

# ANNUAL REPORT

## 2014-15



**Agro-Economic Research Centre**  
**Sardar Patel University**

Vallabh Vidyanagar 388120, Anand, Gujarat





# ANNUAL REPORT

2014-15



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)

**H.M. Patel Institute of Rural Development,**

Opp. Nandalaya Temple, Post Box No. 24

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Annual Report 2014-2015

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The Director  
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'Swachh Bharat Abhiyan' on October 2, 2014 with Prof. Ved Prakash (Chairman UGC, New Delhi); Dr. Harish Padh (Vice Chancellor, SPU); Dr. Mohan Patel (I/C Registrar, SPU, VVN) & others



## CHAIRMAN'S STATEMENT

It gives me immense pleasure to take note of the achievements of the Agro-Economic Research Centre (AERC) for the year 2014-15. I am pleased to note that the Centre has continued the tempo of academic activities for the 54<sup>th</sup> year in succession. The Annual Report 2014-15 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 28th National Conference on Agricultural Marketing, 45th Annual Conference of Gujarat Economic Association, National Workshop on Cost of Cultivation Scheme, AERC Foundation day Lecture by Dr. Tushaar Shah), Invited Seminar/lecture talk by Dr. V. S. Vyas, initiation of IWMI AERC Seminar series, H.M. Patel memorial Lecture by Dr. V. S. Vyas, timely completion of work and extension of academic activities in the Centre. The Centre has completed nine research projects, of which six projects were completed for Ministry of Agriculture, GOI and one project each undertaken for the Directorate of Economics and Statistics, Govt. of Gujarat; Irrigation Department, Govt. of Gujarat and SPRERI, Vallabh Vidyanagar (part of DST project).

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 main challenges faced by the Centre was uncertainty created by the abrupt decision of Ministry on funding to AER Centre and future of Agro Centre network which has a serious demoralising effect on the work culture. This issue deserves a more careful consideration with the help of distinguished senior experts. 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





Dr. S.S. Kalamkar welcoming Dr. R.S. Deshpande on his visit to the Centre on 28.02.2015



Prof. R. S. Deshpande addressing the staff of the Centre





## FROM THE DIRECTOR'S DESK

I am happy to present before you annual report of the Centre for the period from April 2014 to March 2015. 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 reports of six research projects to the Ministry and three project reports to other public agencies. Besides, the Centre has organized the 28th National Conference on Agricultural Marketing (December 4-6, 2014), 45th Annual Conference of Gujarat Economic Association (February 13-15, 2015), National Workshop on Cost of Cultivation Scheme (August 24-25, 2014). Besides, IWMI AERC seminar series was initiated at the Centre. While our activities expanded and studies deepened further, the abrupt decision of Ministry on future of AERC network not only has serious demoralizing effect on the work culture of Centre but also limit our ability to undertake the strengthening of academic support system and to initiate new academic activities.

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, Government of India, New Delhi; Agriculture Department, Government of Gujarat, Gandhinagar; Agriculture Department, 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



Dr. M. Govinda Rao (Former Member, Economic Advisory Council to the Prime Minister; and Emeritus Professor, National Institute of Public Finance and Policy, New Delhi) visited the Centre on February 14, 2015



Policy consultation workshop organized jointly by Indian Institute of Management (IIM), Ahmedabad and International Food Policy Research Institute (IFPRI) on “Support-Led and Economic Growth-Mediated Food and Nutrition Security In India: The Case of Gujarat” on Saturday, November 1, 2014





## HIGHLIGHTS OF THE YEAR

- The faculty and the research staff members of the Centre completed nine research projects and two research projects are under progress.
- Dr. Tushaar Shah, Senior Fellow, International Water Management Institute (IWMI), Colombo (Anand office Gujarat) delivered AERC Foundation Day Lecture 2014 on “Secret of Creating High Performing Knowledge Institutions (HPKI)” on July 1, 2014.
- Dr. V. S. Vyas, Professor Emeritus, Institute of Development Studies, Jaipur and Former Member, Economic Advisory Council to the Prime Minister delivered the second H.M. Patel Memorial Lecture on “Transforming Higher Education in India from Blind Alley to Knowledge Highway” on February 11, 2015.
- Dr. V. S. Vyas Felicitation Prize for the best research report conducted in the Centre during two years period 2010-12 was awarded to AERC Report No. 144 on “Economics of Production, Processing and Marketing of Fodder Crops in Gujarat”, prepared by Shri V. D. Shah, Shri Manish Makwana and Shri Shreekant Sharma.
- Instituted IWMI-AERC Seminar series at the Centre. Inaugural seminar lecture under this series was delivered by Prof. Peter Mollinga, Director, Centre for Water & Development, School of Oriental & American Studies (SOAS), University of London, UK on February 26, 2015.
- The Centers for International Projects Trust (CIPT), New Delhi (organ of Colombia Water Centre, New York, UK) and AERC agreed to undertake the collaborative work on water-energy-agriculture nexus in Gujarat.
- Organized two days National Workshop on FARMAP software under Central Sector Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in India during on August 21-22, 2014.
- Organized three days 28<sup>th</sup> National Conference of Indian Society of Agricultural Marketing (ISAM) during December 4-6, 2014.
- Organized three days 45<sup>th</sup> Annual Conference of Gujarat Economic Association (GEA) during February 13-15, 2015.
- Constituted the Technical Advisory Committee-Research (TAC-R) with an objective to receive useful feedback on research work completed and to be undertaken at the Centre.
- The faculty members published many 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.
- Submitted the Cost of Cultivation Data for the year 2013-14 to the CS Division of Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India, New Delhi on September 29, 2014.



## 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, 2015)

**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



**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



**The Principal Secretary**

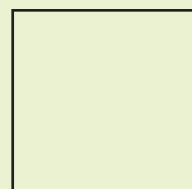
Principal Secretary, Department of Agriculture and Cooperation  
Government of Gujarat, New Sachivalaya  
Gandhinagar – 382010, Gujarat





**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 Agriculture, Cost and Prices (CACP), Govt. of India

**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





CIPT, New Delhi officials Shri Sanjay Dixit, Shri Nikunj Parekh, Dr. Kamal Vatta (Director, CIPT) visited Centre on December 25, 2014



CCS Field Visit –Visavadar Cluster (Junagrah, 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 159 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, Government of India.





## ACADEMIC STAFF / FACULTY MEMBERS

### AERC

Name	Post	Qualification	Specialization
Dr. S. S. Kalamkar (email: 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
Dr. (Mrs) R. A. Dutta (email:rajeshreedutta@yahoo.com) (till June 14, 2014)	Deputy- Director/ Associate Professor	M.A. (Eco.), MS-Agri. Econ. (USA), Ph. D (Eco.)	Agricultural Economics
Dr. Mrutyunjay Swain (email: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. Sunil Kumar Singh (from 23.07.2014 to 07.11.2014)	Assistant Professor/ Research Officer	B. Sc (Agri.) M. Sc. (Dairy Eco.) Ph. D. (Agri. Eco.)	Dairy Economics
Dr. Punit Kumar Agarwal (from 17.11.2014 to 20.12.2014)	Assistant Professor/ Research Officer	B. Sc (Agri.) M. Sc. (Dairy Eco.) Ph. D. (Agri. Eco.)	Agricultural Economics
Dr. Hemant Sharma (email-sharmah007@gmail.com) (w.e.f. January 1, 2015)	Assistant Professor/ Research Officer	M.Sc. (Agri), Ph. D. in Agricultural Economics	Agriculture Marketing and Production Economics.

### CCS

Dr. S.R. Bhaiya (email: foccsguj@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 of Dr. Souvik Bhattacharjya, Fellow, The Energy and Resource Institute (TERI), New Delhi to our Centre on January 5, 2015 for project work on Pulses



Field data collection for the project on Onion- APMC Mahua, Gujarat





## PROJECTS COMPLETED

- i) Title of the Project : **Adoption of Recommended Doses of Fertilisers on Soil Test Basis by Farmers in Gujarat**
- Principal Investigator : Mrutyunjay Swain, S. S. Kalamkar and Kalpana Kapadia
- Sponsored By : Ministry of Agriculture, Govt. of India, New Delhi
- Coordinating Centre : ADRTC, Institute for Social and Economic Change (ISEC), Bangalore
- Date of Commencement : December, 2013
- Date of Submission : December 2014
- Objectives of the Project :
1. To examine the level of adoption and its constraints in the application of recommended doses of fertilisers based on soil test reports by the farmers in Gujarat.
  2. To analyse the impact of adoption of recommended doses of fertilisers on crop productivity and income of farmers in the state.

### **Abstract :**

The study examines the level of adoption and constraints in the application of recommended doses of fertilisers based on soil test (through Soil Health Card Scheme). The impacts of adoption of recommended doses of fertilisers on crop productivity, income and relevant institutional problems have also been assessed for different farmer categories. 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 of Gujarat, i.e. Surendranagar and Rajkot for cotton and Jamnagar and Junagarh for groundnut. The study was conducted following a cluster approach on a sample of 160 control farmers (no soil test) and 240 soil test farmers. The study finds that the level of adoption of

recommended doses by the soil test farmers was reasonably less (around 40 per cent for both cotton and groundnut groups) among the sample farmers. However, the adoption of recommended doses of fertiliser based on soil test has helped the farmers in increasing the agricultural productivity and income. The crop yield after soil tests has increased by 23.8 per cent and 22.9 per cent in case of groundnut and cotton respectively. The low adoption of recommended doses of fertilizers by the soil test farmers was due to various constraints, viz. difficulty in understanding and following application of recommended doses as stated in Soil Health Cards (SHCs), unavailability of technical advice on method and time of fertiliser application, high prices of fertilisers and unavailability of required fertilisers in adequate quantity. It has increased their awareness and confidence level in using appropriate



doses of fertilisers so as to get better yield along with maintaining better soil health. However, the quality of implementation of the programme was unsatisfactory due to focus on target achievement ignoring quality norms, inadequate staff strength, unavailability of required number of soil test laboratories (STLs) and mobile STLs and lack of upgradation of skills of the personnel involved in the implementation of the programme. In majority of cases, it was found that the SHCs were not with farmer. Those were kept together somewhere with some official/s. Though huge amount of money has been spent on implementation of the scheme, the main objective of the programme was overlooked. Depending on nutrient availability in soils, the recommended doses of fertiliser are expected to vary from region to region and from agro-climatic zone to zone. However, same was not reflected in the SHCs provided to the farmers. Also, the recommended doses of fertilisers given on SHC were found to be invariant/same across eight study talukas covering four different districts.

The qualitative improvements need to be made in implementation of SHC programme so as to improve the confidence of farmers on recommendations of SHC. 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. The spread of SHC programme was restricted due to lack of awareness among the farmers. 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 actual procedures followed for soil samples collection need to be monitored properly since it was found that near about 40 per cent of soil samples were collected by the farmers themselves which cannot be technically sound. Some of the farmers during discussion reported that samples had been collected from a single plot but had been shown for a large number of plots. Therefore collected soil samples need to be handled more carefully so as to ensure that farmer get his SHC for his plot/s only. Unless there is a systematic effort to address the bureaucratic lethargy and political interference in implementation of such a wonderful programme, achievement of desired outcomes and the set objectives of the programme would be difficult/delayed. Collection of Soil Samples may be organised in a particular village in campaign mode. All stakeholders [such as farmers, farmer friends (Gram Mitras), village level workers (VLWs), Block level officers fertilizer industries, Co-op Society, SAU students (as part of their internship of farmer's field / village for technical exposure), people representatives] should be brought to common platforms on some occasions so as to bring qualitative improvements and to raise the level of awareness in the villages. 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.





ii) Title of the Project : **Impact of National Food Security Mission (NFSM) on “Input use, Production, Productivity and Income in Gujarat**

Principal Investigator : R. A. Dutta, S. S. Kalamkar & M. R. Ojha

Sponsored By : Ministry of Agriculture, Govt. of India, New Delhi

Coordinating Centre : ADRTC, Institute for Social and Economic Change (ISEC), Bangalore

Date of Commencement : December, 2013

Date of Submission : March 2015

Objectives of the Study

- a) To analyse the trends in area, production, productivity of rice, wheat and pulses in the selected NFSM districts in Gujarat;
- b) To analyse the socio-economic profile of NFSM beneficiary vis-a-vis NFSM- Non beneficiary farmers in Gujarat;
- c) To assess the impact of NFSM on input use, production, income and employment among the beneficiary farmers in Gujarat;
- d) To identify factors influencing the adoption of major interventions (improved technologies) under NFSM in Gujarat;
- e) To identify the constraints hindering the performance of the programme in Gujarat.

**Abstract:**

India plays a very important role by its contribution in world food production. It accounts for 10.6 percent of world’s total cereals production and 25.5 percent of world’s total pulses production in 2011. India’s size in terms of food consumers (16.7 percent of world) is also many times larger than the average size of the rest of the countries, except China. Another important dimension of food security in India is that a large number of rural households in India

are food grain producers, a fact which has got positive implications for food access. Food and nutrition security has remained one of the top priorities of policy planners in post-Independence India. India made significant advances towards achieving its goals of rapid agricultural growth, improving food security, and reducing rural poverty during last four decades. The introduction of Borlaug new seed-fertilizer technology during the mid sixties led to large increases in the yield levels of wheat, rice and later oilseeds and cotton. Food grains production has increased more



than five times from 50.82 million tonnes (mt) in 1950-51 to about 264.77 mt in 2013-14. However, despite the impressive growth and development, India is still home to the largest number of poor people of the world and accounts for about one-fifth of the world' poor. Rural poverty and food insecurity at household level remain pronounced, despite pervasive government interventions. Food availability and price stability, which are considered as a good measure of food security till 1970, were achieved through green revolution and Public Distribution System (PDS), however the chronic food security which is primary associated with poverty, still persisted in the country. In addition to this, per capita per day availability of food grains in India is almost stagnant during last decade.

In order to combat the challenge of deficit food availability in the country, the Government of India launched National Food Security Mission (NFSM) in 2007-08 with an objective to escalate production of rice, wheat and pulses by 10, 8, and 2 million tonnes, respectively by the end of 11th FYP. After achieving the goal of increasing foodgrains production by 20 million tonnes during XIth Plan period, new targets have been set to produce additional 25 million tonnes of foodgrains by 2016-17. Generating employment opportunities was also a key objective. The NFSM target was to enhance farm profitability so that the farming community retains its confidence in farming activity. Therefore, it is essential to evaluate and measure the extent to which the programme and approach has stood up to the

expectations. With this view, the Directorate of Economic and Statistics, Ministry of Agriculture, Government of India assigned us this study. The study is based on secondary and primary level data. The primary survey data were obtained for the agriculture year 2013-14 from total 400 selected wheat growing farmers from two NFSM-Wheat districts (Ahmedabad and Banaskantha) of the State. The results of study show that NFSM programme has helped the selected farmers in raising their crop yield and income from crop cultivation. About 96 percent beneficiary households were aware about the NFSM and the purpose of benefit which they had received. More than 4 percent farmers had availed the benefit without knowing the purpose as well as about NFSM. out of the eight predictor variables as a factor affecting the participation of farmers in NFSM, only two predictor variables (i.e. number of people engaged in farming/agriculture and assets value) found be significantly influencing the decision on participation of farmers in NFSM. On implementation and quality as well as quantity of benefit provided in scheme, about half of the respondent farmers had suggested that timely availability of seeds and other inputs should be ensured, while about 47 percent respondents have mentioned that Gram Sevaks/Gram Mitras should be provided regular training on accurate implementation of NFSM scheme as well as quality inputs should be supplied under NFSM. On the basis of the findings, relevant policy suggestions have been made.





iii) Title of the Project : **Relationship between wholesale prices, retail prices, and details of contributing factors for the price difference of Onion in Gujarat”**

Principal Investigator : S.S. Kalamkar and Manish Makwana

Sponsored By : Ministry of Agriculture, Govt. of India, New Delhi

Coordinating Centre : Institute of Economic Growth (IEG), Delhi

Date of Commencement : December, 2014

Date of Submission : March 2015 (Draft submitted)

Objectives of the Study

- a) To study the relationship between movements in market arrivals and market prices at important mandis, and
- b) To study the divergence among farm harvest prices, wholesale prices, retail prices and export prices and the relationship between these movements.

