivered the invited seminar/lecture on “Economic Valuation of Wetland Ecosystem Services: Case of Little Rann of Kachchh, Gujarat” at Centre on 03.10.2015



Dr. Bedmatta delivering the presentation

- Prof. Avinash P. Ganpatye, BE (Civil), ME (Water Resources Management) Faculty, Department of Civil Engineering, Ganpat University [Former Deputy Executive Engineer (Narmada & Water Resources Department, Govt. of Gujarat), Former Deputy General Manager (Sardar Sarovar Narmada Nigam Ltd., Govt. of Gujarat)] delivered a invited seminar lecture on “Implementation of Pressurized Irrigation Network Systems (PINS) in Gujarat” at Centre on March 05, 2016.



- Seminar on From Forms to Formhub: Approach and Advantage of Paperless Surveys was delivered by Nikunj Parekh, Project Coordinator, Centres for International Projects Trust (CIPT), Colombia Water Centre, India Office, New Delhi on April 27, 2015



H. M. Patel Memorial Lecture 2016 :

The 3rd H.M. Patel Memorial Lecture was jointly organized by the Agro-Economic Research Centre (AERC) and Post-Graduate Department of Economics on February 12, 2016. Shri Sudhir Mankad (Former Chief Secretary, Govt. of Gujarat) has delivered the lecture on 'Making of Gift City'. Honorable Vice-Chancellor of Sardar Patel University Dr. Harish Padh presided over the function. Dr. Dilip Chauhan (Professor and Head of Economics Department and Convener of Lecture series) welcomed the gathering. The floral tribute to H. M. Patel Saheb was paid by the dignitaries. Dr. Mahesh Pathak (Hon. Adviser, AERC) introduced the speaker and topic of the lecture. Dr. Padh gave his remarks after lecture. Dr. S. S. Kalamkar (Director, AERC) proposed the vote of thanks. Dr. Amrita Patel (Former Chairman NDDDB & present Chairman, Charutar Arogya Mandal) and other invited guests, staff of Department, AERC and CCS and students were present



Felicitations of Shri Sudhir Mankad by Dr. Harish Padh & Dr. Mahesh Pathak



Shri Sudhir Mankad delivering the H. M. Patel memorial lecture



Other visitors

- Dr. P. K. Sharma, Director, KVK Dethli (Kheda) visited our centre on May 11, 2015.
- Dr. Smita Sirohi, Principal Scientist, NDRI Karnal, Haryana visited on June 06, 2015.
- Prof. R. S. Deshpande, National Fellow, Indian Council of Social Science Research & Former Director, Institute for Social and Economic Change, Bangalore visited on July 01, 2015.
- Dr. Ashok Dalwai, Additional Secretary, Ministry of Agriculture and Farmers Welfare, New Delhi visited on July 01, 2015.
- Dr. Satyasiba Bedmata, Senior Fellow, Centre for Environment and Social Concerns, Ahmedabad visited on October 03, 2015.
- Prof. Samar K. Datta, Retired Professor, Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad visited on January 12, 2016.
- Dr. Amritaben Patel, Former Chairman of NDDDB and present Chairman of Charutar Arogya Mandal visited Centre on February 12, 2016.
- Shri Sudhir Mankad, Chairman, GIFT City & Former Principal Secretary, Government of Gujarat visited on February 12, 2016.
- Dr. Sangeeta Verma, ESA Madam and Shri Chander Kantji, Addl. Adviser, CS Division of Ministry of Agriculture and Farmers Welfare visited on 14 January, 2016.
- Shri T. Nanda Kumar, Chairman, Shri T. N. Dutta, General Manager and four officers of National Dairy Development Board, Anand, Gujarat, India visited on March 11, 2016.
- Prof. Avinash P. Ganpatye, Faculty Department of Civil Engineering, Ganpat University, Former Deputy General Manager, SSNNL & Deputy Executive Engineer of Narmada & Water Resources Department visited on March 11, 2016.
- Dr. P. K. Vishwanathan and Dr. Chandrasekhar Bahinipati, GIDR, Ahmedabad visited Centre on March 11, 2016.
- Dr. A. K. Das, Hon. Director, AERC, Jorhat (Assam) visited Centre on 10.03.2016.
- Dr. K. Chattopadhyay, AERC, Shantiniketan (West Bengal) visited Centre on 10.03.2016.
- Dr. B. K. Jha, Hon. Director, AERC, Bhagalpur (Bihar) visited Centre on 11.03.2016.
- Representatives of AERC, Vishakhapatanam (Telangana); AERC, Jabalpur (MP); AERC, Allahabad (UP) also visited Centre on March 10-11, 2016.



Teachers from colleges in Maharashtra visited Centre (Feb. 3, 2016)



Dr. S.S. Kalamkar with other dignitaries at CIPT knowledge sharing meeting held on 30.09.2015 at India Habitat Centre, New Delhi



With Madam Sangeeta Verma and Shri Chander Kant at SP Univeristy Guesthouse on 16.01.2016



“Krushimela” at Dabhoi on 8 February 2016 at Dabhoi (Vadodara): Visit of Field Supervisor (Shri Hemal Padhiyar) with Sarpanch, Fieldman (Shri J. J. Patel) and selected 10 sample farmer of village Vanadra (Dabhoi)



Field survey for fishery project- Probander/Verava/Mangrol October 5-13, 2015



Exhibition of AERC Publications at the venue of National Conference at N.S. Patel Arts College, Anand on January 18-19, 2016



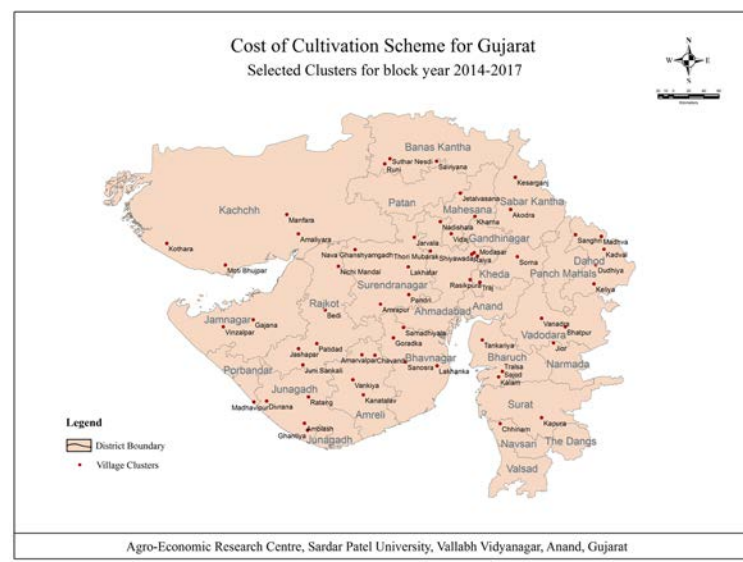
DETAILS OF FIELD VISITS FOR PROJECT WORK/CCS

Cost of Cultivation in Gujarat: Selected CCS Village Cluster (block 2014-2017)

