

ANNUAL REPORT

2013-14



Agro-Economic Research Centre
Sardar Patel University

Vallabh Vidyanagar 388120, Anand, Gujarat



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Agro-Economic Research Centre

For the states of Gujarat and Rajasthan

(Ministry of Agriculture, Govt. of India)

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The Director
Agro-Economic Research Centre
For the states of Gujarat and Rajasthan
(Ministry of Agriculture, Govt. of India)
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CHAIRMAN'S STATEMENT

It gives me immense pleasure to take note of the achievements of the Agro-Economic Research Centre (AERC) for the year 2013-14. I am pleased to note that the Centre has continued the tempo of academic activities for the 53rd year in succession. The Annual report 2013-14 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 initiation of AERC Foundation day Lecture Series, Invited Seminar/lecture Series, Faculty Seminar Series, HM Patel memorial Lecture Series, revival of Dr V. S. Vyas Felicitation prize; Training Programme for field staff in CCS, etc), work completion and extension of academic activities in the Centre. The Centre has completed five research projects. The Ministry has entrusted five new projects to the Centre. Besides, Centre has undertaken two research projects for public organizations such as Directorate of Economics and Statistics, Govt. of Gujarat, Gandhinagar and Irrigation Department, Govt. of Gujarat, Petlad. The Centre has also tied up with Institute for Social and Economics Change (ISEC), Bangalore for its larger project on RKVY. 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 furthering the attainment of the objectives of the Centre.

The main challenges faced by the AERC during the year under report was important administrative decisions proposed to be adopted by the Ministry which deserves 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





FROM THE DIRECTOR'S DESK

I am happy to present before you annual report of the Centre for the period from April 2013 to March 2014. 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.

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 five research projects and initiated AERC Foundation day Lecture Series, H M Patel memorial Lecture Series, Invited Guest Lecture/Talk Series, Faculty Seminar Series, Working Paper Series, Training to Field Staff of CCS, etc. The Centre has launched its own website www.aerspu.ac.in on July 1, 2013. Recognizing the importance of library and computer support for academic activities, we upgraded both these support systems. While our activities expanded and studies deepened further, the availability of timely and adequate funding has continued to limit our ability to undertake the strengthening of academic support system and to initiate 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



HIGHLIGHTS OF THE YEAR

- The faculty and the research staff members of the Centre completed five research projects and seven projects are under progress.
- AERC website (<http://www.aercspu.ac.in>) was launched on July 1, 2013 on the occasion of 52nd AERC Foundation Day Celebrations.
- Dr. Sudarshan Iyengar, Vice-Chancellor, Gujarat Vidyapeeth, Ahmedabad delivered Foundation Day Lecture 2013 on “Agro Economic Research Centres: Need to Introduce Fresh Agenda” on July 1, 2013.
- Dr. Tushaar Shah, Senior Fellow, International Water Management Institute (IWMI), Anand delivered the first guest seminar lecture/talk on “Shaping a Good Researcher: My Experience”, on April 17, 2013.
- Dr. V.S. Vyas, Professor Emeritus, Institute of Development Studies, Jaipur and Former Member, Economic Advisory Council to the Prime Minister delivered second invited guest lecture/talk on “Shaping a Good Researcher: My Experience”, at the Centre on March 13, 2014.
- H.M. Patel Memorial Lecture Series was instituted with the help of generous endowment grant given by Dr. Mahesh Pathak (Hon. Adviser, AERC). First 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.
- Revived the Dr. V. S. Vyas Felicitation Prize for best research report conducted in the Centre during two years period.
- Instituted the ‘Best Fieldman/Agriculture Assistant’ Award in CCS.
- Four seminars were delivered by the staff of the Centre.
- Two days training programme for the Technical/Field staff of Cost of Cultivation Scheme was organized on June 30, 2013 and July 1, 2013. Shri T. K. Dutta, Adviser (CS) and Shri Chander Kant, Addl. Economic Adviser (CS), DES, DAC, Ministry of Agriculture, Govt. of India, New Delhi were the Chief Guests of this function.
- The Technical Advisory Committee-Research (TAC-R) was constituted with an objective to receive useful feedback on research work completed and to be undertaken at the Centre.
- The Standing Administrative Affairs Committee of Cost of Cultivation Scheme (CCS) was constituted in order to create a healthy environment and work culture in CCS by addressing the administrative issues.
- The faculty published more than fifteen research papers/articles in journal/ seminar proceedings/ edited books and participated in many seminars, conferences, workshops and training programmes.
- The Education Department Roaster Cell, Department of Social Justice and Empowerment, Govt. of Gujarat, New Sachivalaya, Gandhinagar certified the roaster register prepared separately for AERC and CCS.