**Abstract:**

Gujarat has historically been known for business acumen of its people. Gujarat state has made rapid strides in its agriculture sector including the agribusiness sub sector during recent past. Agriculture in Gujarat has been transforming over time from traditional to high value added commercial crops which can be seen from a shift in its cropping pattern from food grains crops to high value cash crops such as oilseeds, fruits, vegetables and spices. The trend in shifting of cropping pattern paved ways for many ancillary industries in the areas of processing, packing, storage, transformation, etc. Agricultural growth in the state is favored by the prevailing eight agro-climatic zones, enterprenuring farming community, policy support from the government, wealth of livestock population, extended coast line and contribution by the agricultural scientist and dedicated NGOs. The Gujarat government has aggressively pursued an innovative

agriculture development programme by liberalizing markets, inviting private capital, reinventing agricultural extension, improving roads and other infrastructure. The mass-based water harvesting and farm power reforms in dry Saurashtra and Kachchh, and North Gujarat have helped energise Gujarat’s agriculture. These semi-arid regions have outperformed the canal irrigated South and Central Gujarat. The shift in agriculture to 8 per cent growth rate during last decade was mainly responsible for the shift of the overall state economy to higher growth path with 10.6 per cent annual growth rate. For ensuring systematic and coordinated approach to all around development of its agriculture sector, the Government of Gujarat had prepared in the year 2000 a 10 year plan called ‘Gujarat Agro-vision 2010’. A comprehensive New Agro-industrial Policy was also announced in 2000. In the new industrial policy, the state has indentifies agro-industries as the major thrust area.

The policy aims to spur investment in agro-processing, agro-infrastructure and hi-tech agriculture by monetary incentives. Adequate returns on agricultural output are one of the driving forces for better agricultural growth. Marketing information is needed by farmers in planning production and marketing, and equally needed by other market participants in arriving at optimal trading decisions. Better marketing channels and warehouse facilities are essential for ensuring adequate returns on agricultural output of farmers. There were 207 market committees in 33 districts of the state, which includes 195 main yards and 206 sub-market yards as on March 31, 2011.

Onion is the important vegetable crop grown in the state. It is generally grown as late kharif or rabi crop. It accounts for about 5.3 per cent of total area under vegetable crops and 6.7 per cent of total vegetable production in the state. Though, state has shared hardly 2.7 per cent area and 4.2 per cent production of Country, the highest productivity level (24415 kg/ha) was recorded as compared to

all India average of 15989 kg/ha in 2012-13. The top five major onion growing districts in the state are Bhavnagar, Rajkot, Junagarh, Amreli and Jamnagar. With this background, the present study was undertaken with specific objectives to study the relationship between movements in market arrivals and market prices at important mandis and to study the divergence among farm harvest prices, wholesale prices, retail prices and export prices and the relationship between these movements. The study observed that the average retail prices were always found higher than the wholesale prices. On an average Rs. 36 per quintal net return was realized by the selected farmers. The major problems faced by the selected farmer households in cultivating onion crop were distance market, lack of market information, poor underground water, collusion among traders/trade malpractices, poor road network for transportation, poor refrigeration facilities, non-availability of good quality of seed, and lack of MSP/ government procurement.



Field Survey for project on use of renewable energy technologies



iv) Title of the Project : **Socio-Economic Impact of Check Dam constructed near Tarakpur Village of Khambhat Taluka of Anand district**

Principal Investigator : S.S. Kalamkar, H.P. Trivedi, S.R. Bhaiya and D. J. Chauhan

Sponsored By : Petlad Irrigation Department, Government of Gujarat, Petlad.

Coordinating Centre : Consultancy Study

Date of Commencement : February 2014

Date of Submission : July 2014

#### Objectives of the Study

1. To evaluate the change in socio-economic status of the people in the selected villages before and after the construction of check dam.
2. To assess the change in area under irrigation and cultivation, before and after the construction of check dam
3. To study the change in crop pattern and crop production before and after construction of dam.
4. To study the employment generated in the selected villages before and after the construction of check dam.
5. To estimate the change in the level of total income before and after construction of dam.
6. To suggest the policies for the future development of check dam.

#### **Abstract:**

Gujarat is known to be a drought prone state, with 70 percent of its geographical area classified as semi-arid and arid land types. The southern part of Gujarat known as Gulf of Cambay (Khambhat) receives 600-800 mm rainfall during the south-west monsoon and it is characterized by severe salinity ingress renders water below the depth of 25 feet completely unsuitable for drinking and irrigation. Therefore irrigation tanks, ponds and other micro water-sheds, known as 'small water bodies' is only the source of assured water supply in some part of this region. Gujarat State has taken up

several innovative initiatives in the field of infrastructure development for conserving water resources. The most viable water conservation structures build are check dams, which are capable of collecting and conserving the precious water resources. A water conservation scheme called "Sardar Patel Participatory Water Conservation Scheme" (SPPWCS) is being implemented by the State Government through which a total of 69433 check dams have been constructed. Under various programmes, a total of 147305 check dams have been constructed in the state so far. This report is an attempt to analyse the socio-economic impact of check



dam constructed near Tarakpur village in Khambhat area of Anand district in Gujarat. As per the public demand, this check dam was constructed by the Irrigation Department, Petlad in 2009. The main purpose of dam was to store sweet water for drinking and irrigation purpose; and to restrict the salty water at surrounding area of the Tarakpur village and the coastal area. It is reported that about 2660 hectares land is brought under irrigation (lift irrigation) and about 2000 cultivators of nearby five villages (Tarakpur, Pandad, Mitali, Vadgam, Rohini) are benefited. The field visit and discussion with beneficiaries revealed that after construction of check dam, assured water availability for irrigation helped increase in the productivity of land and in turn to increase the agricultural production in the villages. The adequate employment opportunities are generated for landless labourer and agriculture workers. The consequent rise in the income level of farmers has reversed the migratory trends of

the villagers to urban areas and has promoted sustainable development.

The results and discussion clearly indicate a strong support to the benefits perceived from the construction of checkdam. The significant impact of availability of check dam water could be easily seen on the livelihood of beneficiary households through positive changes in land and livestock holdings, increase in crop yield and level of income level, reduction in migration patten, etc. Though there are some negative effects which can be easily offset by the benefits of checkdam. Also with the benefits of checkdam, the problems can be taken care. Besides irrigation, water has many other uses such as drinking, bathing and washing. Also due to increase in production and productivity of crops, there was increase in income of farmer as well as agriculture labours which works as catalyst and as a multiplier effect in the development of economy of the selected villages.



Farmer meeting at Visavadar cluster.



v) Title of the Project : **Estimation of Changes in Income and Cost of Production owing to Changes in Inputs and Hybrid Seeds for major Crops of Gujarat**

Principal Investigator : S.S. Kalamkar, M. Swain and S.R. Bhaiya

Sponsored By : Directorate of Economics and Statistics, Govt. of Gujarat, Gandhinagar, Gujarat

Coordinating Centre : Consultancy Study

Date of Commencement : February 2014

Date of Submission : December 2014

Objectives of the Project:

- i) To study the trend in area under hybrid seeds and seed replacement ratios (SRR) of major crops in Gujarat;
- ii) To study the changes in seed and other input use patterns in major crops in Gujarat (by using CACP data);
- iii) To study the seed and other input use patterns at farmer households level;
- iv) To estimate the share of local and hybrid seeds in total cost of production of major crop at farmer household level;
- v) To examine the extent of adoptability of high yielding varieties (HYVs) vis-a-vis local varieties/SRR in the state at farmer household level; and
- vi) To study the changes in cost of production of major crops and their influence on change in income at farmer household level.

**Abstract:**

Gujarat has been a leading state in technology led growth in agriculture. Technology development and diffusion is a key driver of agricultural growth, fuelling cotton production, other farm output and raising the farmers' income substantially. The technological intervention in terms of adoption of more HYV crops has undoubtedly increased the yield levels in the state. The rapid adoption of these HYV crops was mainly facilitated by increase in irrigation coverage and more fertilizer application.

Due to technology intervention, the share of cash crops like cotton and horticultural crops has increased substantially during the last two decades. During 2000s, Bt cotton seeds and hybrid maize seeds have shown spectacular results in the state. The volume growth has come through increased Seed Replacement Rate (SRR) of major crops like cotton, groundnut and other important crops in the state. To complement with good agricultural growth in the state, the availability of quality/certified seeds has been made available as required in various part of Gujarat. Both private and public seed



sector have contributed to the agricultural growth story in the state. While the public sector has played a role in production and distribution of HYV seeds of cereals crops like wheat, paddy, bajra, jowar and maize, while private seed sector has played a pivotal role in developing and promoting the use of Bt cotton and vegetable seeds. Though there has been substantial increase in area under HYV in the state, the inter-district variations in area under HYVs, crop production and productivity have also increased. Furthermore, the pace of growth of area under HYV has declined as such a majority of districts have witnessed a substantial fall in the rate of adoption during 1980s over 1970s in the state. The major concern has been on the front of improvement in SRR of some important crops of the state.

The share of hybrid/bt seed cost in total cost of cultivation ranges from as low as 3.6 per cent in rapeseed-mustard to as high as 30.1 per cent in onion. Among cereals, the share of hybrid/bt seed cost in total cost of cultivation varied from as low as 6.0 per cent in bajra to as high as 13.3 per cent in wheat. In case of tur, cost of hybrid seed accounted for 4.6 per cent. In case of oilseed crops, as seen earlier, groundnut accounted highest share of 30.6 per cent in total cost of cultivation and lowest share of cost on seed was recorded in case of rapeseed mustard (3.6 per cent). The cost of hybrid/bt seed in case of cotton cultivation accounted for 9.3 per cent of total cost. The cotton seed available in the market and which has demand for is bt cotton seed which provides the safeguard against bollworm attack. The only vegetable crop, i.e. onion for which farmers had to purchase seed from market at very high rate and thus accounted

for around one fourth of total cost on seed only (30.1 per cent).

The gap between HYV seeds cost and local seeds cost as a percentage of total cost of cultivation was observed to be much larger in case of onion and maize. In both the cases, the share HYV seeds cost is much higher than the share of local seeds cost. The study reveals that almost in all crops, productivity level of HYV crop was found higher than local seed crop. The highest difference was recorded in case of cotton crop, which may be due to high yield level of Bt cotton. It is important to note here that due to use of HYV seed and other supporting inputs, the cost of cultivation of most of the selected crops was higher than the local seed crops. Thus increase in productivity may help in increase in income subject to realisation of remunerative prices. Thus, it is very much clear from the results that the average yield of crop as well as level of income under HYV seed crop was higher than the local seed crop. Except local variety of maize, no other crops yielded negative returns per hectare to the farmers. However, the farmer's income per quintal of output was found to be negative in case of four local varieties of crops (paddy, maize, groundnut and cotton). This is mainly because of poor quality of local seeds and cultivation of these crops under rainfed conditions that resulted in poor yields compared to high costs incurred.

The main constraints faced by the respondents in adopting HYVs were poor crop germination, unavailability of seed in adequate quantity and in appropriate time and lack of latest knowledge. The main limitations as reported by the respondents





were lack of awareness about seeds tag colour (foundation seeds, certified seeds and truthful seeds), seed treatment methods and government programmes on subsidy on seeds. Thus, it indicates that farmers are unaware about the stages of seed made available to them, about seed treatment as well as government programme related to seed. The state seed certification agency as well as state extension agency should work out plan to disseminate knowledge and technical knowhow to the farmer.

In order to improve the production and productivity of selected crops, the suggestions from the selected farmers were collected during the field survey. About 30 percent of farmer households had suggested that good quality seeds should be made available. Around 20 percent of farmer household had suggested that new insect pest resistant variety should be developed

in order to minimize the use of and cost on insecticides and pesticides. Besides, farmers had suggested that timely availability seed (about 15 percent) with adequate quantity of seed (about 9 percent) should be ensured by the government. About 11 percent of farmer households had suggested that prices of seed should be reduced as well as black marketing of seed should be checked by local authority in order to benefit the resource poor farmer. It was also suggested that more number of farmers should be involved/ given training through farm demonstration/ Krishi Mahostav/ KVK/ SAUs. It was very upsetting to note here that very few farmers had made suggestions on important issues related to seed which has direct impact on improvement of production such increasing seed replacement ratio, seed treatment, failure of certified seed and compensation thereof, over use of seed, etc.

vi) Title of the Project : **Agro-Economic Research for Agriculture Policy: Gujarat and Rajasthan Experience (1961-2013)**

Principal Investigator : Mahesh Pathak, S. S. Kalamkar & V. D. Shah

Sponsored By : AERC (undertaken as self study)

Date of Commencement : June 2014

Date of Submission : November 2014

Objective of the Study

- To review the 152 problem-oriented studies completed at the Centre and prepare a consolidated document highlighting important findings and policy implications made for agricultural and rural development of the states of Gujarat and Rajasthan.

**Abstract:**

On the event of completion of five decades, it was proposed to have a status report on the studies carried at the Centre during the last five decades. This report highlights the

research effort made by the Centre during the period of 52 years, i.e. from 1961 to 2013. The studies are covered subject-wise for the sake of convenience in presentation (categories under 22 sub themes).



vii) Title of the Project : **Socio-Economic Impact Analysis of Introduction of Renewable Energy Technologies in Five Tribal Villages of Gujarat**

Principal Investigator : S.S. Kalamkar, M.N. Swain and Samir Vohara

Sponsored By : Sardar Patel Renewable Energy Research Institute (SPRERI), Vallabh Vidyanagar

Coordinating Centre : Part of research report undertaken by SPRERI on 'Renewable Energy Intervention for Rural Development (Code: SP-2010-TT-1) with support of Ministry of Science and Technology, Govt. of India, New Delhi.

Date of Commencement : November 2014

Date of Submission : March 2015

Objectives of the Project:

- 1) To analyse the extent of adoption of renewable energy technologies in selected tribal villages of Gujarat.
- 2) To analyse the impacts of renewable energy technologies on selected tribal villagers of Gujarat.
- 3) To suggest the measures to raise the adoption level of renewable energy technologies in selected tribal areas of Gujarat.

**Abstract:**

The study is based on the primary data collected from the two selected tribal districts in Gujarat, where RE devices were set up by the agency, i.e. Dahod and Vadodara/Chhota Udaipur. There were two villages (Simal Faliya, Raysingpura/Oliamba) from Chhota Udaipur taluka of Chhota Udaipur/Vadodara district and total three villages from Dahod district [i.e. two villages (Chilakota, Chaidiya) from Limkheda taluka and one village (Dageria) from Zalod taluka] covered under the scheme. The data were collected on 10 RE devices used by selected 105 beneficiary households from these five villages. In order to get some idea about demand and feedback on these RE devices from non-users, the data was collected from 42 non-beneficiary

households (25 percent of total number of beneficiary units) from same villages. The field survey data/observations indicate that at overall level among various instruments distributed, extent of adoption has been much better in case of Solar Lantern (HLS), Biomass Cook Stove, Glass Roof Tiles and Biogas Plant. The selected households have benefitted a lot through these subsidized instruments.