as on March 31, 2016

Zone	Cls. No	District	Cluster	Village	Fieldman	Name of Field Supervisor
1	1	Tapi	Vyara	Kapura	Mistry A K	Shri A B Chaudhari
1	2	Navsari	Jalalpore	Chhinam	Machhi R S	Shri A B Chaudhari
2	3	Bharuch	Anklesvar	Sajod	B'bhatt Y D	Shri A B Chaudhari
2	4	Narmada	Nandod	Jior	Machhi S C	Shri. H U Padhilyar
3	5	Bharuch	Bharuch	Tralsa	Raj J S	Shri A B Chaudhari
3	6	Vadodara	Sankheda	Bhatpur	Patel N P	Shri. H U Padhilyar
3	7	Vadodara	Dabhoi	Vanadra	Patel J J	Shri. H U Padhilyar
3	8	Dohad	Devgadbaria	Keliya	Bariya C G	Shri B P Pandya
3	9	Dohad	Limkheda	Dudhiya	Parekh T P	Shri B P Pandya
3	10	Dohad	Jhalod	Kadval	Pandya H M	Shri B P Pandya
3	11	Dohad	Fatepura	Madhva	Vaghela A D	Shri B P Pandya
3	12	Panch Mahals	Kadana	Sanghri	Sharma S J	Shri B P Pandya
4	13	Anand	Tarapur	Amaliyara	Patel H B	Shri H P Makwana
4	14	Kheda	Kapadvanj	Sorna	Velari P D	Shri. V C Chudasama
4	15	Kheda	Matar	Traj	Prajapati R K	Shri H P Makwana
4	16	Kheda	Kheda	Rasikpura	Patel P C	Shri. H U Padhilyar
4	17	Ahmadabad	Sanand	Modasar	Patel S I	Shri A B Chaudhari
4	18	Ahmadabad	Detroj-Rampura	Nadishala	Patel P S	Shri. R I Patel
4	19	Gandhinagar	Mansa	Kharna	Karmata Sanjay H	Shri. V C Chudasama
4	20	Mahesana	Visnagar	Jetalvasana	Patel J K	Shri. R I Patel
4	21	Mahesana	Kadi	Vidaj	Patel Bharat K	Shri. R I Patel
4	22	Sabar Kantha	Vadali	Kesarganj	Prajapati A B	Shri. V C Chudasama
4	23	Sabar Kantha	Himatnagar	Akodra	Bhoi Vishnu B	Shri. V C Chudasama
4	24	Banas Kantha	Dhanera	Runi	Padhiyar S C	Shri. R I Patel
4	25	Banas Kantha	Deesa	Saviyana	Patel G A	Shri. R I Patel
5	26	Ahmadabad	Dholka	Shiyawada	Bhoi S C	Shri. H U Padhilyar
5	27	Bharuch	Vagra	Kalam	Vohra A I	Shri A B Chaudhari
5	28	Surendranagar	Limbdi	Pandri	Solanki A R	Shri H P Makwana
6	29	Junagadh	Sutrapada	Ghantiya	Chaudhariy V H	Shri. H U Padhilyar
6	30	Junagadh	Visavadar	Ratang	Parmar M S	Shri. H U Padhilyar
6	31	Junagadh	Mangrol	Divrana	Singhada M N	Shri. H U Padhilyar
6	32	Junagadh	Talala	Amblash	Sherathiya A J	Shri. H U Padhilyar
6	33	Junagadh	Manavadar	Sanosra	Patel J N	Shri. H U Padhilyar

6	34	Amreli	SavarKundla	Kanatalav	Patel Bhadres R	Shri B P Pandya
6	35	Amreli	Lathi	Chavand	Parmar S B	Shri B P Pandya
6	36	Amreli	Babra	Amarvalpar	Rathava Vijay C	Shri B P Pandya
6	37	Amreli	Kunkavav Vadia	Amrapur	Patel G B	Shri B P Pandya
6	38	Bhavnagar	Ghogha	Lakhanka	Panchal S A	Shri H P Makwana
6	39	Rajkot	Gondal	Patidad	Bhoi H D	Shri H P Makwana
6	40	Rajkot	Jetpur	Juni Sankali	Makwana P M	Shri H P Makwana
7	41	Rajkot	Jasdan	Madhavipur	Baldha K M	Shri B P Pandya
7	42	Rajkot	Morvi	Nichi Mandal	Chauhan Jasmat D	Shri H P Makwana
7	43	Rajkot	Tankara	Bedi	Vanvi D D	Shri H P Makwana
7	44	Jamnagar	Kalavad	Jashapar	Vaghela D S	Shri. V C Chudasama
7	45	Jamnagar	Jodiya	Lakhatar	Rabadiya A B	Shri. V C Chudasama
7	46	Jamnagar	Dhrol	Vankiya	Patel B M	Shri. V C Chudasama
7	47	Jamnagar	Lalpur	Gajana	Patel Bhaskar K	Shri. V C Chudasama
7	48	Jamnagar	Khambhalia	Vinzalpar	Parmar K G	Shri. V C Chudasama
7	49	Jamnagar	Kalyanpur	Tankariya	Patel D G	Shri. V C Chudasama
7	50	Bhavnagar	Gadhada	Goradka	Patel J V	Shri H P Makwana
7	51	Bhavnagar	Umralla	Samadhiyala	Mobha B B	Shri H P Makwana
8	52	Surendranagar	Dasada	Jarvala	Prajapati B I	Shri. R I Patel
8	53	Surendranagar	Halvad	Nava Ghanshy- amgadh	Parmar Mahesh R	Shri A B Chaudhari
8	54	Ahmadabad	Viramgam	Thori Mubarak	Chauhan J D	Shri. R I Patel
8	55	Patan	Sami	Kukrana	Chaudhari S R	Shri. R I Patel
8	56	Banas Kantha	Bhabhar	Suthar Nesdi	Bhoraniya K J	Shri. R I Patel
8	57	Banas Kantha	Deodar	Raiya	Dabhi L C	Shri. R I Patel
8	58	Kachchh	Abdasa	Kothara	Patel B R	Shri A B Chaudhari
8	59	Kachchh	Bhachau	Manfara	Trivedi M O	Shri A B Chaudhari
8	60	Kachchh	Mundra	Moti Bhujpar	Vidja L S	Shri A B Chaudhari





Dr. S. S. Kalamkar

- Visited selected sites/villages in the districts of Vadodara and Narmada for PINS Study on March 23, 2016.
- Conducted CCS Cluster Surprise Visits as follows:

Zone	Cls. No	Village	Date of Visit
1	1	Kapura	June 19, 2015
1	2	Chinam	June 20, 2015
3	8	Keliya	December 8, 2015
3	9	Dudhiya	December 8, 2015
3	10	Kadval	December 8, 2015
3	11	Madhava	December 8, 2015
3	12	Sanghari	December 8, 2015
4	13	Aamliyara	June 9, 2015
4	14	Sorna	June 2, 2015
4	19	Kharana	September 14, 2015
4	20	Jetlvasana	July 7, 2015
4	21	Vidaj	September 14, 2015
4	24	Runi	July 7, 2015
4	25	Saviyana	July 6, 2015
4	17	Modasar	September 29-30, 2015
5	26	Siyavada	September 29-30, 2015
8	55	Kukrana	September 14, 2015

Dr. Mrutyunjay Swain

- Visited Nadiad (Badarpur), Ahmedabad and Gandhinagar on March 30, 2016 for PINS Study and area estimation study.
- Visited selected sites/villages in the districts of Vadodara and Narmada for PINS Study on March 23, 2016.
- Visited Gandhinagar on 8th of March 2016 for PINS Study and Dairy Study.
- Visited 10 Clusters of CCS (Matar, Kheda, Dholka, Sanand and Viramgam, Dasada, Detroj-Rampura, Kadi, Mansa and Kapadvanj) on 8th & 9th December 2015
- Visited Porbandar on 15/09/2015 and 16/09/2015 for AERC Fishery Pilot Survey
- Visited selected villages in Anand district on 3rd, 4th and 8th of June 2015 for survey on 'Soil Health Card Programme in Gujarat: Implementation, Impacts and Impediments'

Dr. Hemant Sharma

- Conducted CCS Cluster visit to selected clusters (Runi, Saviyana, Suthar Nesdi, Raiya, Kukrana, Kesarganj, Akodra & Jetlvasana) on Dec 07-08, 2015.