There is high demand for some of SPRERI's devices such as Solar Lantern HLS, Glass Roof Tiles, Side feeded Biomass Cook Stove and Biogas Plant in survey areas, but due to short supply of these devices, some households could not be benefitted with same. Therefore, these solar devices should be made available in adequate number by the agency, if needed



by having collaboration with private agencies. There is also a need to make these devices available in adequate number with local coordinators/service points. This will help in enabling the rural people to purchase the item/s at their own financial convenience. Since these devices are highly subsidized and have demand, normally people close to local authority thus got the benefit, which should be avoided.

The agency should take into account the suggestions made by the beneficiary household (e.g. Top Feeding Stove, Solar light-battery, etc) and should work on the possible corrections in the devices so that households would realize more impact and benefits of RE technologies. More awareness among rural women about important RE device as well as handling of these devices need to be made since devices are mostly handled by women and thus mishandled very often cause damage to the system/device. In some cases, it was observed that women could not start plugging the charger (Solar Lantern-HLS) because of fear of electricity.

One of the reasons of low adoption of some devices was the unavailability of effective service points at local level. The unavailability of spare parts/accessories of these devices in local market, sometime delay in repairing of the devices, long procedure in getting the damaged devices repaired and quality of the service provided have been the major constraints in generating confidence among rural people. These constraints should be addressed by the service provider in a timely manner. There is a need to train the local people to repair the systems in effective manner. The quality training should be provided to the local coordinator/service

provider since they are found not to have sound knowledge about repairing of the devices. If any device gets damaged, as per instructions given to user by agency, they deposit the same with Sarpanch/Local coordinator. Then local coordinator informs to SPRRI personnel. SPRRI personnel visit the vilage as per their convenience/programme. Sometimes, it takes more than couple of months time address the issue.

In case of Bio-gas plant, the technical problems were found to continue for a long period in Simal Faliya, causing spread of negative impression/rumors about the system and partial abandon of the system. Thus, the technical faults should be corrected within a reasonable time period. The number of solar cookers set up was found very less due to less adoptability. It mainly help in boiling the foods. In some cases, the users have never used such devices since it took much time and its use was not preferred/liked by rural women. Thus, agency should make some improvement in same.

Solar Dryer was also not found that much useful for rural households. It was not found to be effective in saving time, though it was found effective in maintaining the taste and colour of the dried food better and cleaner compared to open drying. It is suggested to check the design of these two products (Solar cooker and Solar Dryer) so as to raise the level of efficiency. It is the only way to promote these devices. Frequent problems in battery of Solar Lantern HLS were observed in some study villages. Thus, it is necessary to undertake proper quality checks on these products before distributing them and the supplier of the battery should be cautioned about the technical faults.





viii) Title of the Project : **“Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY) : Gujarat and Rajasthan”**

Principal Investigator : S.S. Kalamkar, S. R. Bhaiya and M. Swain

Sponsored By : Agricultural Development and Rural Transformation Centre, Institute for Social and Economic Change (ISEC), Bangalore (This was all India project separately sanctioned by Ministry of Agriculture, Govt. of India to ISEC, Bangalore)

Date of Commencement : January, 2014

Date of submission : April, 2014

Objectives of the Project:

- 1) To assess the impact of RKVY on input use, production, income and employment among the beneficiary farmers in Gujarat;
- 2) To identify factors influencing the adoption of major interventions (improved technologies) under RKVY and
- 3) To identify the constraints hindering the performance of this programme in Gujarat and Rajasthan.

### **Abstract**

Given the agrarian nature of our economy, agriculture and rural development have always occupied the attention of the planners and policy makers, which is evident from the priorities given to these sectors in terms of resource allocations in different five year plans. India's performance in agriculture over the past five decades has shown considerable progress. However, in the recent past, there had been a sharp deceleration in growth rate of Indian agriculture during the period 1995-96 to 2004-05. Indian agriculture was in a state of crisis and one of the major challenges is to reverse deceleration in agricultural growth rates so as to successfully achieve a higher broad based growth. Realizing the gravity of the situation and steep fall in growth rates in SDP from agriculture, a number of schemes/ programmes were initiated to revive and

accelerate growth in agriculture and allied sectors during the Eleventh plan. Further, National Development Council (NDC), in its meeting held on 29th May, 2007 resolved that a special Additional Central Assistance Scheme (Rashtriya Krishi Vikas Yojana-RKVY) be launched. In order to overcome the above weaknesses and give a major boost to the agricultural sector, the RKVY aimed at providing assistance to the states to ensure a holistic development of agriculture. RKVY was launched during 2007-08 to incentivize the states to enhance public investment to achieve 4 percent growth rate in agriculture and allied sectors during XIth Five Year Plan (FYP) period. RKVY is a State Plan scheme, which is administered by the Union Ministry of Agriculture. The main objective of RKVY is to give boost to the agricultural sector to that yield gaps can be reduced and potential



growth of the state/district can be capitalised. The scheme focuses on agriculture and allied sectors including infrastructure, extension services and capacity building. The RKVY is extended to 12th Five Year Plan due to its success in achieving the targeted goal of production enhancement. It is essential to evaluate and measure the extent to which the programme and approach has stood up to the expectations. The study enlightens the policy makers to incorporate necessary corrections to make the programme more effective and successful during and after the 12th Five Year Plan. Given the above broad objectives, the study attempted to assess the impact of RKVY on input use, production, income and employment among the beneficiary farmers 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>). The primary survey data were obtained from selected sample beneficiary farmer households from eight RKVY districts of the Gujarat State and seven districts of Rajasthan state. The primary household data was collected (in January-March 2014) mainly pertaining to the eleventh five year plan period (2007-08 to 2011-12) and general information was collected for the agriculture year 2012-13. The data were also collected from the various institutions those who had received grants under RKVY.

- 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 to 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 were benefited from more than one programme implemented under RKVY. The highest proportion of farmers surveyed benefited from agriculture mechanization followed by crop development activities, horticulture and micro/minor irrigation projects. Farmers benefited under animal husbandry constituted less than 4 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.
- 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 rotatvator, 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 benefitted 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.

- 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 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 & micro nutrients, etc, most of which were used by 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 focused 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 it 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.

ix) Title of the Project : **Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan (2014-15)**

Principal Investigator : Mrutyunjay Swain

Sponsored By : Ministry of Agriculture, Govt. of India

Date of Commencement : April, 2014

Date of Submission : March 2015

Objectives of the Project: :

- Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan on quarterly basis.





Field visit - Officials of Ministry of Agriculture on August 24, 2014



Group Meeting with Fieldsmen at village cluster



## PROJECTS IN PROGRESS

(i) Title of the Project : **Identifying Cooperatively Developed, Under Developed & Least Developed States in India**

Principal Investigator : S.S. Kalamkar, M. Swain and T. Parihar

Sponsored by : Ministry of Agriculture, Govt. of India,  
New Delhi

Coordinating Centre : AERC, VVN (Proposed by NCDC, New Delhi)

Date of Allotment : December 2013

*Objectives of the Study* :

- To categories the Indian states as per the level of cooperative development as using various relevant parameters.

(ii) Title of the Project : **Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan(2015-16)**

Authors : Mrutyunjay Swain

Sponsored by : Ministry of Agriculture, Govt. of India, New Delhi

Coordinating Centre : ADRTC, ISEC, Bangalore

Date of Commencement : Quarterly – On going project.

*Objectives of the Study* :

- Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan on quarterly basis.





Field Visit of staff of CS Division, Ministry of Agriculture, GOI on August 24, 2014



Celebrating Gandhi Jayanti on October 2, 2014 at Shastri Ground, VVN





## PUBLICATIONS

List of books and research articles published during the year:

### A) Research Articles Published :

#### Dr. S. S. Kalamkar

- “Evaluation of Price Support and Market Intervention Scheme in Rajasthan”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 2, May August 2014, pp. 81-94 by S. S. Kalamkar, M. R. Ojha and T. B. Parihar.
- “Vertical Integration and Contracting in the Indian Poultry Sector: A Study of Broiler Farming in Maharashtra”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 3, September December 2014, pp. 52-73, by S. S. Kalamkar and V. G. Atkare.
- “Agribusiness Initiatives in Gujarat”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 3, September December 2014, pp. 111-129, by T. B. Parihar, S.S. Kalamkar and Mrutyunjay Swain.
- “Seed Industry in Gujarat: Estimation of Supply, Adoption and Costing of Quality Seed”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No.3, September December 2014, Summary, pp. 159-160 by S. S. Kalamkar, M. Swain and S. R. Bhaiya.
- “Agricultural Performance and Agribusiness Potential in Gujarat”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 3, September December 2014, Summary, p. 159, by M. Swain, S.S. Kalamkar and Kalpana Kapadia.
- “Business and Marketing Strategies of SHGs in Food Processing”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No.3, September -December 2014, Summary, p. 97, by Dimple Tresa Abraham and S. S. Kalamkar.
- “Impact of MGNREGA on Agricultural Wage Rates, Farm Labour Availability and Out Migration: Evidences from Rural Rajasthan”, Indian Journal of Agricultural Economics (ISSN 0019-5014), Vol. 69, No. 3, October-December 2014, Summary, p. 370, by Mrutyunjay Swain, Sheekant Sharma and 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.
- “Water Harvesting and Groundwater Recharge in Gujarat”, SPET Research Journal of Social Sciences (ISSN AFG-77962), Vol. 02, No. 02, August 2014, pp. 3-29, by S.S. Kalamkar.



### Dr. Mrtyunjay Swain

- “Sources of Growth and Instability in Agricultural Production in Western Odisha, India”, Asian Journal of Agriculture and Development (ISSN: 1656-4383), Vol.11, No.2, December 2014, pp-51-70, by M. Swain.
- “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. R. Ojha and S. Sharma.
- “Agribusiness Initiatives in Gujarat”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 3, September December 2014, pp. 111-129, by T. B. Parihar, S.S. Kalamkar and Mrutyunjay Swain.
- “Cost Benefit Analysis on Selected Horticultural Crops in Rajasthan”, International Scholarly Research Journal for Interdisciplinary Studies (ISSN: 2319-4766), Conference Volume, January 2015, pp. 241-255, by Mrutyunjay Swain and M. R. Ojha
- “Impact of MGNREGA on Agricultural Wage Rates, Farm Labour Availability and Out Migration: Evidences from Rural Rajasthan”, Indian Journal of Agricultural Economics (ISSN 0019-5014), Vol. 69, No. 3, October-December 2014, Summary, p. 370, by Mrutyunjay Swain, Sheekant Sharma and S. S. Kalamkar.
- “Seed Industry in Gujarat: Estimation of Supply, Adoption and Costing of Quality Seed”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28,

No.3, September-December 2014, Summary, pp. 159-160 by S. S. Kalamkar, M. Swain and S. R. Bhaiya.

- “Agricultural Performance and Agribusiness Potential in Gujarat”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 3, September December 2014, Summary, p. 159, by M. Swain, S.S. Kalamkar and Kalpana Kapadia.

### Dr. S. R. Bhaiya

- “A Study of Cow Livestock Feeding Patten by High Fat Producing and Low Fat Producing Farmers – Some Economic Implications”, Vishleshan (ISSN 0973-6891), Vol. 40 No. 2, July-December 2014, pp. 64-86, by D. Parmar, S. R. Bhaiya and H P Trivedi.
- “A Study of Marketed Surplus and Marketing Cost of Food Grain in Gujarat: A Case Study of Paddy at Micro Level”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 3, September December 2014, pp. 161-162, by Shantilal R Bhaiya.
- “An Irrigation Development for Gujarat Agriculture: Issues and Challenges”, Artha Vikas, (ISSN 0004-3567), Vol. 51, No 1, January- June 2015, pp.10-20, by S. R. Bhaiya and John. P. Parmar.
- “Seed Industry in Gujarat: Estimation of Supply, Adoption and Costing of Quality Seed”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No.3, September December 2014, Summary, pp. 159-160 by S. S. Kalamkar, M. Swain and S. R. Bhaiya.



- “Economic Development in Crop pattern of Gujarat Agriculture”, SPET Research Journal in Social Science (ISSN 23482982), Vol. 3, No. 3, August 2014, pp. 152-167, by S. R. Bhaiya.
- “Agricultural Performance in Gujarat: Recent Experiences”, in Souvenir of 28th National Conference on Agricultural Marketing, organized by AERC, S P University, Vallabh Vidyanagar (December 4-6, 2014), by Mrutyunjay Swain, S. S. Kalamkar, and Kalpana Kapadia.

#### **Shri Manish Makwana**

- “Economic Analysis of Post harvest losses in Food Grains in India: A Case Study of Rajasthan”, Vishleshan (ISSN: 0973-6891), Vol. 41, No.1, January-June, 2015, by Manish Makwana.
- “Oilseeds Economy of Gujarat: Growth Determinants and Challenges”, Souvenir of 28th National Conference on Agricultural Marketing (4-6 December 2014), organized by AERC, S P University, Vallabh Vidyanagar by Mrutyunjay Swain.

#### **Shri Manish Kant Ohja**

- “Evaluation of Price Support and Market Intervention Scheme in Rajasthan”, Indian Journal of Agricultural Marketing (ISSN 0971-5664), Vol. 28, No. 2, May August 2014, pp. 81-94 by S. S. Kalamkar, M. R. Ojha and T. B. Parihar.

#### **B) Article in Edited Books/ Seminar Proceedings/ Conference Souvenir**

##### **Dr. S. S. Kalamkar**

- “Water Resources Management in Gujarat”, in Souvenir of 28th National Conference on Agricultural Marketing, organized by AERC, S P University, Vallabh Vidyanagar (December 4-6, 2014), by S. S. Kalamkar.

#### **C) Working Papers:**

- ‘Problems and Prospects of Oilseeds Production in Gujarat, AERC Working Paper No.2014/01, May 2014, by Mrutyunjay Swain.

#### **D) Rapporteurs Report/Book Reviews/ Articles/Abstracts in Magazines**

- “Rapporteurs Report Theme I on Interface of Organised Retailing and State Agricultural Markets”, 28th National Conference on Agricultural Marketing organized by the Centre, published in Indian Journal of Agricultural Marketing (ISSN 0971-8664), Vol. 28, No. 3, September December, pp. 163-164, by Hema Sundari and S R Bhaiya.





Celebrating Shastri Jayanti on October 2, 2014



Field Visit during Onion project work



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

### Dr. S. S. Kalamkar

- Acted as a resource person and delivered four lectures at UGC sponsored 25th Refresher Course on 'Pure & Applied Economics' organized by UGC Academic Staff College, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during 19/05/2014 to 08/06/2014.
- Acted as a resource person and delivered four lectures on July 9, 2014 at UGC sponsored 27th Orientation Programme organized by UGC Academic Staff College, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during 07/07/2014 to 03/08/2014.
- Acted as External Examiner for preliminary examination of two Ph. D. Students of Institute of Agri-Business Management, Swami Keshwanand Rajasthan Agricultural University, Bikaner (Rajasthan), July 11, 2014.
- Participated at the workshop on 'Dairy Development and Sustainability in Asia in the context of Globalization' organized by Institute of Rural Management (IRMA) on August 1, 2014. Also acted as 'Chairman' of Technical Session I on 'Challenges of Competition and Market in Dairy Development' of the said workshop.
- Participated at the one day prelude Conference on 'Trends in Central State Relationships', organized by Post Graduate Department of Political Science, SPU, VVN and Indian Institute of Public Administration, Local Branch Vallabh Vidyanagar on October 1, 2014.
- Acted as a member of Counseling Committee for new Ph. D. admission in Management at G. H. Patel Postgraduate Institute of Business Management, MBA Programme, Sardar Patel University, Vallabh Vidyanagar on October 1, 2014.
- Participated at the one day policy consultation workshop organized jointly by Indian Institute of Management (IIM), Ahmedabad and International Food Policy Research Institute (IFPRI) on "Support-Led and Economic Growth-Mediated Food and Nutrition Security In India: The Case of Gujarat" on Saturday, November 1, 2014 at Indian Institute of Management, Ahmedabad
- Acted as an External Examiner in Post Graduate Thesis Viva Voce Examination in respect of M.Sc. (Agri) Agricultural Economics Student of Anand Agricultural University, Anand in November 2014.
- Attended 3rd Dr. Kurien Memorial lecture delivered by Professor Raghuram Rajan (Governor, RBI ) on "Save Credit", at Institute of Rural Management, Anand on November 25, 2014.



## ANNUAL REPORT 2014-15

- Participated at the 28th National Conference on Agricultural Marketing of Indian Society of Agricultural Marketing (ISAM) held at our Centre during December 4-6, 2014 and presented a papers on (i) Vertical integration and contracting in the Indian poultry sector: a study of broiler farming in Maharashtra (with V G Atkare); (ii) Business and marketing strategies of SHGs in food processing (with Dimple Abraham); (iii) Agricultural performance and agri-business potential in Gujarat (with Mrutyunjay Swain and Kalpana Kapadia); (iv) Seed industry in Gujarat: estimation of supply, adoption and costing of quality seed (with M. Swain and S. R. Bhaiya) & (v) Agribusiness initiatives in Gujarat state (with Thansingh Parihar and M. Swain).
- Offered the comments as a external referee on Ph.D. thesis (“Analytical study of consumption pattern and investment preferences of households in Solapur city”), submitted by a student of doctor of philosophy in the economics subject for the Ph.D. degree of Solapur university, Solapur, Maharashtra, December 17, 2014.
- Acted as a Reviewer for International Society of Agricultural Economics and reviewed four papers submitted for 29th International Conference of Agricultural Economist, held at Milan Italy during August 8-14, 2015.
- Attended the meeting of Board of Governors (as a member) of India Natural Resource Economics and Management Foundation, Anand held at IRMA, Anand on December 24, 2014. Participated in ceremony on ‘Two decades of INREM (India Natural Resource Economics and Management Foundation, Anand’ held at IRMA, Anand on December 24, 2014
- Acted as a resource person and delivered a lecture on December 29, 2014 at UGC sponsored 13th Short Term Course on ‘E Commerce and E business’ organized by UGC Academic Staff College, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during 29/12/2014 to 03/01/2015.
- Participated and presented a key paper on “Cooperatives and Rural Employment in India” in UGC sponsored (under CAS-I) National Seminar on Rural Employment-with Special reference to Farm and Non-Farm Activities” organized by Centre of Advanced Studies, Post Graduate Department of Economics, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during January 2-3, 2014.
- Acted as a Chairman of Technical Session II on ‘Agriculture’ of UGC sponsored (under CAS-I) National Seminar on Rural Employment-with Special reference to Farm and Non-Farm Activities” organized by Centre of Advanced Studies, Post Graduate Department of Economics, S P University, Vallabh Vidyanagar, Anand, Gujarat during January 2-3, 2014.
- Participated and acted as a panelist in a UGC sponsored National seminar on





- “India, WTO and International Trade and Finance: main Issues”, organized by Department of Business Studies (Commerce), Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat on January 17, 2015.
- Acted as a resource person and delivered a lecture on “Food Security and WTO: Some Issues”, to the participants of 10 days short course (19th to 28 January 2015) on “Strategic Issues in Agricultural Trade under WTO Regime”, organized by international Agribusiness Management Institute, Anand Agricultural University, Anand on January 21, 2015.
  - Acted as a resource person and delivered a guest lecturer at “Practitioners Perspective Series”, organized by Bhikhabhai Jivabhai Vanijya Mahavidyalaya, Vallabh Vidyanagar, Anand on January 28, 2015.
  - Participated at the UGC sponsored National Seminar on ‘Globalization and Rural Marketing’, organized by G.H. Patel Postgraduate Institute of Business Management, S P University on January 31, 2015 and presented a paper on “Role of Agriculture Market Intelligence in Changing Rural Marketing (with Hemant Sharma And Thansingh B. Parihar).
  - Participated in the UGC sponsored International conference on “Weaker Sections: Politics Social Management in Indian Context” organized by Post Graduate Department of Political Science, Sardar Patel University, Vallabh Vidyanagar on February 11, 2015.
  - Participated at the 45th Annual Conference of Gujarat Economic Association organized by the Centre during February 13-15, 2015 and resented a paper on “Poverty and Hunger Eradication in India: Status and Challenges” (with Manish Makwana). Also acted as a Panelist for panel discussion on ‘Globalization at Cross Road’.
  - Acted as an External Referee for Ph. D. Thesis received from Solapur University, Solapur and offered the comments on same in March 2015.
  - Acted as a Chairman of Technical Session I (Agricultural Economics, Agri and Dairy Business Management, Food Processing Industries) of 11th AGRESOC Sub-Committee Meeting on Social Sciences of Anand Agricultural University, Anand, on February 25, 2015.
  - Participated and delivered a lecture/ paper as a resource person on “Water Resources Management in India” at the two days National Seminar on ‘Water Management, sponsored by ‘BCUD Savitribai Phule Pune University, Pune and organised by New Arts, Commerce and Science College, Ahmednagar, Maharashtra on February 26- 27, 2015. Also acted as Guest for Valedictory Function of the above Seminar.
  - Acted as a resource person and delivered a lecture on ‘Research and



Development' (March 21, 2015) at UGC sponsored Interaction Programme for Ph. D. scholars' organized by UGC Academic Staff College, S P University, Vallabh Vidyanagar, Anand, Gujarat during March 2, 22, 2015). Also acted as Chief Guest for Valedictory Function.

### **Dr. Mrutyunjay Swain**

- Presented a paper on "Ethics, Spirituality and Economic Development: Implications for New World Order" at the 45th Annual Conference of Gujarat Economic Association, organized by the Centre during February 13-15, 2015.
- Presented a paper on "Cost Benefit Analysis on Selected Horticultural Crops in Rajasthan", at International Conference on Cost-Benefit Analysis, organized at Thakur College of Commerce & Science, Mumbai on January 29, 2015.
- Presented a paper on "Role of MGNREGA in Rural Development and Change: Evidences from Select Districts of Rajasthan, India", at the UGC Sponsored National Seminar on 'Rural Employment in India: Issues and Challenges' held at PG Department of Sociology, S. P. University, Vallabh Vidyanagar, Gujarat on January 5 & 6, 2014.
- Presented a paper on "Employment Guarantee Program, Right to Work and Women Empowerment: The Case

of MGNREGA in Rajasthan, India", at UGC Sponsored National Seminar on 'Rural Employment in India: Issues and Challenges' held at PG Department of Economics, S. P. University, Vallabh Vidyanagar, Gujarat on January 2 & 3, 2014.

- Presented papers on "Agricultural Performance and Agri-Business Potential of Gujarat" and "HYV Seeds Economy of Gujarat", at the 28th Conference of Indian Society of Agricultural Marketing (4-6 December 2014), organized by the Centre.
- Presented a paper on "Historical Perspectives, Impacts and Adaptation with Drought in India and China" at the 7th Annual Conference of India China Studies, held at The Banaras Hindu University, Varanasi during November 14- 16, 2014
- Presented a paper on "Impacts of MGNREGA on Food Security and Migration: Evidences from Rural Rajasthan, India", at the National Seminar on India's Approach to Rural Development in 21st Century held at Ravenshaw University, Cuttack during 18-19 October, 2014.

### **Dr. Punit Kumar Agarwal**

- Participated in one day workshop on 'Writing Good Research Paper' organized by GH Patel Institute of Business Management of Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.



### **Dr. Hemant Sharma**

- Participated and presented papers on “Income and Employment Generation under Existing Farming Systems in Tribal Dominated Banswara District of Southern Rajasthan”, and “Economics of Existing Farming Systems in Chittorgarh District of Southern Rajasthan”, at National Seminar on Livestock Economy of India: Issues, Challenges and Future Prospects, organized by Institute of Development Studies held at Jaipur (Rajasthan) from 19th - 20th January, 2015 (with Hari Singh and S.S. Burark).
- Participated and presented a paper on “Role of Agriculture Marketing Intelligence in Changing Rural Marketing” National Seminar on “Globalization and Rural Development” organized by G. H. Patel Postgraduate Institute of Business Management, SPU, Vallabh Vidyanagar, under UGC’s DRS-SAP-II on January 31, 2015 (with S.S. Kalamkar and T.B. Parihar).
- Participated in UGC Sponsored National Seminar on “India, WTO and International Trade and Finance: Main Issues” organized by Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar.

### **Shri Manish Kant Ojha**

- Participated in one day workshop on ‘Writing Good Research Paper’ organized by GH Patel Institute of Business Management of Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.

- Participated in UGC Sponsored National Seminar on “India, WTO and International Trade and Finance: Main Issues” organized by Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar in December, 2014.
- Participated in the UGC Sponsored National Seminar on Rural Employment: With Special reference to Farm and Non-farm Activities at Post Graduate Department of Economics, S. P. University, Vallabh Vidyanagar, Gujarat on 2nd and 3rd January, 2015.
- Attended the 25th Refresher Course on Pure & Applied Economics organized by UGC - Academic Staff College Sardar Patel University, Vallabh Vidyanagar, Gujarat during 19/05/2014 to 08/06/2014.

### **Shri Manish Makwana**

- Participated in One day Prelude Conference on “Trends in Central and State Relations” Jointly organized by the P. G. Department of Political Science, Sardar Patel University, Vallabh Vidyanagar and IIPA, Local Branch Vallabh Vidyanagar on 1st October, 2014.
- Participated in One day International Symposium on “Quality of Higher Education in India and USA: A Comparative Perspective” Jointly organized by N S Patel Arts College, Anand and Indian Economic Association (IEA) under CPE UGC, on 6th January, 2014.





## ANNUAL REPORT 2014-15

- Participated in UGC-Sponsored Refresher Course in Pure & Applied Economics, organized by Academic Staff College, Sardar Patel University, Vallabh Vidyanagar during 19th May, 2014 to 8th June, 2014,
- Participated in One-day workshop on “Writing Good Research paper” organized by Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.
- Participated in UGC Sponsored National Seminar on “India, WTO and International Trade and Finance: Main Issues” organized by PG Department of Business Studies, S P University, VVN in December, 2014.
- Participated in UGC Sponsored National Seminar on “Globalization and Rural Marketing” organized by G H Patel Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar on 31st January, 2015.
- Paper presented on “Impact of MGNREGA on Rural Employment Generation in Gujarat” in UGC National seminar on Rural Employment: with special Reference to farm and Non-farm activities at PG Department of Economics, S. P. University, Vallabh Vidyanagar on January 2-3, 2015.
- Participated in UGC Sponsored International Seminar on “Weaker Sections Political Social Management In Indian Context” organized by Postgraduate Department of Political Science, Sardar Patel University, Vallabh Vidyanagar on 11th February, 2015.
- Presented papers on “Towards Achieving Millennium Development Goals 4 and 5” and “Poverty and Hunger Eradication in India: Status and Challenges” at 45th Annual Conference of Gujarat Economic Association organized by the Centre during 13-15 February, 2015.
- Delivered lecture on Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) at N S Patel Arts College, Anand on 23-02-2015.

### **Ms. Kalpana Kapadia**

- Presented paper on “Agricultural Performance and Agri-Business Potential in Gujarat: Recent Experience” at 28th National Conference on Indian Society of Agricultural Marketing held at the Centre during 4th to 6th December, 2014.
- Participated in One-day workshop on “Writing Good Research paper” organized by Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.
- Participated in UGC Sponsored National Seminar on “India, WTO and International Trade and Finance: Main Issues” organized by Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar in December, 2014.



- Participated in the UGC Sponsored National Seminar on Rural Employment: With Special reference to Farm and Non-farm Activities at Post Graduate Department of Economics, S. P. University, Vallabh Vidyanagar, Gujarat on 2nd and 3rd January, 2015.

### **Shri Thansingh Parihar**

- Presented a paper on “Role of Agriculture Marketing Intelligence in Changing Rural Marketing” organized by G H Patel Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar on 31st January, 2015.
- Participated in One-day workshop on “Writing Good Research paper” organized by Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.
- Participated in UGC Sponsored National Seminar on “India, WTO and International Trade and Finance: Main Issues” organized by Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar on December, 2014.
- Participated in UGC National seminar on Rural Employment: with special Reference to farm and Non-farm activities at Post Graduate Department of Economics, S. P. University, Vallabh Vidyanagar, Gujarat on 2nd and 3rd January, 2015.

### **Shri Deep K. Patel**

- Participated at the “ Two Days In-House Training Programme on Soul 2.0 Instillation and Operation ”at Alumni Association, Department of Library and Information Science, Sardar Patel University, Vallabh Vidyanagar and INFLIBNET Centre.Gandhingar during 26 th May and 27th of May 2014.
- Participated at the National Conference on “Emerging Trends, Advancements and Challenges of Academic and Public Libraries” at SVKM’s NMIMS (Deemed to be University, Mumbai), Shirpur during 13th June and 14th of June 2014.
- Participated at the Seminar on “Increasing usage of e-resources in college libraries” at ADINET and K.K.Shah Jarodwala Maninagar Science College, Ahmedabad during 3rd January, 2015.

### **Shri N. G. Chauhan**

- Participated in UGC Sponsored National Seminar on “India, WTO and International Trade and Finance: Main Issues” organized by Postgraduate Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar on December, 2014.
- Participated in One-day workshop on “Writing Good Research paper” organized by Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.



### **Dr. S. R. Bhaiya**

- Presented a paper on “Educational Situation of Rural Women as Socially Weaker Section in Context of India and Gujarat: Economic Aspect” at UGC Sponsored International Conference on “Weaker Sections: Political Social Management in Indian Context”, organized by Post Graduate Department of Political Science, S P University, V. Vidyanagar on February 11, 2014.
- Presented a paper on “A Study of Marketed Surplus and Marketing Cost of Food grain in Gujarat: A case Study of Paddy at Micro Level” at the 28th National Conference on Agriculture Marketing organized by the Centre during December 4-6, 2014.
- Presented a paper on “Diversification of Rural Farm to Non-farm Employment in Gujarat and Its Drivers: District Level Analysis” at UGC Sponsored National Seminar on Rural Employment: With Special Reference to Farm and Non-farm Activities, organized by P G Department of Economics, S P University, Vallabh Vidyanagar, January 2-3, 2015. A research paper
- Presented a research paper on “Agricultural Marketing Practices in Gujarat: A Case Study of Cereal) 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, January 31, 2015.