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- Visited the selected three harbours (Porbandar, Veraval and Mangrol) for data collection on fishery for AERC project during October 5-13, 2015..
- Conducted field Survey in selected villages of two district ofs Gujarat for NDDDB Funded NDRI undertaken research project on “Impact Assessment and Evaluation Ration Balancing Program of Northern & Western Regions” during June 19-25, 2015 and July 6-12, 2015.

Dr. S. R. Bhaiya

- Group meeting on March 28, 2016 at Patan to verify the data sheets of 13 fieldsmen.
- Conducted CCS Cluster Surprise Visits as follows:

Zone	Cls No	Village	Visited on		
1	1	Kapura	June 19, 2015	Dec 22-23, 2015	
1	2	Chinam	June 20, 2015	Dec 22-23, 2015	
2	3	Sajod	Dec 22-23, 2015		
2	4	Jior	Nov 27, 2015;	Dec 22-23, 2015	
3	5	Tralsa	Nov 27, 2015	Dec 22-23, 2015	
3	6	Bhatpur	Dec 22-23, 2015		
3	7	Vanadra	July, 2015, Nov 27, 2015	Dec 22-23, 2015	January 15, 2016
4	13	Aamliyara	Dec 8-9,. 2015		
4	14	Sorna	June 2, 2015		
4	17	Modasar	April 28, 2015	Feb 10-11, 2016	
4	18	Nandisana	May 20, 2015		
4	19	Mansa	Sept 14, 2015		
4	20	Jetalvasana	July, 2015	Feb 10-11, 2016	
4	21	Vidaj	January 16, 2016	Feb 3, 2015	
4	24	Runi	July 7, 2015		
4	25	Saviyana	July 7, 2015	Feb 10-11, 2016	
5	26	Siyavada	May 20, 2015		
5	27	Kalam	Dec 22-23, 2015		
5	28	Pandri	Dec 8-9,. 2015		
6	34	Kanatalav	Dec 18-19, 2015		
6	35	Chavand	Dec 18-19, 2015		
6	36	Amrapara	Dec 18-19, 2015		
6	37	Amrapur	Dec 18-19, 2015		
6	38	Lakhanka	Dec 18-19, 2015		
6	39	Patidad	Dec 18-19, 2015		
6	40	Juni Sankadi	Dec 18-19, 2015		
7	41	Madhavipur	Dec 18-19, 2015		
7	42	Nichi Mandal	April 28, 2015;	Dec 8-9,. 2015	
7	43	Bedi	Jna 10, 2015		
7	45	Lakhatar	Dec 8-9,. 2015		
7	46	Vankiya	Dec 8-9,. 2015		
7	47	Kudi	Sept 14, 2015		
7	50	Gadhala	Dec 18-19, 2015		
7	51	Samdhiyada	Dec 18-19, 2015		
8	52	Jaravla	Dec 18-19, 2015	Feb 10-11, 2016	
8	53	Ghanshiyamghad(N)	April 28, 2015;	Dec 8-9,. 2015	
8	55	Kukrana	May 25, 2015, Sep 14, 2015	Feb 10-11, 2016	
8	56	Suthar Nesadi	May 25, 2015	Feb 10-11, 2016	
8	58	Kothara	Sept 14, 2015;	Dec 8-9,. 2015	
8	59	Kharoi	Dec 8-9,. 2015	Feb 10-11, 2016	
8	60	Bhujpar Moti	Dec 8-9,. 2015	Feb 10-11, 2016	



Shri G. S. Machhi

Zone	Cls.No	Village	Visit 1	Visit 2	Visit 3
1	1	Kapura	22-23/12/15		
1	2	Chinam	22-23/12/15		
2	3	Sajod	22-23/12/15		
2	4	Jior	27/11/15	18-19/12/15	22-23/12/15
3	5	Tralsa	27/11/15	22-23/12/15	
3	6	Bhatpur	22-23/12/15		
3	7	Vanadra	27/11/15	22-23/12/15	15/1/16
4	17	Modasar	28/4/15	10-11/2/16	
4	20	Jetalvasana	10-11/2/16		
4	21	Vidaj	16/1/16		
4	25	Saviyana	10-11/2/16		
5	27	Kalam	22-23/12/15		
6	29	Ghantiyaprachi	8-9/12/15	28-29/3/16	
6	31	Divrana	8-9/12/15	28-29/3/16	
6	32	Aamblash	8-9/12/15	28-29/3/16	
6	33	Sanosara	8-9/12/15	28-29/3/16	
6	34	Kanatalav	18-19/12/15		
6	35	Chavand	18-19/12/15	28-29/3/16	
6	36	Amrapara	18-19/12/15		
6	37	Amrapur	18-19/12/15	28-29/3/16	
6	38	Lakhanka	18-19/12/15		
6	39	Patidad	18-19/12/15		
6	40	Juni Sankadi	18-19/12/15	28-29/3/16	
7	41	Madhavipur	28-29/3/16		
7	42	Nichi Mandal	28/4/15	28-29/3/16	
7	43	Bedi	8-9/12/15		
7	44	Jasapar	8-9/12/15		
7	46	Vankiya	28-29/3/16		
7	47	Gajna	8-9/12/15		
7	48	Vinjalpar	8-9/12/15		
7	49	Tankariya	8-9/12/15	28-29/3/16	
7	50	Gordaka	18-19/12/15	28-29/3/16	
7	51	Samdhiyada	18-19/12/15	28-29/3/16	
8	52	Jaravla	10-11/2/16		
8	53	Ghanshiyamghad(N)	28/4/15		
8	55	Kukrana	10-11/2/16		
8	56	Suthar Nesadi	10-11/2/16		
8	59	Kharoi	10-11/2/16		
8	60	Bhujpar Moti	10-11/2/16		

Shri V. D. Parmar

- Visited sample villages (on 15.01.2016 and 16.01.2016) with Director and CCS team during the visit of Madam ESA, MOA & FW, GOI.
- Visited PINS Project sites of SSNNL (Navapura, Savli, Vadodara) and office of Gujarat Green Revolution Company, Vadodara with PINS team of Centre on March 23, 2016.



Shri R. I. Patel

Zone	Cls. No	Village	Visit 1	Visit 2	Visit 3
4	17	Modasar	7,8/5/15	17-19/12/15	
4	18	Nandisana	28-29/10/15		
4	20	Jetalvasana	21/4/15	26-27/9/15	
4	21	Vidaj	30,31/10/15		
4	24	Runi	20/4/15	30-1/10/15	
4	25	Saviyana	19/4/15	4,5/10/15	
8	52	Jaravla	3,4/11/15		
8	53	Ghanshiyamghad(N)	21/4/15	5,6/5/15	
8	54	Borimubarak	1/4/15	1,2/11/15	
8	55	Kukrana	26,27/9/15		
8	56	Suthar Nesadi	16,17/4/15	9/7/15	28,29/9/15
8	57	Raiya	18/4/15	26,27/9/15	
8	58	Kothara	1,2/5/15		
8	59	Kharoi	3,4/5/15	8/7/15	
8	60	Bhujpar Moti	29,30/4/15		

Shri B. P Pandya

Zone	Cls. No	Village	Visit 1	Visit 2	Visit 3	Visit 4
1	1	Kapura	18-20/12/15			
1	2	Chinam	21-23/12/15			
3	8	Keliya	24,25/4/15	30,1/10/15	8/12/15	3,4/2/16
3	9	Dudhiya	23,24/4/15	8-15/6/15	28,29/9/15	1,2/2/16
3	10	Kadval	17,18/4/15	8-15/6/15	8/12/15	
3	11	Kadhava	17,18/4/15	8-15/6/15	9-11/10/15;	5,6/2/16
3	12	Sanghari	22,23/4/15	12,13/10/15	8/12/15	
3	12	Sanghari	20/4/15	14-15/10/15	7,8/2/16	9,10/2/16
4	14	Sorna	7,8/4/15			
4	19	Kharana	6,7/4/15			
4	22	Kesarganj	3,4/4/15			
5	27	Kalam	15-17/12/15			
6	34	Kanatalav	16-18/10/15	9,10/3/16		
6	35	Chavand	19,20/10/15	1-3/3/16		
6	36	Amrapara	21,22/10/15	3,4/3/16		
6	37	Amrapur	23,24/10/15	7,8/3/16		
7	41	Madhavipur	25,26/10/15	5,6/3/16		