- Presented a paper on ‘Recently Gujarat is Where in Millennium Development Goals’ at 45nd Annual Gujarat Economic Conference, organized by the Centre during February 13-15, 2015.
- Participated in One Day National Workshop on Writing good Research Paper was held on December 18, 2014 at Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar

### **Shri Gopal S. Machhi**

- Participated in “One-day Workshop on Writing Good Research Paper” organized by P. G. Dept. of Business Management, SPU, Vallabh Vidyanagar on December 18, 2014.
- Participated in the UGC sponsored National Seminar on “Rural Employment : With Special Reference to Farm and Non-Farm Activities” organized by P. G. Dept. of Economics ,SPU, Vallabh Vidyanagar during January 2&3, 2015.
- Participated in two-day Training Programme of New Farmap Computer Software “Software Development centre” Krishi Vistar Sadan, PUSA, Complex, New Delhi.
- Participated in Training Programme Regarding filling up New RT’s developed by DES, New Delhi for CCS Field Staff during 25/02/2015 to 05/03/2015.





### **Shri R. I. Patel**

- Participated in National Workshop for Introducing new FARMAP software for collecting data in Cost of Cultivation Scheme held at Centre during August 21-22, 2014.
- Participated in Training Programme Regarding filling up New RT's developed by DES, New Delhi for CCS Field Staff during 25/02/2015 to 05/03/2015.

### **Shri Brijesh P. Pandya**

- Participated in "National Workshop for Introducing New FARMAP Software for Collecting Data" organized by the Centre during August 21-22, 2014.
- Participated in Training Programme Regarding filling up New RT's developed by DES, New Delhi for CCS Field Staff during 25/02/2015 to 05/03/2015.

### **Shri Hemal U Padhiyar**

- Participated in National Workshop for Introducing new FARMAP software for collecting data in CCS, organized by the Centre during August 21-22, 2014.

- Participated in Training Programme Regarding filling up New RT's developed by DES, New Delhi for CCS Field Staff during 25/02/2015 to 05/03/2015.
- Participated in One-day workshop on "Writing Good Research paper" organized by Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.

### **Shri Hitesh P. Makwana**

- Participated in National Workshop for Introducing new FARMAP software for collecting data in CCS, organized by the Centre during August 21-22, 2014.
- Participated in Training Programme Regarding filling up New RT's developed by DES, New Delhi for CCS Field Staff during 25/02/2015 to 05/03/2015.
- Participated in One-day workshop on "Writing Good Research paper" organized by Postgraduate Department of Business Management, Sardar Patel University, Vallabh Vidyanagar on 18th December, 2014.



Use of two wheeler (bullet – local name Sanido) for inter-culture agricultural Operations



Field Visit during Onion project work



## DETAILS OF FIELD VISITS FOR PROJECT WORK/CCS

### Dr. S. S. Kalamkar

- Conducted surprise visit to four CCS clusters during September 24-25, 2014- Gordka (Gadhada) cluster (Cluster No. 50) of Bhavnagar district; Samadhiyala (Umrالا) (Cluster No. 51) of Bhavnagar district; Lakhanka (Ghogha) (cluster no. 38) of Bhavnagar district and Amaliyara (Tarapur) (cluster no. 13) of Anand district.
- Visited APMC Mahua, Bhavnagar on September 25, 2014 to collect data for research project on "Relationship between wholesale price, retail prices, and detail of contributing factors for the price differences of onion in Gujarat".
- Visited two CCS Clusters (Modasar and Shiyavada) on September 29-30, 2014 for CCS matter.

### Dr. Mrutyunjay Swain

- Visited the field during the primary survey work of research project on "Adoption of Recommended doses of Fertilizers on soil test basis by farmers in Gujarat".

### Dr. Sunil Kumar Singh

- Visited the APMC Mahua, Bhavnagar for data collection work for project on "Relationship between wholesale prices, retail prices, export prices (FOB), prices realized by farmers".

### Shri Manish Kant Ojha

- Visited and collected the data from sample households in selected five villages (Pandad, Vadgam, Tarakpur, Rohini, Mitli) of Khambhat Taluka of Anand for research project on 'Socio Economic Impact of Tarakpur Checkdam in Khambhat Area of Gujarat'.
- Visited and collected the data from sample households in selected districts, viz. Surendranagar, Rajkot, Junagadh, and Jamnagar of Gujarat for research project on "Adoption and Recommended doses of Fertilizers on Soil Test project".
- Visited and collected the data from selected households in Banaskantha, Ahmedabad districts for project on "National Food Security Mission on input Use, production, productivity and income in Gujarat".
- Visited and collected the data from selected households in Rajkot and Bhavnagar, Junagadh for research project on "Relationship between wholesale price, retail prices, and detail of contributing factors for the price differences of onion in Gujarat".





### Shri Manish Makwana

- Visited and collected the data from selected households in five villages (Pandad, Vadgam, Tarakpur, Rohini, Mitli) of Khambhat Taluka of Anand for research project on 'Socio Economic Impact of Tarakpur Checkdam in Khambhat Area of Gujarat'.
- Visited and collected the data from selected households in Surendranagar, Rajkot, Junagadh, and Jamnagar districts for the research project on "Adoption and Recommended doses of Fertilizers on Soil Test project".
- Visited and collected the data from selected households in Banaskantha, Ahmedabad districts for project on "National Food Security Mission on input Use, production, productivity and income in Gujarat".
- Visited and collected the data from selected households in Rajkot and Bhavnagar, Junagadh for research project on "Relationship between wholesale price, retail prices, and detail of contributing factors for the price differences of onion in Gujarat".

### Ms. K. M. Kapadia

- Visited field for pretesting of schedule designed for data collection for the project on "Impact of Renewable Energy Technologies in Tribal Villages of Gujarat" in Dahod and Chhota-Udaipur district.

### Shri Thansingh Parihar

- Visited and collected the data from selected households in five villages (Pandad, Vadgam, Tarakpur, Rohini, Mitli) of Khambhat Taluka of Anand for research project on 'Socio Economic Impact of Tarakpur Checkdam in Khambhat Area of Gujarat'.
- Visited and collected the data from selected households in Surendranagar, Rajkot, Junagadh, and Jamnagar districts for the research project on "Adoption and Recommended doses of Fertilizers on Soil Test project".
- Visited and collected the data from selected households in Banaskantha, Ahmedabad districts for project on "National Food Security Mission on input Use, production, productivity and income in Gujarat".
- Visited and collected the data from selected households in Rajkot and Junagadh for research project on "Relationship between wholesale price, retail prices, and detail of contributing factors for the price differences of onion in Gujarat".
- Visited and collected the data from selected households in Vadodara and Dahod districts for research project on "Socio-Economic Impact Analysis of Introduction of Renewable Energy Technologies in Five Tribal Villages of Gujarat".

### Shri N. G. Chauhan

- Sample survey work for the project on “Socio-Economic Impact of Check Dam in Khambhat”.
- Sample survey work for the project on “Adoption of Recommended doses of Fertilizers on soil test basis by farmers.” in the state of Gujarat.
- Sample survey work for the project on Impact of National Food Security Mission (NFSM) Wheat on input use production, productivity and income in Gujarat.
- Sample survey work for the project on The relationship between wholesale price, retail prices, export prices and prices realized by the farmers Gujarat.

### D. N. Thakkar

- Conducted two CCS cluster field visits with Director.

### Deep K. Patel

- Visited publication Cell of Directorate of Economics and Statistics, GOG and publication cell of Directorate of Animal Husbandry, GOG for collection, and purchase of books / reports/publications for AERC Library on 27.02.2015.



Pilot Field Survey on Renewable Energy Project



**Dr. S. R. Bhaiya**

- Executed the group Meetings- (i) on February 03, 2015 at Harij, Mehsna district for 11 Assistant/ Fieldsman in CCS; (ii) on January 09, 2015 at Medarda, Visavdar, Junagadh district for 05 Assistant/ Fieldsman attended; (iii) on January 10, 2015 at Bedi, Rajkot, Rajkot district for 13 Assistant/Fieldsman attended)
- Conducted surprise visit to the selected two village clusters in Zone 4 & 8 on March 20-21, 2015 and Zone 7 & 8 on January 9-10, 2015.
- Conducted surprise visit to the selected two village clusters in Zone 6 & 7: on March 20-21, 2015 and in Zone 3 on March 26, 2015; Zone 7: cluster number visited 3 dated April 17, 2014.

**Shri Gopal S. Machhi**

- Conducted field visit for village Selection for the new block 2014-15 to 2016-17 in Nandod, Vyara, Jalalpor, Ankleshwar, Bharuch, Vagra, Dabhoi, Sankheda, Devgad Baria, Limkheda, Jhalod, Fatepura, Kadana during the period from 26/05/14 to 05/06/2014.
- Conducted surprise visit of selected village clusters in Mansha and Kadi Tehsil as well as visited Asian Krishmela at Gandhinagar on 05/09/2014.
- Conducted surprise visit of selected village clusters viz. Morbi, Jodia, Mangrol and Visavadar cluster with Shri. Chander

Kant (Additional Statistical Advisor) Ministry of Agri., Govt. of India, Krishi Bhavan, New Delhi on September 29 to October 2, 2014.

- Attend meeting with Field Officer and field Supervisor at Visavadar & Rajkot cluster and conducted surprise visit to village cluster Visavadar, Talala & Rajkot Tehsil from January 9 to 10, 2015.
- Conducted surprise visit of selected village clusters in Khadana, Zalod, Fatepura & Limkheda districts on December 26, 2014.
- Attend meeting with Field Officer and field Supervisor at Harij cluster Dist. Patan and surprise visit of Kadi & Sami Tehsil on 03/02/2015.
- Attend meeting with Field Officer and field Supervisor at Gadhada, Lathi, Babra, Kunkavav, Jetpur and Jasdan Tehsil on 20-21/03/2015.
- Conducted surprise visit of selected village clusters in Sanand, Halvad, & Morbi on April 27, 2015.

**Shri R. I. Patel**

- Conducted the visit to the village clusters in Kheda, Dhanera, Deesa and Visnagar (zone 4) and Bhabhar (zone 8) during 04/08/2014 to 09/08/2014.
- Conducted the visit to the village clusters in Kadi and Detroj (zone 4), Viramgam, Dasada and Sami (zone 8) during 07/10/2014 to 17/10/2014.





- Conducted the visit to the village clusters in Kadi, Sanand and Detroj (zone 4), Viramgam, Dasada and Sami (zone 8) during 15/12/2014 to 22/12/2014.
  - Conducted the visit to the village clusters in Dhanera, Deesa and Visnagar (zone 4), Deodar and Bhabhar (zone 8) during 29/12/2014 to 08/01/2015.
  - Conducted the visit to the village clusters in Visnagar, Kadi and Detroj (zone 4), Viramgam, Dasada and Sami (zone 8) during 25/03/2015 to 1/04/2015.
  - Conducted the visit to the village clusters in Mundra, Abdasa, Bhachau and Halvad of zone 8 and Sanand of zone 4 during 06/11/2014 to 17/11/2014.
  - Conducted the visit to the village clusters in Bhavnagar and Junagadh district for AERC project work during 24th & 25th Sept. 2014.
  - Conducted surprise visits to village clusters in Gandhinagar and Mahesana districts with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.
  - Completed field visit for village selection for the new block 2014-15 to 2016-17 in Deesa, Dhanera, Deodar, Bhabhar, Bhachau, Mundra, Abdasa, Morabi, Halvad and Sanand during 26/05/2014 to 05/06/2014.
  - Conducted cluster visit to check village census work of Limadi, Gondal and Rajkot during 17/06/2014 to 19/06/2014.
- Shri B. P. Pandya**
- Conducted visit to village clusters for data checking in five tehsils namely, Wankaner, Rajkot, Lodhika, Jetpur and Gondal during the period from 15/04/2014 to 21/04/2014.
  - Conducted surprise visit to village clusters in five tehsils namely, Diyodar, Kankrej, Vav, Dhanera and Deesa during the period from 24/04/14 to 29/04/2014.
  - Conducted Field visit for Village Selection for the new block 2014-15 to 2016-17 of Tarapur, limbdi, Jasdan, Rajkot, Gondal, Jetpur, Kalawad, Lalpur, Kalyanpur, Khambhalia, Jodia, and Dhrol during the period from 26/05/14 to 05/06/2014.
  - Conducted Cluster Visit to check Village Census Work of Bharuch, Ankleshwar, Vagra and Dabhoi Talukas during the period from 17/06/2014 to 19/06/2014.
  - Conducted Cluster Visit of Zalod, Fatehpura, Limkheda and Devgadhbharvia Tehsil during the period from 04/08/2014 to 08/08/2014.
  - Conducted Cluster Visit of Mansha and Kadi Tehsils and Asian Krishimela visit at Gandhinagar on 05/09/2014.
  - Conducted Cluster Visit of Jasdan, Babra, Lathi, Kunkavav and Savarkundla Tehsil during the period from 07/10/2014 to 18/10/2014.
  - Conducted Cluster Visit of Kheda and Kapadvanj Tehsil on 07/10/2014.



## ANNUAL REPORT 2014-15

- Conducted Cluster Visit of Mansha and Vadali Tehsil during the period from 10/11/2014 to 14/11/2014.
- Conducted Cluster Visit for field Supervision of five Tehsils namely, Lathi, Babra, Kunkavav, Savarkundla and Jasdan from 15/12/2014 to 21/12/2014.
- Conducted Cluster Visit for field Supervision of Zalod, Fatehpura, Limkheda, Devgadhbaria and Kadana Tehsil during the period from 31/12/2014 to 08/01/2015.
- Attend Agri.Assistant meeting with Field Officer and Statistical Assistant at Harij on 03/02/2015 and Field Visit of Himmatnagar and Kapadvanj Tehsil during the period from 03/02/2015 to 07/02/2015.
- Conducted Surprise Visit and Farmer meeting (At Kunkavav) with Field Officer and Statistical Assistant at Gadhada, Lathi, Babra Tehsil and Field Visit of Jasdan during the period from 21/03/2015 to 23/03/2015.
- Conducted cluster visit of Dabhoi, Sankheda of zone 3 Nadod of zone 2 Dholka of zone 5 Kheda of zone 4, during 07/10/2014 to 17/10/2014.
- Conducted cluster visit of Dabhoi, Sankheda of zone Dholka of zone 5 Kheda of zone 4, during the period from 15/12/2014 to 19/12/2014.
- Conducted cluster visit of Manavadar of zone 6 on 28/01/2015.
- Conducted cluster visit of Manavadar, Mangarol, Sutrapada, Talala of zone 6, during the period from 5/04/2015 to 10/04/2015.
- Conducted completed cluster visit of Dabhoi, Sankheda of zone 3 Nadod of zone during the period from 15/04/2015 to 19/04/2015.
- Conducted cluster visit of Dharol, Jodiya, Kalawad, Lalpur, Khambhadiya, Kalyanpur of zone 7 during 14/11/2014 to 26/11/2014.
- Conducted cluster visit of Dharol, Jodiya, Kalawad, Khambhadiya, Kalyanpur of zone 7 during the period from 17/03/2015 to 20/03/2015.

### **Shri Hemal U. Padhiar**

- Conducted cluster visit of Valod and Sahera of zone 1, Nadod of Zone 2 and Dabhoi zone 3 during the period from 22/04/2014 to 24/04/2014.
- Conducted cluster visit of Manavadar, Visavadar, Mangarol, Sutrapada, Talala of zone 6, during the period from 4/08/2014 to 9/08/2014.
- Conducted surprise visits of Gandhinagar and Mahesana Clusters with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.
- Conducted field visit for village selection for the new block 2014-15 to 2016-17 of Sutrapada, Visavadar, Mangarol,



Manavadar, Talala, Savarkudla, Lathi, Babra, Kukavav, Ghogho, Gadhada, Umralla, during the period from 26/05/2014 to 05/06/2014.