Shri H. U. Padhiyar

Zone	Cls.No	Village	Visit 1	Visit 2	Visit 3	Visit 4
2	3	Sajod	29,30,31/12/15			
2	4	Jior	17/4/15	26,27/10/15	26/1/16	21,22/3/16
3	5	Tralsa	21,22,23/12/15			
3	6	Bhatpur	16/4/15	28,29/10/15	18,19,20/12/15	27/1/16
3	7	Vanadra	15/4/15	30,31/10/15	15/1/16	28/1/16,
4	16	Rashikpura	3,4/11/15	30/1/16		8/2/16
5	26	Siyavada	1,2/11/15	29/1/16		
6	29	Ghantiyapra-chi	7/4/15	9,10/10/15	9/12/15	28,29/2/16
6	30	Ratang	5,6/10/15	9/12/15	3,4/3/16	
6	31	Divrana	8/4/15	7,8/10/15	9/12/15	1,2/3/16
6	32	Aamblash	6/4/15	11,12/10/15	9/12/15	26,27/2/16
6	33	Sanosara	9/4/15	3,4/10/15	9/12/15	5/3/16



Shri H. P. Makwana

Zone	Cls. No	Village	Visit 1	Visit 2	Visit 3	Visit 4
4	13	Aamliyara	18/4/15	4,5/10/15	18,19/1/16	
4	15	Traj	19/4/15	6,7/10/15	8/12/15	20-23/1/16
5	28	Pandri	4,5/11/15	16,17/2/16		
6	38	Lakhanka	15/4/15	28,29/9/15	25,26/1/16	
6	39	Patidad	29,30/10/15	22,23/2/16		
6	40	Juni Sankadi	27,28/10/15	24,25/2/16		
7	42	Nichi Mandal	2,3/11/15	18,19/2/16		
7	43	Bedi	31-1/11/15	20,21/2/16		
7	50	Gordaka	17/4/15	2,3/10/15	29,30/1/16	
7	51	Samdhiyada	16/4/15	30-1/10/15	27,28/1/16	
8	53	Ghanshiyamghad(N)	16-18/12/15			
8	59	Kharoi	19-21/12/15			

Shri V. C. Chudasama

Zone	Cls.No	Village	Visit 1	Visit 2	Visit 3	Visit 4
4	14	Sorna	1,2/11/15	21,22/1/16		
4	19	Kharana	30,31/10/15	23,24/1/16		
4	22	Kesarganj	26,27/10/15	16,17/3/16		
4	23	Aakodra	28,29/10/15	18,19/3/16		
7	44	Jasapar	10,11/10/15	10,11/2/16		
7	45	Lakhatar	6,7/10/15	7,8/2/16		
7	46	Vankiya	8,9/10/15	8,9/2/16		
7	47	Gajna	4,5/10/15	5,6/2/16		
7	48	Vinjalpar	2,3/10/15	4,5/2/16		
7	49	Tankariya	1/10/15	2,3/2/16		
8	58	Kothara	20-22/12/15			
8	60	Bhujpar Moti	16-19/12/15			

Shri A. B. Chaudhari

Zone	Cls.No	Village	Visits
4	17	Modasar	18,19/3/15
4	18	Nandisala	12,13/3/15
4	20	Jetalvasana	7-9/3/15
4	21	Vidaj	10,11/3/15
4	24	Runi	4,5/2/15
4	25	Saviyana	1-3/2/15
8	52	Jaravla	14,15/3/16
8	54	Thorimubarak	16,17/3/16
8	55	Kukrana	11,12/2/15
8	56	Suthar Nesadi	8-10/2/16
8	57	Raiya	6,7/2/16

Shri Deep Patel

- Visited Gujarat Vidyapeeth library for a copy of old advertisement and conducted one CCS cluster field visits with Director and Field officer.

Research Team Visit to field

Sr. No.	Project title	Field Team	Duration of Visit	Name of Villages/ Places of Visit
1	Soil Health Card Programme in Gujarat Implementation, Impacts and Impediments	Shri Manish Kant Ojha Ms. K. M. Kapadia Shri Thansingh Parihar Shri Manish Makwana Shri Hemal Padhiyar Shri Hitesh Makwana Shri R. I. Patel Shri B. P. Pandya	May and June 2015	Selected samples from the district of Tapi, Bharuch, Dahod, Anand, Mahesana, Bhavnagar, Junagadh, Rajkot Jamnagar, Kachchh, and Banaskantha
2	Impact Assessment and Evaluation of Ration Balancing Program in Northern & Western Regions in Gujarat	Dr. Hemant Sharma Ms. K. M. Kapadia Shri Thansingh Parihar Shri Manish Makwana Ms. Priyanka Patel Mr. Vanpal Boyal Mr. Sandip Panchal	June 19-25, 2015 & July 6-12, 2015	Selected villages Surat and Banaskantha district of Gujarat
3	Evaluation and assessment of economic losses on account of inadequate post harvest infrastructure facilities for fisheries sector in India: Gujarat State	Dr. Hemant Sharma Shri Manish Kant Ojha Shri Manish Makwana Ms. K. M. Kapadia Shri Thansingh Parihar Ms. Rinku rathod	October 5-13, 2015	Three selected harbours of Gujarat, viz. Porbandar, Veraval and Mangrol.



Surprise Cluster Visit to Cluster-Visnagar (Jesaltalwadi, Mahsana) December 8-9, 2015



ADMINISTRATIVE ASSIGNMENT HANDLED

Dr. S. S. Kalamkar

- Honorary Director, Cost of Cultivation Scheme- w.e.f. July 5, 2012- Administrative work.
- Public Information Officer, AERC, S.P. University, Vallabh Vidyanagar since July 19, 2012.
- Public Information Officer, CCS, S.P. University, Vallabh Vidyanagar since July 19, 2012.
- Member, Advisory Committee, H.M. Patel Memorial Lecture, Sardar Patel University, Vallabh Vidyanagar since November 12, 2013.

Dr. Mrutyunjay Swain

- Worked as Officer In-charge of Centre, as and when required, during the absence of the Director of the Centre.

Dr. S. R. Bhaiya

- Worked as Officer In-charge of Centre, as and when required, during the absence of the Director of the Centre.
- Worked as Assistant Public Information Officer (Assit. PIO) for CCS of the Centre since July 19, 2012.
- Worked as a Secretary' of 'Standing Administrative Affairs Committee of Cost of Cultivation Scheme', AERC, S P University, Vallabh Vidyanagar since March 2013.

- Continued to work as 'The Member' for the 'Committee for Selection of Best Field man in Cost of Cultivation Scheme (CSBF)', CCS, AERC, S P University, Vallabh Vidyanagar from March 2013 till today.

Shri G. S. Machhi

- Continued to work as 'The Member' for the 'Composition of Standing Administrative Affairs Committee of Cost of Cultivation Scheme', AERC, S P University, Vallabh Vidyanagar from March 2013 till today.
- Continued to work as 'The Member' for the 'Committee for Selection of Best Field man in Cost of Cultivation Scheme (CSBF)', CCS, AERC, S P University, Vallabh Vidyanagar from March 2013 till today.