- Conducted cluster visit to check village census work of Kadi, Detroj, Mansa during the period from 17/06/2014 to 19/06/2014.

### **Shri H. P. Makwana**

- Conducted cluster visit of Fatepura and Sahera of zone 3, Mahudha and Mahemdavad (Zone 4) during 24/04/2014 to 26/04/2014.
- Conducted cluster visit of Tarapur of zone 4, Ghoga of zone 6 and Gadhada and Umarala of Zone 7 during the period from 4/08/2014 to 7/08/2014.
- Conducted cluster visit of Limadi of zone 5, Gondal and Jetpur of Zone 6 and Morabi and Rajkot of zone 7 during 8/10/2014 to 18/10/2014.
- Conducted cluster visit of Limadi of zone 5, Jetpur of Zone 6 and Morabi and Rajkot of zone 7 during the period from 15/12/2014 to 19/12/2014.
- Conducted cluster visit of Tarapur and Matar of zone 4, Ghoga of zone 6 and Gadhada and Umarala of Zone 7 during the period from 30/12/2014 to 7/01/2015.
- Conducted cluster visit of Vallabhipur and Bhavnagar of zone 5, Palitana and Mahuva of zone 6 and Gadhada of zone 7 during the period from 15/04/2014 to 21/04/2014.

- Conducted cluster visit of Vyara of zone 1, Bharuch of zone 3 and Wagara of zone 7 on 10/11/2014 to 16/11/2014.
- Conducted visit to selected village clusters in Vyara and Jalalpor of zone 1, Ankleshwar of zone 3 and Wagara of zone 7 during the period from 24/03/2015 to 30/03/2015.
- Conducted surprise visit in Gandhinagar and Mahesana clusters with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.
- Conducted field visit for village selection for the new block 2014-15 to 2016-17 in Matar, Kheda, Dholka, Kapadvanj, Kadi, Detroj, Dasada, Sami, Visnagar, Himmatnagar, Mansa and Vadali during the period from 26/05/2014 to 05/06/2014.
- Conducted visit to selected village clusters for census work in Zalod, Limkheda and Devgadhbharia during the period from 17/06/2014 to 19/06/2014.

### **Shri Jaswant N. Singh**

- Visited and collected the data from selected villages in Dahod and Chota Udaipur districts for research project on "Socio-Economic Impact Analysis of Introduction of Renewable Energy Technologies in Tribal Villages of Gujarat Districts".





Field Survey for Soil Health Card project by the research staff of the Centre



Farewell function- Dr. R. A. Dutta on June 14, 2014



## ADMINISTRATIVE ASSIGNMENTS HANDLED

### Dr. S. S. Kalamkar

- Continued to work as Honorary Director, Cost of Cultivation Scheme- since July 5, 2012- Administrative work.
- Continued to work as Public Information Officer, AERC, S.P. University, Vallabh Vidyanagar since July 19, 2012.
- Continued to work as 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.
- Worked as a Registrar (In-charge) of Sardar Patel University, Vallabh Vidyanagar during March 14, 2015 to April 4, 2015.
- Worked as Assistant Election Officer (to scrutinise the applications/nominations received) for Syndicate (of Sardar Patel University, Vallabh Vidyanagar on March 15, 2015.

### Dr. Mrutyunjay Swain

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

### Dr. S. R. Bhaiya

- Worked as a 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.

### Shri D. N. Thakkar

- Worked as a Assistant Public Information Officer (Assit. PIO) for the Centre since July 19, 2012.

### Shri V. D. Parmar

- Provided Assistance to the Honorary Director, Cost of Cultivation Scheme in Office work related to Cost of Cultivation Scheme.
- Provided Assistance to Dr. S.S. Kalamkar (Director, AERC) during his appointment as a Registrar (In-charge) of Sardar Patel University, Vallabh Vidyanagar during March 16, 2015 to April 4, 2015.



## OTHER DISTINCTIVE/IMPORTANT WORK DONE

### Dr. S. S. Kalamkar

- Worked as a Organising Secretary for 'National Workshop on Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in India', sponsored by the Ministry of Agriculture, Government of India, New Delhi and organized at Cost of Cultivation Scheme (Gujarat), Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, during August 21-22, 2014.
- Worked as a Organising Secretary for 28th National Conference on Agricultural Marketing of Indian Society of Agricultural Marketing (ISAM) held at Agro-Economic Research Centre (Ministry of Agriculture, Govt. of India), Sardar Patel University (SPU), Vallabh Vidyanagar 388 120, Anand, Gujarat during December 4-6, 2014.
- Acted as a Organizing Secretary for the 45th Annual Conference of Gujarat Economic Association organized by Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar during February 13-15, 2015.
- Member, Board of Governors, India Natural Resource Economics and Management (INREM) Foundation, Anand 388001, 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.

- Worked as a Registrar (In-charge) of Sardar Patel University, Vallabh Vidyanagar during March 14, 2015 to April 4, 2015.
- Worked as a Deputy Election Officer of scrutiny committee constituted for application received for member of Synate of Sardar Patel University, Vallabh Vidyanagar on March 15, 2015.
- Visited the High Court of Gujarat at Ahmedabad on September 29-30, 2014 for CCS matter

### Dr. Mrutyunjay Swain

- Attended the series of meetings with the Team headed by Dr. Anil Patel, Deputy Director of Agriculture (Fertiliser), Department of Agriculture and Cooperation, Government of Gujarat at Gandhinagar on 7th October 2014 for discussion on the study titled, "Adoption of Recommended Doses of Fertilizer on Soil Test Basis by Farmers in Gujarat".
- Attended the meeting with the Team headed by Dr. S. R. Choudhary, Director of Agriculture, Department of Agriculture and Cooperation, Government of Gujarat at Gandhinagar on 14th and 15th July





2014 for discussion on the study titled, "Adoption of Recommended Doses of Fertilizer on Soil Test Basis by Farmers in Gujarat".

- Reviewed the papers/reports as follows:
  - Factors affecting UN response to natural disasters: what determines allocation of the Central Emergency Response Fund?" Disasters Journal (ISSN: 1467-7717), a peer-reviewed quarterly international journal published for the Overseas Development Institute (ODI) by Wiley-Blackwell (reviewed in February, 2015).
  - Analysis of Adoption Spell of Improved Common Bean Varieties in the Central Rift Valley of Ethiopia: A Duration Model Approach (JAED-15-008), Journal of Agricultural Economics and Development, (reviewed in March 2015).
  - Benefit-Cost Analysis of Alternative Insect Pests Management in Cashew and Mango Orchards in Tanzania, Quarterly Journal of Econometrics Review (reviewed in February 2015).
  - Vulnerability to Climate Change: Issues and Challenges towards Developing Vulnerability Indicator, Handbook of Research on Climate Change Impacts on Health and Environmental Sustainability, IGI Global (reviewed in January 2015).

- Natural Resource Rental Income and R&D Intensity, Quarterly Journal of Econometrics Review (reviewed in January 2015).
- Assessment of Annual, Monthly and Seasonal Trends in the Long Term Rainfall of the Garhwal Himalayas, Handbook of Research on Climate Change Impacts on Health and Environmental Sustainability, IGI Global (reviewed in December 2014).
- Impact of Rainfall Variability on Maize Yields, Handbook of Research on Climate Change Impacts on Health and Environmental Sustainability, IGI Global (reviewed in December 2014).

#### **Shri D. N. Thakkar**

- Visited to the High Court, Ahmedabad as and when required.

#### **Shri V. D. Parmar**

- Visited the High Court of Gujarat at Ahmedabad along with Dr. Debasis Guha (Hon. Advisor, MOA) and Shri Ashok Rawat (EO, MOA), Ministry of Agriculture, Government of India in the CCS court matter.
- Visited the office of Senior Advocate Shri S. N. Shelat and Advt. Vaibhavi Nanavati for CCS court matter.



**Dr S. R. Bhaiya**

- Delivered a lecture on 'Urbanization and Mordernision and its Issues : Gujarat versus India' at Arts, Commerce & Science College, Bhadran, on August 09, 2014
- Delivered the lecture on 'Role of NSS for Students in Personality Development and Integration for the Nation' at NNS camp, Kasor, Student of Shir J M Patel Arts College, Anand, January 08, 2015
- Delivered the Guest lecture on 'Importance of Economics Subject in Academics and Business' at Shri. R K Parikh Arts and Science College, Petlad, Jan. 29, 2015
- Attend meeting with village farmers regarding agriculture practices arranged by Agriculture Assistant Shri. G B Patel at Amrapar Vilage, Kunkavav Amreli district on March 20, 2015 and introduced about the importance of Cost of Cultivation data.
- Organised Training Program on FARMAP Software Programe 0.2 for cost data entry held on January 19-20, 2015 for field staff of the CCS.
- Organized the three days workshop cum training program for the technical and field staff of CCS during May 31 to June 2, 2014
- Arrangement made towards National Workshop on Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in India organized during August 21-22, 2014 by the Centre.

- Organized the Nine days workshop cum training program of 'New Record Types and Data Posting' for the technical and field staff of CCS at Centre during May 31 to June 2, 2013 & 2014

**Shri Gopal S. Machhi**

- Visited "Asian Krushi Mela" on 05/09/2014 in Gandhinagar.

**Shri R. I. Patel**

- Visited "Asian Krishi Mela" at Gandhinagar with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.

**Shri Brijesh P. Pandya**

- Visited "Asian Krishi Mela" at Gandhinagar with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.

**Shri Hemal Padhiyar**

- Visited "Asian Krishi Mela" at Gandhinagar with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.

**Shri Hitesh P. Makwana**

- Visited "Asian Krishi Mela" at Gandhinagar with all supervisors, Statistical Assistant and Field Officer on 5th Sept. 2014.

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

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### Dr. S.S. Kalamkar

- Continued guidance to the Ph.D. Student (Registered at Gokhale Institute of Politics and Economics, Deemed University, Pune) – 01.
- Continued guidance to the Ph.D. Students (Registered at S P University Vallabh Vidyanagar) – Economics -02, Managements- 03.
- Continued guidance to the Ph.D. Students as a Co-guide (Registered at Symbiosis International University, Pune, Maharashtra) –Managements- 01 (Co-guide).

### Dr. Mrutyunjay Swain

- Continued guidance to the Ph.D. Students (Registered at S P University Vallabh Vidyanagar) – Economics -03.

### Dr. S. R. Bhaiya

- Continued guidance to the Ph.D. Students (Registered at S P University Vallabh Vidyanagar) – Economics -02.
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Shri R. I. Patel, Field Supervisor CCS on farm visit



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

### Dr. S. S. Kalamkar

- 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.
- Nominated as Member of Executive Council of Gujarat Economic Association (GEA) on February 13, 2015 for one year.
- Nominated as Member of Advisory Board of Artha Vikas (a biannual journal of economic development since 1965 published by PG Department of Economics, SP University, Vallabh Vidyanagar.

- Elected as a Vice President of Indian Society of Agricultural Marketing, Hyderabad (2015-2016).
- Member, Board of Governors, India Natural Resource Economics and Management Foundation, Anand.

### Shri Manish Makwana

- AERC Report No. 144 on “Economics of Production, Processing and Marketing of Fodder Crops in Gujarat”, prepared by Shri V. D. Shah, Shri Manish Makwana and Shri Shreekant Sharma is selected (from among the reports completed during April 2010 to March 2012- Research Report No. 138 to 144) for the award of Prof. V. S. Vyas Felicitation Prize (2010-12).



Shri Manish Makwana receiving trophy at the hands of our Hon VC, Dr. Harish Padh



## 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 (AERA), New Delhi (Life Member)
- Maharashtra Society of Agricultural Economics (MSAE), Pune (Life Member)
- Economic & Political Weekly Research Foundation (EPWRF), Mumbai (Annual Member),
- Association of Asian Scholars (AAS), New Delhi (Associate Membership)
- Indian Society of Agricultural Development And Policy, Ludhiana (Life Member)
- Indian Society for Studies in Cooperation- Life Member.
- Gujarat Economic Association (Life Member)
- Marathi Arthashatra Parishad (Maharashtra Economic Association) –Life Member
- 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 Macrothink 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, 2013
- Life Member, Indian Society Agricultural Economics
- Life Member, Indian Economic Association
- Member, South Asian Network for Development and Environment Economics
- Member, Indian Climate Research Network

### Dr. Mrutyunjay Swain

- Member of Academic Council, Institute of Management and Development Action, Indore.



**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
- Journal of Industrial Pollution Control

**Shri Manish Kant Ojha**

- Life Member, Indian Society for Agricultural Economics.
- Life Member, Rajasthan Economic Association.

**Shri Manish Makwana**

- Life Member, Indian Society of Agricultural Economics, Mumbai.
- Life Member, Indian Economic Association.
- Life Member, Agricultural Economics Research Association (AERA), New Delhi.
- Life Member, Gujarat Economic Association.

**Shri Thansingh Parihar**

- Indian Journal of Agricultural Marketing (Life Member)
- Indian Journal of Agricultural Economics (Life Member)

**Shri Deep K. Patel**

- Gujarat Granthalaya Seva Sangh, Ahmadabad (Life Member).
- Alumni Association, Department of Library and Information Science, Sardar Patel University, Vallabh Vidyanagar. (Patron Member).
- Ahmadabad Library Network (ADINET), Ahmadabad (Life Member).
- Indian Library Association (ILA), Delhi (Life Member).

**Dr. S. R. Bhaiya**

- Vishleshan By-annual Magazine, Vishleshan Trust, Surat Subscriber for the five year i.e. 2013 to 2017.
- SPET Research Journal in Social Science, By-annual Magazine N S Patel Arts College, Anand, Subscriber for the five year i.e. 2013 to 2017.



## ACADEMIC EVENTS HELD AND VISITORS AT THE CENTRE

- AERC Foundation Day Lecture 2014: July 1, 2014



Shri Manish Makwana receiving trophy at the hands of our Hon VC, Dr. Harish Padh



**Dr. Tushaar Shah**, Senior Fellow, International Water Management Institute (IWMI), Anand delivered Foundation Day Lecture 2014 on “**Secret of Creating High Performing Knowledge Institutions (HPKI)**” on July 1, 2014.

## National Workshop on Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in India, August 21-22, 2014

- Honorable Vice-Chancellor of Sardar Patel University Dr. Harish Padh inaugurated the workshop.
- Shri T. K. Dutta, Adviser (CS Division) and Shri Chander Kant, Addl. Statistical Adviser (CS), Directorate of Economics and Statistics, Dept of Agriculture & Cooperation, Ministry of Agriculture, Government of India, New Delhi and Dr. Mahesh Pathak, Hon. Adviser (AERC) were the chief guests of the function.
- In this two days workshop, total 83 participants have participated. It includes 11 officers from the Ministry of Agriculture, GOI; 42 participants from 15 CCS Centers (located in different states of India); 01 from Anand Agricultural University, Anand; 15 from our CCS and 14 participants were from our AERC.