Shri D. N. Thakkar

- Worked as a Assistant Public Information Officer (Assit. PIO) for the Centre since July 19, 2012.
- Worked as additional responsibility of Accounts of CCS, Gujarat

Shri V. D. Parmar

- Provided Assistance to the Honorary Director, Cost of Cultivation Scheme in Office work as well as pension case related to Cost Scheme.
- Worked as Lift work In-charge and completed all the process as per rule required for installation of lift at the Centre.
- Provided required assistance in installation of solar system at the Centre.



Dr. R. K. Sharma and Dr. B.S. Shekhawat (KVK, Kheda) addressing CCS staff during Training Programme on June 29, 2015



Dr. Jayen S. Mehta, Dr. S.S. Kalamkar, Prof. Samar Dutta, Shri Kishor Jhala and Dr. M. Swain at GCMF Office on February 10, 2016



OTHER DISTINCTIVE/IMPORTANT WORK DONE

Dr. S. S. Kalamkar

- Worked as Organizing Secretary for 'National Workshop on AERC Coordinated Projects', organized at Centre during March 10-11, 2016.
- Worked as a Reviewer for the journal 'Indian Journal of Economics and Development', July 2015.
- Reviewed the paper for Journal on Agricultural Research, November 29, 2015.
- Worked as a Reviewer for the journal 'International Journal of Rural Management', December 2015.
- Member, Board of Governors, India Natural Resource Economics and Management (INREM) Foundation, Anand, Gujarat (since August 2014).
- Discussant, Subgroup for Committee on Agricultural Marketing to Study the Developmental Initiatives in Andhra Pradesh, under the Chairmanship of Prof. R. Radhakrishna.
- Visited and met the officials of Gujarat Green Revolution Company, Vadodara on March 23, 2016 to discuss about PINS project. Also visited the site of one of the UGPL PINS systems of SSNL Limited.
- Participated in the meeting with Director, ICAR- Indian Agricultural Statistical Research Institute, New Delhi to discuss the work plan of research project on Pilot

Project on developing crop estimates of crop area and production on the basis of sample sizes recommended by Prof Vaidyanathan.

- Visited the offices of Directorate of Accounts and Treasury, Govt. of Gujarat; Commissionerate of Higher Education, Govt. of Gujarat Gandhinagar and Managing Director, Gujarat Water Resources Development Corporation, Gandhinagar, Gujarat on December 7, 2015.

Dr. Mrutunjay Swain

- Worked as Co-organizing Secretary for 'National Workshop on AERC Coordinated Projects', organized at Centre during March 10-11, 2016.
- Participated as invited Member in the Workshop of the Sub-Group on Agricultural Marketing of the Commission on the "Inclusive and Sustainable Agricultural Development of Andhra Pradesh" at SPIESR, Ahmedabad on 15th May 2015.
- Coordinated RAWE (Rural Agricultural Work Experience) Programme visit to our Centre on 19th August 2015 and 8th September 2015 wherein the students of Anand Agricultural University were given exposure regarding research activities conducted at our Centre.
- Reviewed the paper for the journals as given below:



- Reviewed one Paper for World Development, published by Elsevier in January 2016
- Reviewed one Paper for 'Environmental Monitoring and Assessment', published by Springer in September 2015
- Reviewed one Paper for 'Proceedings of the National Academy of Sciences, India Section B: Biological Sciences', published by Springer in May and June 2015
- Reviewed four Papers for 'Sustainable Agriculture Research', published by Canadian Center of Science and Education, Toronto during 2015-16
- Reviewed one Paper for 'Asian Journal of Development, published by MicroThink Institute, Las Vegas, USA in April 2015
- Reviewed one Paper for 'Journal of Agricultural Economics and Development', published by Academic Research Journals in September 2015
- Reviewed one Paper for 'Sky Journal of Agriculture Research', published by Sky Journals International, Kenya in July 2015.

Dr. S. R. Bhaiya

- Provided training to field staff on online data entry software farmap 2.0 at Patan during Feb 10-11, 2016.
- Attended the hearings in the matter of SCA No. 25157 of 2007 (Special leave to appeal No. 24111 of 2014 submitted by the Ministry of Agriculture – CS Division) at Honorable Supreme Court of India, New Delhi.

- Participated in the GEA Executive Meeting held at Patan on September 14, 2015.
- Acted as a Judge in 'Best Speaker of BJVM Competition' at BJVM Commerce College, Vallabh Vidyanagar on Feb 23, 2016.

Shri G. S. Machhi

- Submitted the data for year 2012-13 in the new online data entry software FARMAP 2.0 dated July 30, 2015 to Ministry of Agriculture, Govt. of India
- Provided Training for data entry in the new data entry software namely FARMAP 2.0 to all the field staff.
- Provided training to Field staff on online data entry software farmap 2.0 at Patan during Feb 10-11, 2016.

Shri B. P. Pandya

- Attend an expert committee meeting on MSP for Rabi season crop for the year 2015-16 at Office of Director of Agriculture, Gandhinagar on 20th May, 2015.

Shri Deep K. Patel

- Provided assistance and necessary support in designing and printing as well as its circulation work of various publications of AERC and CCS.

GUIDANCE TO THE PH. D./ M. PHIL STUDENTS

Dr. S.S. Kalamkar

Sr. No.	University/Institute-Recognized as a Ph.D. Guide at	Subject	No. of students			
			Registered	Awarded Ph.D.	Thesis Submitted	Work In Progress
1	Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat)	Economics	03	-	-	03
		Management	03	-	-	03
2	Gokhale Institute of Politics & Economics (Deemed University), Pune (MS)	Economics, Agricultural Economics	01	-	01	-
3	Symbiosis International University, Lavale, Pune (MS)	Economics/ Management	01	-	01	-

Dr. Mrutyunjay Swain

Sr. No.	University/Institute-Recognized as a Ph.D. Guide at	Subject	No. of students			
			Registered	Awarded Ph.D.	Thesis Submitted	Work In Progress
1	Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat)	Economics	04	-	-	04

Dr. S. R. Bhaiya

Sr. No.	University/Institute-Recognized as a Ph.D. Guide at	Subject	No. of students			
			Registered	Awarded Ph.D.	Thesis Submitted	Work In Progress
1	Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat)	Economics	02	-	-	02



Visit to Symbiosis International University, Pune
(Ms. Raji; Dr. S.S. Kalamkar and Prof. Odumbi on December 7, 2015)



Glimpses of Field survey for fishery project
 Porbander/Veraval/Mangrol- October 5-13, 2015



AWARDS WON, ELECTION/ NOMINATION TO PROFESSIONAL, EDUCATIONAL, NON-ACADEMIC BODIES, ETC.

Dr. S. S. Kalamkar

- Unanimous Election as a member of Executive Committee of Indian Society of Agricultural Economics for the period of two years (2015-2017) at General Body meeting held at PAU, Ludhiana on November 21, 2015.
- Worked as member of Editorial Board of "International Journal of Social Science", (ISSN 2249-6637), Visva-Bharati Shantiniketan, published from New Delhi Publishers, New Delhi
- Worked as member of Editorial Board of "Artha Vikas (ISSN 0004-3567) Journal of PG Department of Economics, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat.
- Worked as a State/Regional Representative of the Indian Society of Agriculture Marketing for the Maharashtra State.
- Worked as a Member of Executive Council of Gujarat Economic Association (GEA) February 13, 2015
- Worked as a Member, Board of Governors, India Natural Resource Economics and Management (INREM) Foundation, Anand 388001, Gujarat (since August 2014).
- Worked as a Member of sub-committee of 'Committee on Agricultural Marketing to Study the Developmental Initiatives in Andhra Pradesh, under the Chairmanship of Prof. R. Radhakrishna.

Dr. Mrutyunjay Swain

- Awarded V.S. Vyas Felicitation Prize for Best Research Report amongst the research papers prepared at AERC during two years periods (2012-13 to 2013-14) by Sardar Patel University, Vallabh Vidyanagar. The award was conferred during 2015-16.
- Member of the Editorial Board, Sustainable Agriculture Research, an international journal published by Canadian Center of Science and Education, Toronto.
- Member of the Editorial Board, Quarterly Journal of Econometrics Review, Pak Publishing Group, Punjab, Pakistan.
- Member of the Editorial Board, Journal of Asian Development, an international journal published by Macro-think Institute, Las Vegas, USA.
- Member of Editorial Advisory Board (EAB), Handbook of Research on Climate Change Impacts on Health and Environmental Sustainability, IGI Global, a USA (Pennsylvania) based book publisher.
- External Member of Internal Quality Assurance Cell (IQAC), R. N. Patel Ipcowala College of Law and Justice (An affiliated College of S.P. University), Vallabh Vidyanagar.



Fixed mosquito net to safeguard pomegranate crop in field-
on the way to Dhanera taluka of Deesa district of Gujarat (July 7, 2015)



Field visit with selected farmer by Shri Hitesh Makwana (Field Supervisor)
Village Pandari, Taluka Limbdi of Surendranagar district (Feb. 16, 2015)



Dr. S.S. Kalamkar and Dr. A. Narayanamoorthy
Visit to Alagappa University, Karaikudi, Tamil Nadu on January 3, 2016



PROFESSIONAL AFFILIATION

Dr. S. S. Kalamkar

- Indian Society of Agricultural Economics (ISAE), Mumbai (Life Member)
- Indian Society of Agricultural Marketing (ISAM), Nagpur (Life Member)
- The Indian Economic Association (IEA), New Delhi (Life Member)
- Agricultural Economic Research Association, New Delhi (Life Member)
- Maharashtra Society of Agricultural Economics, Pune (Life Member)
- Economic & Political Weekly Research Foundation, Mumbai (Annual Member),
- Association of Asian Scholars (AAS), New Delhi (Associate Membership)
- Indian Society of Agricultural Development & Policy, Ludhiana (Life Member)
- Indian Society for Studies in Cooperation- Life Member
- Gujarat Economic Association (Life Member)
- India Natural Resource Economics and Management Foundation (INREM), Anand (Life Member).

Dr. Mrutyunjay Swain

- Indian Society Agricultural Economics (Life Member)
- Indian Economic Association (Life Member)
- South Asian Network for Development and Environment Economics (Life Member)
- Indian Climate Research Network (Life Member)

Dr S. R. Bhaiya

- Gujarat Economic Association (Life Member)
- Vishleshan Trust (for five years)
- SPET Research Journal in Social Science (for five years)

Dr. Hemant Sharma

- Journal of Agricultural Development and Policy (Life Member)
- Rajasthan Journal of Extension Education (Life Member)
- Indian Journal of Agricultural Research
- International Journal of Agricultural Economics and Statistics
- Journal of Research, PAU
- Indian Journal of Dairy Science
- Indian Journal of Agricultural Marketing
- Indian Journal of Agricultural Economics
- Indian Journal of Agricultural Economics and Development
- Journal of Progressive Agriculture

Shri M. R. Ojha

- Indian Journal of Agricultural Economics
- Rajasthan Economic Association

Shri T. B. Parihar

- Indian Journal of Agricultural Marketing
- Indian Journal of Agricultural Economics

Shri Deep Patel

- Gujarat Granthalaya Seva Sangh, Ahmedabad (Life Member)
- Alimni Association of Department of Library and Information Science, SPU, VVN (Patron Member)
- Ahmedabad Library Network (AADINET), Ahmadabad (Life Member)
- Indian Library Association (ILA), Delhi (Life Member).



CCS Gujarat team at National Workshop on CCS at OUAT, Bhubaneshwar on October 14, 2015



Dr. S. R. Bhaiya delivering key note paper at GEA Annual Conference

MEETING OF GOVERNING BODY

Last meeting of the Governing Body of the Centre was held on February 10, 2015 in the Seminar hall of Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar. During this financial year not conducted Governing Body meeting.

A meeting of the Governing Body of the Centre was held on February 10, 2015 in the Seminar hall of Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar.

Hon. Members of GB who were present in meeting:

- Dr. Harish Padh, Vice Chancellor, Sardar Patel University, Vallabh Vidyanagar.
- Dr. V. S. Vyas, 396, Vasundhara Extension, Tonk Road, Jaipur.
- Dr. Y. K. Alagh, Surdhara, B/H Goyel Intercity, Thaltej Road, Ahmedabad.
- Dr. Amrita Patel, Charutar Arogya Mandal, Gokal Nagar, Karamsad - 388 325
- Dr. Tushaar Shah, IWMI, C/o INREM Foundation, Behind IRMA, Anand.
- Dr. Sudarshan Iyengar, Thaltej, Ahmedabad.
- Prof. S. S. Acharya, 33, Shahi Complex, Sector - 11, Udaipur - 313 002
- Dr. Mahesh Pathak, Honorary Advisor, AERC, SPU, VVN, Anand.
- Dr. D. J. Chauhan, Head, PG Department of Economics, SPU, VVN, Anand.
- Dr. S.S. Kalamkar, Director, AERC, SPU, VVN, Anand.



Shri B. P. Pandya and Shri T. Parihar anchoring



AERC Team (Shri Parihar and Dr, Sharma) during field survey for fishery project



Discussing with Sample/Selected Farmers during field visits



RESEARCH SUPPORT SERVICES

Recognizing the importance of library and computer support for academic activities of the faculty and staff, we upgraded both these support systems.

A) Library:

The Centre has a separate library of its own. Many journals, magazines and research reports of different Agro-Economic Research Center's as well as known institutes like IIM (Ahmedabad), IRMA (Anand); IEG, New Delhi; GIDR, Ahmedabad, GIPE, Pune; State Government Publications, etc. are regularly arriving in our library. Apart from AERC and CCS research staff, this also helps the PG students of Department of Economics and other researchers to carry out their research smoothly and effectively particularly in the field of agriculture and rural development.

Journals Subscribed/Gift:

During the academic year 2015-16, the library subscribed to 17 periodicals which include 5 Indian journals and 5 magazines / weekly.

- Agricultural Economics Research Review
- Agriculture Today
- Artha Vikas
- Bhumi Putra
- Down to Earth
- Economic & Political Weekly

- India Journal of Labour Economics
- Indian Journal of Agricultural Economics
- Indian Journal of Agricultural Marketing
- Indian Journal of Fertiliser
- Indian Today
- Journal of Rural Development
- Kurukshetra(English)
- Millennial Asia
- The Economist
- Yojana (Gujarati)
- Yojana (English)

Gift:

- Agricultural Situation in India
- Krushi Govidya
- Online dataset subscribed
- www.indiastat.com (belongs to Datanet India Pvt. Ltd.)
- <http://www.epwrf.res.in/>- Economic and Political Weekly Research Foundation (EPWRF) Data Series on Agricultural Statistics, Price Indices and Domestic Product of States of India.

Book Purchased:

The library added 57 books to its collection during April 2015 to March 2016.

AERC	: 56
CCS	: 01

B) Seminar Hall :

- The Seminar hall housed in the Centre is well-equipped with all facilities created with the financial support of Ministry of Agriculture, Govt. of India.

C) Computer Centre:

The Computer Centre housed in the Cost of Cultivation Scheme, AERC is well-equipped with hardware and software to support the research and training programmes of the Centre. In the computer laboratory, staffs have access to the internet both for reference work and communication.



Book Exhibition February 24-25, 2016



COMMITTEES

Technical Advisory Committee-Research (TAC-R)

(Objective: To receive useful feedback on research work completed and to be undertaken at the Centre).