Dr. Harish Padh and Dr. T. K. Dutta inaugurating the workshop



Dr. Harish Padh and Dr. T.K. Dutta addressing the gathering



## 28th National Conference on Agricultural Marketing, December 4-6, 2014

Centre hosted the 28th National Conference on Agricultural Marketing of Indian Society of Agricultural Marketing (ISAM) during December 4-6, 2014 at our University campus in collaboration with P.G. Department of Economics, S. P. University, Vallabh Vidyanagar; Department of Agricultural Economics, BACA, AAU, Anand; and IABMI, AAU, Anand

- Presidential Address delivered by Dr. P. K. Joshi (Director-South Asia, International Food Policy Research Institute, South Asia Regional Office, New Delhi) on 'Agricultural Diversification in India: Impact for Inclusiveness'.
- 12th Prof. G. Parthasarthy Memorial Lecture- delivered by Dr. T. S. Papola (Hon. Professor, Institute for Studies

in Industrial Development (ISID), New Delhi) on 'Economic Diversification & Labour Market Dynamics in Rural India'.

- Release of booklet on 'My Memoirs on Five Decades of AERC, VVN', prepared (by Dr. Mahesh Pathak (Hon. Adviser, AERC).
- Special Lecture by Shri R. S. Sodhi, Managing Director, Gujarat Cooperative Milk Marketing Federation (GCMMF), Anand on "Value for Many and Value for Money" on December 5, 2015.
- Special Lecture by Dr. S.S. Acharya, Former Chairman, Chairman, Commission for Agricultural Costs and Prices, Govt. of India on "Reforms In Retailing of Agricultural Products: Why And How" on December 5, 2015.



Dr. S. S. Kalamkar, Dr. N.C. Patel (Hon. VC, AAU, Anand), Dr. Mahesh Pathak, Dr. Harish Padh (Hon. VC, SPU), Dr. Y. K. Alagh, Dr. P. K. Joshi and Dr. T. Satyanarayna releasing a booklet on 'My Memoirs on Five Decades of AERC, VVN', prepared by Dr. Mahesh Pathak.





ISAM NATIONAL CONFERENCE



Dr. P. K. Joshi delivering Presidential address and Dr. S.S. Acharya delivering special lecture



Shri R.S. Sodhi delivering special lecture and Dr. T.S. Papola delivering the Parathasrathy lecture

ISAM NATIONAL CONFERENCE



Dr. Radhakrishna and Dr. Y. K. Alagh addressing the gathering



Felicitation of Prof. Y.K. Alagh by Dr. R. Radhakrishna, President, ISAM



**Organized three days 45th Annual Conference of Gujarat Economic Association (GEA) during February 13-15, 2015 at AERC, Vallabh Vidyanagar.**

- ‘Prof. I. G. Patel Memorial Lecture’ delivered by Dr. Indira Hirway (Director and Professor, Center for Development Alternatives, Ahmedabad) on ‘Need to Expand Concept of Labour, Labour-Force and Employment’.
- ‘Prof. B. R. Shenoy Memorial Lecture’ delivered by Dr. M. Govinda Rao (Emeritus Professor, National Institute of Public Finance and Policy, New Delhi) on “Fiscal Deficits, Growth and Inflation Policy Dilemmas in Indian Economy”.
- Presidential Address delivered by Prof. A. A. Shaikh (Visiting Faculty of B. K. School of Business Management, Gujarat University, Ahmedabad) on “Financial Crisis and Reemergence and Relevance of Keynes: Macroeconomic Mess”.

Publications released

- Agricultural Production and Market Outlook...the Rising Agriculture (English)
- *Krishi Utpadan ane Bazar Darshan ..krishi Uday.... (Gujarati)*
- *Gujaratani Krishi Vishayak Yojanao (Gujarati)*
- *Krishi, Udyan yevam Pashupalan Vibhag ki Yojanaye yavam Janakari- Rajasthan Rajya (Hindi)*



Shri V. D. Shah, Dr. S.S. Kalamkar, Dr. Mahesh Pathak, Dr. A.A. Sheikh, Dr. Alaknanda Patel, Dr. Harish Padh, Dr. Rohit Shukla and Dr. Mohan Patel releasing AERC Report on “Agro-Economic Research for Agriculture Policy: Gujarat and Rajasthan Experience (1961-2013)”



GEA ANNUAL CONFERENCE



Dr. A. A. Shaikh delivering Presidential address and Dr. Govinda Rao delivering memorial lecture



Dr. Indira Hirway and Dr. Alakanandaben Patel delivering the lectures/address



### H.M. PATEL MEMORIAL LECTURE 2015:

The Post-Graduate Department of Economics and the Agro-Economic Research Centre have been working in close collaboration for several decades, and therefore S. P. University has put them under the common umbrella of the 'H. M. Patel Institute of Rural Development' in order to help them to work together which will be mutually beneficial to both of them.

With the help of generous endowment grant given by Dr. Mahesh Pathak (Former Professor and Head, Department of Economics, and presently Hon. Adviser, AERC), the H.M. Patel Memorial Lecture Series has been instituted in 2014.

The 1st H.M. Patel Memorial Lecture was delivered by Shri Hasmukh Shah (Former Chairman & Managing Director, IPCL) on "Independent India: Good Governance-Aspirations & Reality" on February 7, 2014.



The Second H.M. Patel Memorial Lecture was delivered by Dr. V.S. Vyas, Professor Emeritus, Institute of Development Studies, Jaipur and Former Member, Economic Advisory Council to the Prime Minister on "Transforming Higher Education in India from Blind Alley to Knowledge Highway" on February 11, 2015.

**Workshop cum Training Programme for the Technical/Field staff of CCS Gujarat on “Data Collection, Imputing in Worksheet and in Record Types (RTs)” at the Centre during June 30, 2014 and July 1, 2014.**

- Dr. Mahesh Pathak (Hon. Adviser, AERC), Dr. H. P. Trivedi (Former Hon. Director and Dean, Faculty of Arts, SPU & Professor, Dept of Econ., SPU, VVN) and V. D. Shah (Former In-charge, CCS and Research Officer (Retired), AERC, SPU, VVN) were the Chief Guest of inaugural function.



Dr. Mahesh Pathak, Dr. H. P. Trivedi and Shri V.D. Shah at inaugural session



Dr. Mahesh Pathak addressing the field staff





### Other Visitors :

- Shri P. C. Bodh, Adviser, AER Division, Directorate of Economics & Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India, Krishi Bhavan, New Delhi -110 001 visited on June 21, 2014
- Shri K. C. Superkar, Managing Director, National Cooperative Dairy Federation of India Limited, NDDB, Anand visited on December 31, 2014.
- Dr. Tushar Shah, Senior Fellow, International Water Management Institute (IWMI), Anand visited on February 20, 2015.
- Prof. R. S. Deshpande, National Fellow, Indian Council of Social Science Research (ICSSR) & Former Director, Institute for Social and Economic Change (ISEC), Bangalore visited on February 28, 2015.
- Dr. P. K. Sharma, Director, Krishi Vigyan Kendra, At-Po-Dethli, Tal. Matap, Dist. Kheda-387210 visited on May 05, 2015.
- Dr. P. K. Joshi, Director-South Asia, International Food Policy Research Institute, South Asia Regional Office, New Delhi visited the Centre on December 5, 2015.
- Dr. R. Radhakrishna, President, Indian Society of Agricultural Marketing (ISAM) visited the Centre on December 5, 2015.
- Dr. T. Satyanarayana, Hon. Secretary and Treasurer, Indian Society of Agricultural Marketing (ISAM) visited the Centre on December 5, 2015.
- Dr. S. S. Acharya, Chief Editor, IJAM and Indian Society of Agricultural Marketing (ISAM) visited the Centre on December 5, 2015.
- Dr. Kamal Vatta, Director, Columbia Water Centre, New Delhi
- Shri Nikunj Parekh, Project Coordinator (Field Operations), Columbia Water Centre, New Delhi
- Shri K C Supekar, Managing Director, National Cooperative Dairy Federation of India Limited, Post Box No. 79, NDDB D-Lab Campus, Anand 388001, India (December 31, 2014)
- Shri Sovik Bhattacharjya, fellow, centre for global agreement legislations and trade green growth and resource efficiency division, The Energy and Resources Institute, New Delhi on January 5, 2015.



## MEETINGS OF THE GOVERNING BODY

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.



Dr. Mahesh Pathak (Honorary Advisor, AERC) addressing the gathering on AERC Foundation Day celebration on July 1, 2014.



## 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 2014-15, the library subscribed to 16 periodicals which include 5 Indian journals and 5 magazines/weekly.

- Agricultural Economics Research Review (AERR)
- Agriculture Today
- Artha Vikas
- Bhumi Putra
- Down to Earth

- Economic & Political Weekly (EPW)
- Indian Journal of Agricultural Economics (IJAE)
- India Journal of Labour Economics (IJLE)
- Indian Journal of Fertiliser (IJF)
- Indian Journal of Agricultural Marketing (IJAM)
- 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](http://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 68 books to its collection during April 2014 to March 2015.

AERC : 63

CCS : 05

**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, staff have access to the internet both for reference work and communication.



Dr. S. S. Kalamkar presenting his views at UGC sponsored National seminar on "India, WTO and International Trade and Finance: Main Issues", organized by Department of Business Studies (Commerce), S P University, Vallabh Vidyanagar on January 17, 2015



Discussion with household head during field data collection



Field Visit of Officials of CS Division of Ministry of Agriculture, GOI.



## 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



Gujarat Agriculture



### **Standing Administrative Affairs Committee of Cost of Cultivation Scheme (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	21.06.2013 to 20.06.2015
5) One member from Agril. Supervisor/ Field Supervisor (rotation according to seniority)	Shri R.I. Patel	21.06.2013 to 20.06.2015
6) Two members from Fieldsmen, on the basis of their better work performance, in consultation with Field Supervisor and Field Officer, CCS.	Shri J. D. Chauhan Shri. M. S. Parmar	21.06.2013 to 20.06.2015



Visit to APMC Mahua for data collection



### Public Information Officers –

#### AERC and CCS, Sardar Patel University, Vallabh Vidyanagar

<i>Agro-Economic Research Centre</i>	
Appellate Public Information Officer (APIO)	Hon. Vice Chancellor and Chairman, Governing Body, AERC Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
Public Information Officer (PIO)	Director Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
Assistant Public Information Officer (Assit. PIO)	Office Superintendent Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
<i>Cost of Cultivation Scheme</i>	
Appellate Public Information Officer (APIO)	Hon. Vice Chancellor and Chairman, Governing Body, AERC Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
Public Information Officer (PIO)	Honorary Director, Cost of Cultivation Scheme, Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
Assistant Public Information Officer (Assit. PIO)	Field Officer, Cost of Cultivation Scheme, Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat





## 28<sup>th</sup> National Conference on Agricultural Marketing Committees

### Conference Advisory Committee:

- Dr. Harish Padh, Vice Chancellor, SPU, VVN
- Dr. N. C. Patel, Vice Chancellor, AAU, Anand
- Dr. Y. K. Alagh, Chancellor, Central University, Gujarat
- Dr. V. S. Vyas, Former Member, PM Economic Advisory Council
- Dr. R. Radhakrishana, President, ISAM
- Dr. P. K. Joshi, Director South Asia, IFPRI
- Dr. S. S. Acharya, Former Chairman, CACP, GOI
- Dr. Mahesh Pathak, Former, Chairman, APC, GOG
- Dr. S. S. Kalamkar, Director, AERC, SPU (Convener)

### Reception Committee:

- Dr. Harish Padh, Vice Chancellor, SPU, VVN
- Dr. N. C. Patel, Vice Chancellor, AAU, Anand
- Dr. Mohan Patel, Registrar/OSD, SPU, VVN
- Dr. D. J. Chauhan, Head, PG Dept of Econ., SPU, VVN
- Dr. Y. C. Zala, Head, Dept of Agril. Econ., AAU, Anand
- Dr. R. S. Pundir, Asso. Prof. Dept of ABE&P, IABMI, AAU
- Dr. S. S. Kalamkar, Director, AERC, SPU, VVN

### Souvenir Committee:

- Dr. S. S. Kalamkar
- Dr. D. J. Chauhan
- Dr. Y. C. Zala
- Dr. R. S. Pundir
- Dr. M. N. Swain
- Dr. S. R. Bhaiya
- Shri Deep K. Patel

### Publication Committee:

- Dr. S. S. Kalamkar
- Dr. Y. C. Zala
- Dr. Satyanarayana (ISAM)
- Shri V. K. Gondaliya (AAU)
- Dr. K. S. Jadhav (AAU)
- Shri Deep K. Patel
- Shri Rupesh Mistry
- Shri Mihir Rana

### Conference Organizing Committee

- Dr. H. P. Trivedi, Dean, Faculty of Arts, SPU, VVN
- Dr. Mohan Patel, Registrar/OSD, SPU, VVN
- Dr. T. Satyanarayana, Hon. Secretary, ISAM
- Dr. D. J. Chauhan, Head, Dept of Econ, SPU
- Dr. Y. C. Zala, Head, Dept of Agril. Econ, BACA, AAU
- Dr. R. S. Pundir, Head, Dept of ABE&P, IABMI, AAU
- Dr. S. S. Kalamkar, Director, AERC, SPU (Convener)

### Accommodation Committee

- Dr. S. R. Bhaiya
- Shri Gopal Machhi
- Shri R. I. Patel
- Shri T. B. Parihar
- Shri Manish Makwana
- Shri J. N. Singh
- Shri Hemal Padhiyar
- Shri Manishkant Ojha

### Food Committee

- Shri Gopal Machhi
- Shri R. I. Patel
- Shri D. N. Thakkar
- Shri Manish Makwana





### Transport Committee

- Dr. S. R. Bhaiya
- Shri Gopal Machhi
- Shri Brijesh P. Pandya
- Shri Hitesh Makwana
- Shri Mihir Rana
- Shri Jaswant N. Singh
- Mr. Faruk G. Vahora
- Shri Manishkant Ojha
- Shri T. B. Parihar
- Shri N. G. Chauhan
- Shri Kalpesh Dhabi

### Technical Session I

- Dr. S. R. Bhaiya
- Dr. P. K. Agarwal
- Shri Rupesh C. Mistry
- Shri Thansingh Parihar

### Technical Session III

- Dr. Mrutunjay Swain
- Dr. K. S. Jadhav (AAU)
- Ms. Kalpana Kapadia
- Mr. Faruk G. Vahora

### Newspaper, TV Coverage, Entertainment Programme

- Shri Deep K. Patel
- Shri Mihir Rana

### Distribution of Kit/Bag

- Shri B. A. Pathak
- Shri A. M. Patel
- Shri Bhavesh Solanki

### Registration Fee Collection, Distribution of receipt

- Shri D. N. Thakkar
- Shri P. J. Patel
- Shri N. J. Amin
- Ms. Priyanka J. Patel

### Auditorium Arrangement

- Dr. Mrutunjay Swain
- Dr. Sunil Singh
- Ms. Kalpana Kapadia
- Shri Vinod Parmar
- Shri Rupesh C. Mistry
- Shri Mikin S. Patel
- Ms. Bhoomika S. Padhiyar
- Ms. Priyanka J. Patel

### Technical Session II

- Dr. Ganga Devi
- Dr. Rutumbhara Singh
- Shri Mikin S. Patel
- Shri Vinod Parmar

### Banner display, etc

- Shri Manish Makwana
- Shri N. G. Chauhan
- Shri Kalpesh Dhabi

### Photography Arrangements

- Shri Vinod Parmar
- Shri Thansingh Parihar

### Anchor/Announcements

- Shri Brijesh P. Pandya
- Shri Thansingh Parihar

### Certificate distribution

- Shri P. J. Patel
- Shri Bhavesh Solanki
- Shri Deep K. Patel
- Ms. Kalpana Kapadia
- Ms. Priyanka J. Patel