Composition
1) Hon. Adviser, AERC - Dr. Mahesh Pathak
2) One Subject Expert - Dr. Tushaar Shah, IWMI
3) The Director of Agriculture, Gujarat State, Krishi Bhavan Sector 10/A, Gandhinagar 382010 or his/her nominee
4) The Commissionerate of Agriculture, Rajasthan State, Department of Agriculture, Pant Krishi Bhawan, Jaipur or his/her nominee
5) The Director, Directorate of Economics and Statistics, Government of Gujarat, Gandhinagar, Gujarat or his/her nominee
6) Head, Department of Agricultural Economics, BA College of Agriculture, AAU
7) Representative of National Dairy Development Board (NDDB), Anand
8) Representative of National Bank for Agriculture and Rural Development (NABARD), Ahmedabad
9) Head, PG Department of Economics, SPU, Vallabh Vidyanagar
10) Director, AERC, Vallabh Vidyanagar

Standing Administrative Affairs Committee of CCS

Objective: To create a healthy environment and work culture in Cost of Cultivation Scheme by addressing the administrative issues.

Composition	Name of the Member	Period of Membership
1) Hon. Director	Dr. S.S. Kalamkar	--
2) Field Officer	Dr. S.R. Bhaiya	--
3) Assit. Statistician	Shri Gopal Machhi	--
4) One member nominated by Hon. Vice Chancellor, SPU	Dr. H.P. Trivedi, Prof., Dept. of Economics, SPU	21.06.2015 to 20.06.2017
5) One member from Agril. Supervisor/Field Supervisor (rotation according to seniority)	Shri B. P. Pandya	21.06.2015 to 20.06.2017
6) Two members from Fieldsmen, on the basis of their better work performance, in consultation with Field Supervisor and Field Officer, CCS.	Shri M. N. Singhada Shri. A. B. Rabadiya	21.06.2015 to 20.06.2017

Public Information Officers

AERC and CCS, Sardar Patel University, Vallabh Vidyanagar

Agro-Economic Research Centre	
Appellate Public Information Officer (APIO)	Hon. Vice Chancellor and Chairman, Governing Body, AERC Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat
Public Information Officer (PIO)	Director Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat
Assistant Public Information Officer (Assit. PIO)	Office Superintendent Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat

Cost of Cultivation Scheme	
Appellate Public Information Officer (APIO)	Hon. Vice Chancellor and Chairman, Governing Body, AERC Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat
Public Information Officer (PIO)	Honorary Director, Cost of Cultivation Scheme, Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat
Assistant Public Information Officer (Assit. PIO)	Field Officer, Cost of Cultivation Scheme, Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat



Health Check up of Office Staff at Health Centre of our Univercistry



APPOINTMENTS, RETIREMENT, RESIGNATION, ETC

AERC Staff	Post	Date
<i>Joined</i>		
Ms. Priyanka J. Patel	Research Assistant (Ad-hoc)	16.09.2015
<i>Resigned</i>		
-	-	-
<i>Retired</i>		
-	-	-

CCS Staff	Post	Date
<i>Joined</i>		
Shri Vishal C. Chudasama	Field Supervisor	12.05.2015
Shri Ravikumar S. Machhi	Field Man	12.05.2015
Shri Lalsigh C.	Field Man	12.05.2015
Shri Dangi Satyajitsingh G	Field Man	13.05.2015
Shri Sharma Sandipbhai J	Field Man	13.05.2015
Shri Velari Piyushbhai D.	Field Man	14.05.2015
Shri Parmar Kamlesh G.	Filed Man	15.05.2015
Shri Rathva Rohankumar A	Field Man	18.05.2015
Shri Parmar Maheshbhai R	Field Man	24.06.2015
Shri Rathva Vijaysin0h C.	Field Man	24.06.2015
Shri Bhoi Vishnu B.	Field Man	24.06.2015
Shri Prjapati Rameshbhai K.	Field Man	29.06.2015
Shri Karmata Sanjay H.	Field Man	03.07.2015
Shri Atishesh B. Chaudhari	Field Supervisor	21.12.2015
<i>Resigned</i>		
Shri Rathva Rohankumar A	Field Man	02.06.2015
Shri Satyajitsinh G. Dangi	Field Man	09.06.2015
<i>Retired</i>		
Shri B. B. Chavda	Agriculture Assistant	14.06.2015
Shri P. T. Dave	Agriculture Assistant	14.06.2015
Shri B. A. Pathak	Jr. Clerk / Typist	31.10.2015
<i>Expired</i>		
Shri A. M. Patel	Jr. Clerk/ Typist	04.01.2016 (B.O.H)



Farewell function- Shri B.B. Chavda and Shri A.T. Dave (Fiedman) on June 14, 2015



Farewell function- Shri B. A. Pathak on October 31, 2015



Book Exhibition February 2015



INFRASTRUCTURE

The Centre is located at the H.M. Patel Institute of Rural Development, Opp. Nanadalaya Temple, Sardar Patel University, Vallabh Vidyanagar 388120. In the same building, Department of Economics is housed on ground and first floor while AERC and CCS are working from second floor of the same building. (Purchase of items in Financial Year i.e. April 2015 to March 2016)

AERC:

During the year 2015-16, the following equipments/hardware/software/office materials were purchased from the grant-in-aid received: 1 Beetal Cell Phone, 2 Original Wall Fan, 4 Glass Door Cupboards, 1 Hydraulic Lift (50% expense), 1 Solar Power System (50% expense), 2 H.P. Note Book (Laptop), 1 laptop, 2 H. P. Desktop Computer.

CCS:

During the year 2015-16, the following equipments/hardware/software/office materials were purchased from the grant-in-aid received: 1 KLV 482 LED TV, 3 C1 Cello phone Beetel, 1 Orient Wall Fan, 1 USB Amply Fire Speaker, 6 Glass Door Cupboards, 1 Solar Power System (50% expense), 1 Hydraulic Lift (50% expense), 1 Mobile Jammer, 1 Panasonic Battery Camera Stand 32GB Data Card & Battery Charger, 2 H. P. LaserJet Printer, 8 Visitor Chair, 1 Hard Dist 1 TB, 1 Head Phone, 8 Dongle Card, 60 H. P. Notebook Laptop, 2 H. P. Desktop.

Installation of Solar Power System (3KVH)

The Centre has installed Solar Power System (3kWH) on the roof of the building of H. M. Patel Institute of Rural Development of University, This system was inaugurated on February 12, 2016 at the hands of Honorable Vice-Chancellor of Sardar Patel University, Dr. Harish Padh and Shri Sudhir Mankad (Former Chief Secretary, Govt. of Gujarat) and in gracious presence of Dr. Amrita Patel (Foremer Chairman NDDB & present Chairman, Charutar Arogya Mandal). Centre acknowledges with thanks the support of the Ministry, Special thanks to the Department of Physics of our University for their advice and help of in installation of same.

This “on Grid (Grid-Tied) Roof Top Solar Power Plant with single Axis Tracking and Reverse Power Protection System” is unique and indigenously designed for AERC, SPU. As per our knowledge this kind small scale roof top solar plant will generate the electricity throughout the whole day with east to west sun tracking system which maintains the direction of the solar panels exactly in front of the sun to harness maximum solar radiation. Because of this tracking system, the total amount of the electrical energy produced will be about 18% - 24% more compared with the fixed axis solar power plant. Thus against the 10% of the toal increase, the system will generate about 24% more power and ultimately reduce the power generation cost. The additional amount consumed for tracker system can be recovered within few years.



Dr. Harish Padh, Hon. Vice Chancellor, S. P. University and Chairman, AERC inaugurating Solar Power System in the building of H. M. Patel Institute of Rural Development



Lightening the lamp with the hands of Dr. Harish Padh, Shri Sudhir Mankad, Dr. Amrita Patel and Dr. Mahesh Pathak inaugurating the Solar Power System at AERC Centre



Shri Sudhir Mankad and Dr. Harish Padh inaugurating the use of Solar Power System at AERC Centre

STAFF MEMBERS AS ON MARCH 31, 2016

• AERC Staff

Sr. No.	Name	Designation
1	Dr. S. S. Kalamkar	Director and Professor
2	Vacant	Associate Professor
3	Dr. M. Swain	Research Officer/ Assistant Professor (Sr.)
4	Dr. Hemant Sharma	Research Officer/ Assistant Professor
5	Shri M .R. Ojha	Research Associate
6	Shri M. C. Makwana	Research Associate
7	Ms. K. M. Kapadia	Research Associate
8	Shri T. B. Parihar	Research Associate
9	Shri Deep K. Patel	Res. and Ref. Assistant (Lib.)
10	Shri D. N. Thakkar	Office Superintendent
11	Shri V. D. Parmar	P.A. to Director
12	Shri P. J .Patel	Account Assistant
13	Shri N .J. Amin	Jr. Clerk / Typist
14	Shri N. G. Chauhan	Research Fellow*
15	Ms Rinku Rathod	Research Fellow*
16	Ms. Priyanka Patel	Research Assistant*



With MBA student at Institute of Agri-business Management, Swami Keshwanand Rajasthan Agricultural University, Bikaner, Rajasthan



With Prof. S.S. Johl at PAU Ludhaina (Punjab) on December 2015



• **CCS Staff :**

Office Staff :

Sr. No.	Name	Designation
*	Dr. S.S. Kalamkar	Hon. Director
1	Dr. S. R. Bhaiya	Field Officer
2	Shri G. S. Machhi	Assistant Statistician
3	Shri R. I. Patel	Agriculture Supervisor
4	Shri B. P. Pandya	Field Supervisor
5	Shri H. U. Padhiyar	Field Supervisor
6	Shri H. P. Makwana	Field Supervisor
7	Shri V. C. Chudasama	Field Supervisor
8	Shri A.B. Chaudhary	Field Supervisor
9	Shri B. M. Solanki	Ad-hoc Jr.Clerk/Typist *
10	Shri J. N. Singh	Ad hoc Computer*
11	Shri F. G. Vahora	Ad hoc Computer*
12	Shri R. C. Mistry	Ad hoc Computer*
13	Shri M. S. Patel	Ad hoc Computer*
14	Ms. B. N. Patel	Ad hoc Computer*
15	Shri Mihir Rana	Ad hoc Computer*
16	Shri V.C. Harijan	Peon*

Field Staff:

Sr. No.	Name	Designation
17	Shri B. I. Prajapati	Agriculture Assistant
18	Shri J. S. Raj	Agriculture Assistant
19	Shri C G Baria	Agriculture Assistant
20	Shri P C Patel	Agriculture Assistant
21	Shri. M. O. Trivedi	Agriculture Assistant
22	Shri. G A Patel	Agriculture Assistant
23	Shri D. G. Patel	Agriculture Assistant
24	Shri G. B. Patel	Agriculture Assistant
25	Shri A. J. Sheratia	Agriculture Assistant
26	Shri Bhaskar K. Patel	Agriculture Assistant
27	Shri H. M. Pandya	Agriculture Assistant
28	Shri Bharat K. Patel	Agriculture Assistant
29	Shri J. V. Patel	Agriculture Assistant
30	Shri L. S. Vidja	Agriculture Assistant
31	Shri Jasmat D Chauhan	Agriculture Assistant



32	Shri A. D. Vaghela	Agriculture Assistant
33	Shri A. I. Vora	Agriculture Assistant
34	Shri Juvan D. Chauhan	Agriculture Assistant
35	Shri Y. D. Bhrambhatt	Agriculture Assistant
36	Shri M. N. Singala	Agriculture Assistant
37	Shri K. J. Bhoraniya	Agriculture Assistant
38	Shri S. I. Patel	Agriculture Assistant
39	Shri S. R. Chaudhary	Agriculture Assistant
40	Shri J. K. Patel	Agriculture Assistant
41	Shri S. B. Parmar	Agriculture Assistant
42	Shri S C Padhiyar	Agriculture Assistant
43	Shri J. N. Patel	Agriculture Assistant
44	Shri S. A. Panchal	Agriculture Assistant
45	Shri A. K. Mistry	Agriculture Assistant
46	Shri D. D. Vanvi	Field Man
47	Shri M. S. Parmar	Field Man
48	Shri P. S. Patel	Field Man
49	Shri S. C. Bhoi	Field Man
50	Shri P. M. Makwana	Field Man
51	Shri H. B. Patel	Field Man
52	Shri K. M. Baldha	Field Man
53	Shri D. S. Vaghela	Field Man
54	Shri A. P. Rabaria	Field Man
55	Shri S. C. Machhi	Field Man
56	Shri V. H. Chaudhary	Field Man
57	Shri R. B. Patel	Field Man
58	Shri A. B. Prajapati	Field Man
59	Shri Bhunik M Patel	Field Man
60	Shri H. D. Bhoi	Field Man
61	Shri B. B. Mobh	Field Man
62	Shri T. P. Parekh	Field Man
63	Shri A. R. Solanki	Field Man
64	Shri N. P. Patel	Field Man
65	Shri B. R. Patel	Field Man
66	Shri J. J. Patel	Field Man
67	Shri Ravikumar S. Machhi	Field Man
68	Shri C. Lalsigh	Field Man
69	Shri Styajitsingh G Dangi	Field Man
70	Shri Sandipbhai J. Sharma	Field Man
71	Shri Piyushbhai D. Velari	Field Man
72	Shri Kamlesh G. Parmar	Field Man
73	Shri Maheshbhai R Parmar	Field Man
74	Shri Vijaysingh C Rathva	Field Man
75	Shri Vishnu B. Bhoi	Field Man
76	Shri Rameshbhai K. Prajapati	Field Man
77	Shri Sanjay H. Karmata	Field Man

AUDITED STATEMENT OF ACCOUNTS

The grant-in-aid received from the Directorate of Economics and Statistics, Ministry of Agriculture, Govt. of India and other agencies and Expenditure Incurred during 2015-16 is presented below. The audited utilization certificate is submitted to the granter in the first week of April, 2016.

AERC		Amount in Rs.
i)	Unspent Balance as on April 1, 2015	12,89,091.18
ii)	Grant-in-aid received during 2015-16	1,28,40,000.00
Total		1,41,29,091.18
Total Expenditure during 2015-16		1,18,21,682.00
Unspent Balance as on March 31, 2016		23,07,409.18
CCS		Amount in Rs.
i)	Unspent Balance as on April 1, 2015	82,24,602.37
ii)	Grant-in-aid received during 2015-16	4,71,58,000.00
Total		5,53,82,602.37
Total Expenditure during 2015-16		4,48,07,135.00
Unspent Balance as on March 31, 2016		1,05,75,467.37



Field Work- CIPT sponsored project on Soil Health Card



Group Photo during Workshop cum Training Programme for Agriculture Assistant/Fieldsmen in CCS on Data Collection and Data Inputting in New Record Types (RTs) & FARMMAP Computer Software” on June 29, 2015



Group photo with Dr. Sangeeta Verma, ESA Madam and Shri Chander Kantji, Addl. Eco. Adviser, CS Division, MoA on January 15, 2016



Group Photo with Dr. T. Nanda Kumar, Chairman, NDDDB during Two Day National Workshop on AERC Coordinated Research Projects on March 12, 2016



Agro-Economic Research Centre

For the states of Gujarat and Rajasthan

(Ministry of Agriculture & Farmers Welfare, Govt. of India)

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