### Overall Coordination

Dr. S. S. Kalamkar

Dr. S. R. Bhaiya



## 45<sup>th</sup> Annual Conference of Gujarat Economic Association Committees

### Conference Advisory Committee:

- Dr. Harish Padh, Vice Chancellor, SPU, VVN
- Dr. V. S. Vyas, Former Member, PM Economic Advisory Council
- Dr. Mahesh Pathak, Hon. Adviser, AERC
- Dr. Rohit Shukla, President, GEA
- Prof. A. A. Shaikh, Conference President, GEA
- Dr. Tushar Hathi, Vice President, GEA
- Dr. Kiran Pandya, Vice President, GEA
- Dr. S. S. Kalamkar, Director, AERC, SPU (Convener)

### Conference Organizing Committee

- Dr. Mohan Patel, Registrar/OSD, SPU, VVN
- Dr. S. Srinivas Rao, Secretary, GEA
- Dr. Gaurang Trivedi, Secretary, GEA
- Dr. S. S. Kalamkar, Director & Professor, AERC
- Dr. S. R. Bhaiya, Field Officer, CCS, AERC

### Souvenir Committee:

- Dr. S. S. Kalamkar
- Dr. Mohan Patel
- Dr. M. N. Swain
- Dr. S. R. Bhaiya
- Mr. Arpit Patadiya (N S Patel)
- Mr. Deepak Parmar (N S Patel)
- Shri Deep K. Patel

### Publication Committee:

- Dr. Mohan Patel
- Dr. S. S. Kalamkar
- Dr. M. N. Swain
- Dr. S. R. Bhaiya
- Mr. Arpit Patadiya (N S Patel)
- Shri Deep K. Patel
- Shri Rupesh Mistry

### Accommodation & Transport Committee

- Dr. S. R. Bhaiya
- Shri Gopal Machhi
- Dr. Dhaval Dave (N S Patel)
- Shri R. I. Patel
- Shri Manish Makwana
- Shri Hemal Padhiyar
- Shri Hitesh Makwana
- Shri Manishkant Ojha

### Auditorium Arrangement

- Dr. Mrutunjay Swain
- Shri Hemant Sharma
- Ms. Kalpana Kapadia
- Shri Vinod Parmar
- Shri J. N. Singh
- Shri Rupesh C. Mistry
- Shri Mikin S. Patel
- Ms. Bhoomika S. Padhiyar
- Ms. Priyanka J. Patel

### Food Committee

- Shri Gopal Machhi
- Dr. Dhaval Dave (NS Patel)
- Shri Sunil Rajput (NS Patel)
- Shri R. I. Patel
- Shri D. N. Thakkar
- Shri Manish Makwana

### Technical Session I

- Dr. S. R. Bhaiya
- Shri Hemant Sharma
- Shri Rupesh C. Mistry
- Shri Thansingh Parihar

### Technical Session II

- Dr. Mrutunjay Swain
- Shri Vinod Parmar
- Shri Mikin S. Patel
- Ms. Kalpana Kapadia
- Mr. Faruk G. Vahora

### Newspaper, TV Coverage, Entertainment Programme

- Shri Deep K. Patel
- Shri Mihir Rana
- Shri Kavita Pandya (N S Patel)
- Shri Brijen Patel (N S Patel)

### Distribution of Kit/Bag

- Shri B. A. Pathak
- Shri A. M. Patel
- Shri Bhavesh Solanki

### Registration Fee Collection, Distribution of receipt

- Shri D. N. Thakkar
- Shri P. J. Patel
- Shri N. J. Amin
- Ms. Priyanka J. Patel
- Shri Bhavesh Solanki

### Banner display, etc

- Shri Manish Makwana
- Shri N. G. Chauhan

### Photography Arrangements

- Shri Vinod Parmar
- Shri Thansingh Parihar
- Shri Deep K. Patel

### Anchor/Announcements

- Shri Brijesh P. Pandya
- Shri Brahmabhatt
- Shri Thansingh Parihar

### Certificate distribution

- Shri P. J. Patel
- Shri Bhavesh Solanki
- Shri Deep K. Patel
- Shri Brijen Patel (NS Patel)
- Ms. Kalpana Kapadia

### Overall Coordination

Dr. S. S. Kalamkar

Dr. S. R. Bhaiya





## APPOINTMENTS, RETIREMENT, RESIGNATION, ETC

AERC Staff	Post	Date
<i>Joined</i>		
Dr. Hemant Sharma	Research Officer	01.01.2015
Ms. Rinku K. Rathod	Research Fellow	02.03.2015
Dr. Sunil Kumar Singh	Research Officer	23.07.2014
Dr. Punit Kumar Agarwal	Research Officer	17.11.2014
<i>Resigned</i>		
Dr. Sunilkumar Singh	Research Officer	07.11.2014
Dr. Punitkumar Agarwal	Research Officer	20.12.2014
<i>Retired</i>		
Dr. R. A. Dutta	Dy. Director	14.06.2014 (Term retirement)
CCS Staff	Post	Date
<i>Resigned</i>		
Shri Nayan V. Patel	Field Man	31.12.2014



Onion seedling (kunji) storage structure in Bhavnagar district

## 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 is working from second floor of the same building.

### AERC:

During the year 2014-15, the following equipments/hardware/software/ office materials were purchased from the grant-in-aid received: 1 Copper Pipe Set, 1 . 1 Conference Table , 2 Cupboard, 1 Micro Phone model, 1 Ahuja M Model, 1 Presentation Pointer, 8 port switch, D link kodel DES 1008 for supply to install computer, 1 SMPS ( power supplier), 1 Mouse (USB), Hard Disk (SN813), 3 HP Make Desktop Computer, 1 Real Time 11FPTCAT 6 cable installation, 2 GB DOR 3 RAM (1), 2 HP Note Book, 3 Hard Disc, 1 Scanner and Tonner refilled.

### CCS:

During the year 2014-2015, the following equipments/hardware/software/ office materials were purchased from the grant-in-aid received:

1 Copper pipe set charge, 1 Imported Projector Screen wall mounting wall installed 12"x16", Ceiling Type USV Tube Philips, 1 PLB Cupboard 3"x4"x18", 1 1 PLB Cupboard 3"x4"x14", Ahuja Speaker , drown Unit for office use, Visitor Chari 16 No + 24 No, 1 Tea- Coffee vending machine- Wagh bakri, 3 Main door repair with Bhairav Aluminum, 1 Microphone mode 23" & Presentation Pointer, 1 Hitachi Multimedia Proector model-1, 1 Wooden Podium, 3 Sony LED TV, 1 Wireless Mouse, Software Quickheal Total Security, 1 LED monitor, Replace Drum 1, 1 HP Colour Printer, 1 HIK vision 4 CH DVR, 4 HIK Vision Camera CC TV cabling, 6 Desktop, 5 Note Book, 3 Hard Disk, 2 Scanner etc.



Cold Storage at APMC Mahua, Bhavanagar (Dehydrated Onion)



## STAFF MEMBERS AS ON MARCH 31, 2015

### AERC Staff:

Sr. No.	Name	Qualification	Designation
1	Dr. S. S. Kalamkar	M. Sc. Ag. (Agri. Eco.), Ph.D. (Agri. Eco.)	Director and Professor
2	Vacant	-	Associate Professor
3	Dr. M. Swain	M.A.(Eco.), M. Phil. (Eco.), Ph.D. (Eco.), NET (UGC)	Research Officer/ Assistant Professor
4	Dr. Hemant Sharma	M. Sc. Ag. (Agri. Eco.), Ph.D. (Agri. Eco.)	Research Officer/ Assistant Professor
5	Shri M .R. Ojha	M.A.(Eco.), NET (UGC)	Research Associate
6	Shri M. C. Makwana	M.A. (Eco.), B. Ed, P.G.D.C.A.	Research Associate
7	Ms. K. M. Kapadia	M.A. (Eco.), M. Phil. (Eco.)	Research Associate
8	Shri T. B. Parihar	B. Sc. ( Agri.) M. Sc. (Agri.)	Research Associate
9	Shri Deep K. Patel	B.A., B. Lib., M.A., M. Lib., M.Phil (Lib.Info.Sci.)	Res. and Ref. Assistant (Lib.)
10	Shri D. N. Thakkar	M.Com, LL.B (Spl.) PGDBM, PGDCA	Office Superintendent
11	Shri V. D. Parmar	B.Com, LL .B (Spl.) D.C.A, D.T.P., Eng. Steno (100 WPM), MBA (HRM)	P.A. to Director
12	Shri P. J .Patel	M.Com, P.G.D.B.A., P.G.D.M.M.	Account Assistant
13	Shri N .J. Amin	S.Y.B.Com., Typing/Dip .in Co- opn.	Jr. Clerk / Typist
14	Shri N. G. Chauhan	B.A. (Eco.). M.A. (Eco.)	Research Fellow*
15	Shri Rinku Rathod	B.A. (Eco.). M.A. (Eco.)	Research Fellow*

Notes: \* Temporary positions.





## Cost of Cultivation Scheme

Staffing Pattern as on March 31, 2015

### Office Staff:

Sr. No.	Name	Qualification	Designation
*	Dr. S.S. Kalamkar	M. Sc. Ag. (Agri. Econ.), Ph.D. (Agri. Econ.)	Hon. Director
1	Dr. S. R. Bhaiya	M.A. (Eco.), M. Phil. (Eco); Ph.D. (Eco.)	Field Officer
2	Shri G. S. Machhi	M.A. (Eco.), M. Phil. (Eco)	Assistant Statistician
3	Shri R. I. Patel	M.A. (Eco.)	Agriculture Supervisor
4	Shri B. P. Pandya	M.Sc. (Agri.)	Field Supervisor
5	Shri H. U. Padhiyar	M.A. (Eco.), M. Phil. (Eco)	Field Supervisor
6	Shri H. P. Makwana	M.A. (Eco.), M. Phil. (Eco)	Field Supervisor
7	Shri B. A. Pathak	B.Com.	Jr. Ck/Typist
8	Shri A. M. Patel	B.Com.	Jr. Ck/Typist
9	Shri B. M. Solanki	HSC(Commerce), BCA, MS-Office, Internet, Tally ERP 9	Ad-hoc Jr. Clerk/Typist *
10	Shri J. N. Singh	B.Com, M.Com, PGDCA	Ad hoc Computer*
11	Shri F. G. Vahora	BCA, PGDCA, B.A.(Eco)	Ad hoc Computer*
12	Shri R. C. Mistry	BSC(Che.), DCA, MCS, MCP, APC, CCC	Ad hoc Computer*
13	Shri M. S. Patel	BSC(Comp), PGDCA, MCA	Ad hoc Computer*
14	Ms. B. N. Patel	BA, PGDCA	Ad hoc Computer*
15	Shri Mihir Rana	BCA, PGDCA, PGDMM, MCA	Ad hoc Computer*
16	Shri V.C. Harijan	SSC	Peon*

### Field Staff:

Sr. No.	Name	Designation
17	Shri B. I. Prajapati	Agriculture Assistant
18	Shri B. B. Chavda	Agriculture Assistant
19	Shri P. T. Dave	Agriculture Assistant
20	Shri J. S. Raj	Agriculture Assistant
21	Shri C G Baria	Agriculture Assistant
22	Shri P C Patel	Agriculture Assistant
23	Shri. M. O. Trivedi	Agriculture Assistant
24	Shri. G A Patel	Agriculture Assistant
25	Shri D. G. Patel	Agriculture Assistant
26	Shri G. B. Patel	Agriculture Assistant
27	Shri A. J. Sheratia	Agriculture Assistant
28	Shri Bhaskar K. Patel	Agriculture Assistant



## ANNUAL REPORT 2014-15

29	Shri H. M. Pandya	Agriculture Assistant
30	Shri Bharat K. Patel	Agriculture Assistant
31	Shri J. V. Patel	Agriculture Assistant
32	Shri L. S. Vidja	Agriculture Assistant
33	Shri Jasmat D Chauhan	Agriculture Assistant
34	Shri A. D. Vaghela	Agriculture Assistant
35	Shri A. I. Vora	Agriculture Assistant
36	Shri Juvan D. Chauhan	Agriculture Assistant
37	Shri Y. D. Bhrambhatt	Agriculture Assistant
38	Shri Nayan V. Patel	Agriculture Assistant
39	Shri M. N. Singala	Agriculture Assistant
40	Shri K. J. Bhoraniya	Agriculture Assistant
41	Shri S. I. Patel	Agriculture Assistant
42	Shri S. R. Chaudhary	Agriculture Assistant
43	Shri J. K. Patel	Agriculture Assistant
44	Shri S. B. Parmar	Agriculture Assistant
45	Shri S C Padhiyar	Agriculture Assistant
46	Shri J. N. Patel	Agriculture Assistant
47	Shri S. A. Panchal	Agriculture Assistant
48	Shri A. K. Mistry	Agriculture Assistant
49	Shri D. D. Vanvi	Field Man
50	Shri M. S. Parmar	Field Man
51	Shri P. S. Patel	Field Man
52	Shri S. C. Bhoi	Field Man
53	Shri P. M. Makwana	Field Man
54	Shri H. B. Patel	Field Man
55	Shri K. M. Baldha	Field Man
56	Shri D. S. Vaghela	Field Man
57	Shri A. P. Rabaria	Field Man
58	Shri S. C. Machhi	Field Man
59	Shri V. H. Chaudhary	Field Man
60	Shri R. B. Patel	Field Man
61	Shri A. B. Prajapati	Field Man
62	Shri Bhumik M Patel	Field Man
63	Shri H. D. Bhoi	Field Man
64	Shri B. B. Mobh	Field Man
65	Shri T. P. Parekh	Field Man
66	Shri A. R. Solanki	Field Man
67	Shri N. P. Patel	Field Man
68	Shri B. R. Patel	Field Man
69	Shri J. J. Patel	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 2014-15 is presented below. The audited utilization certificate is submitted to the granter in the first week of April, 2015.

AERC	Amount in Rs.
i) Unspent Balance as on April 1, 2014	7,88,189.18
ii) Grant-in-aid received during 2014-15	1,20,00,000.00
iii) Other Income	00.00
Total	1,27,88,189.18
Total Expenditure during 2014-15	1,14,99,098.00
Unspent Balance as on March 31, 2015	12,89,091.18

CCS	Amount in Rs.
i) Unspent Balance as on April 1, 2014	91,01,725.37
ii) Grant-in-aid received during 2014-15	3,38,48,000.00
iii) Other Income	NIL
Total	4,29,49,725.37
Total Expenditure during 2014-15	3,47,25,123.00
Unspent Balance as on March 31, 2015	82,24,602.37



Emerging Area- Solar Cropping





Dr. S.S. Kalamkar, Dr. N.C. Patel, Dr. Harish Padh, Dr. Y. K. Alagh, Dr. R. Radhakrishna, Dr. P. K. Joshi and Dr. T. Satyanarayna releasing ISAM National Conference Souvenir



AERC-SPRERI Research Team- Discussing with Woman





CCS Staff Training Cum Workshop Programme- June 30, 2014



AERC Foundation Lecture July 1, 2014



CCS National Workshop organized at Centre in August 2014





## **Agro-Economic Research Centre**

*For the states of Gujarat and Rajasthan*

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

**H.M. Patel Institute of Rural Development**

Opp. Nandalaya Temple, Post Box No. 24

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