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 14, 2014)

Dr. Harish Padh

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



The 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 302 004, 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, 380 054; &
Chancellor, Central University of Gujarat, Gandhinagar 382 030, Gujarat



Shri Raj Kumar, IAS

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



The Principal Secretary

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



Dr. Sudarshan Iyengar

Vice Chancellor, Gujarat Vidyapith
Ahmedabad - 380 014, Gujarat



Dr. Amita Shah

Director, Gujarat Institute of Development Research
Gota, Ahmedabad 380 060, Gujarat



Dr. Surjit Singh

Director, Institute of Development Studies
8 B, Jhalana Institutional Area
Jaipur 302 004, Rajasthan



Dr. D. J. Chauhan

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



Dr. Mahesh Pathak

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



Dr. S.S. Kalamkar

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



Dr. Rajeshree Dutta

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





ABOUT THE CENTRE

The Agro-Economic Research Centre (AERC) for the states of Gujarat and Rajasthan was established in July 1961 at the Sardar Patel University, Vallabh Vidyanagar by the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India, New Delhi. It was late Shri H.M. Patel (ICS ret'd.) who not only provided the vision for establishing such an Institute but also ensured the much needed support and encouragement for its growth at Vallabh Vidyanagar. AERC has been enjoying autonomy status in its working. The Centre has completed 53 glorious years (1961-2014) 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 153 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 numbers of clusters have been increased from 40 to 60 thereby providing a wider and varied base for generation of reliable estimates. Now ten principal crops of Gujarat Viz., Bajra, Groundnut, Cotton, Arhar and Onion, Paddy, Wheat, Maize, and Rapeseed/Mustard and Sesame 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), 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) Rajshree Dutta (email:rajeshreedutta@yahoo.com)	Deputy- Director/ Associate Professor	M.A. (Eco.), MS-Agri. Econ. (USA), Ph. D (Eco.)	Agricultural Economics
Shri V. D. Shah (email:vasantbhai.shah@yahoo.com)	Research Officer/ Assistant Professor	M.Sc.(Stat.)	Crop Costing, Bt Technology, Econometrics, Water Conservation and Harvesting
Dr. Mrutyunjay Swain (email:mrutyunjay77@gmail.com)	Research Officer/ Assistant Professor	M.A. (Eco.), M. Phil. (Eco.), Ph.D. (Eco.), UGC (NET)	Agricultural and Resource Economics, Food Security and Sustainable Development, Climate Change, Disaster Management.

CCS

Dr. S.R. Bhaiya (email: foccsgui@gamil.com)	Field Officer	M.A. (Eco.), M. Phil. (Eco.), Ph.D. (Eco.)	Agricultural Economics, Cost of Cultivation, Research Methodology
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PROJECTS COMPLETED

I	Title of the Project	: “Problems and Prospects of Oilseeds in Gujarat: Special Reference to Groundnut”
	Author	: Mrutyunjay Swain
	Sponsored by	: Ministry of Agriculture, Govt. of India, New Delhi
	Coordinating Centre	: Institute for Economic and Social Change (ISEC), Nagarbhavi, Bangalore (Karnataka)
	Date of Commencement	: January, 2012
	Date of Submission	: April 2013

Objectives of the project:

- To examine trends and pattern of growth of different edible oilseeds over time and across districts and identify the sources of growth in edible oilseeds output in state;
- To determine the impact of price and non-price factors influencing the supply response behavior and demand for edible oilseeds and oil in the state; and
- To identify major constraints in the edible oilseed and oil palm cultivation and suggest policy options to increase oilseeds production and productivity in the State.

Major Findings:

This study investigates the major problems and prospects of oilseeds production in Gujarat. It examines the trends and pattern of growth of different edible oilseeds over time and across districts and identify the sources of growth in area and production of major oilseeds and competing crops in the state. The study also determines the impact of price and non-price factors on the productivity and acreage under oilseeds and identifies the major constraints in the edible oilseed cultivation in the state. Though the growth in area under major oilseeds has been poor, the growth in production and yield of major oilseeds has been quite impressive over last 3 decades. The yield effect was found to

play a dominant role in increasing oilseeds production during the reference period (TE1983-84 to TE 2009-10). The area under main oilseed (groundnut) has decreased considerably, whereas the that of cotton, the main competing crop, has substantially increased during the corresponding period. The prevailing level of yield gap in cultivation of both groundnut and cotton was found to be considerably high in the study regions. High level of gaps were observed to prevail in fertilizer dose applied, weeding, disease management, control of pesticides and insecticides. Excessive rain during critical stages of crop growth and the risk of crop failure/yield variability due to biotic and



abiotic stresses were found as major agro-climatic constraints for the sample farmers. Among economic and institutional constraints, high input costs and supply of poor quality inputs, irregular supply of power/electricity, shortage of human labour and inadequate knowledge about disease and pest management, crop damage by blue bull (*Nilgai*) and pigs were found to be the major ones.

II Title of the Project	:	“Evaluation of Price Support and Market Intervention Scheme in Rajasthan”
Authors	:	S.S. Kalamkar, M.K. Ojha and T.B. Parihar
Sponsored by	:	Ministry of Agriculture, Govt. of India, New Delhi
Coordinating Centre	:	Institute of Economic Growth (IEG), Delhi
Date of Commencement	:	August 2012
Date of Submission	:	April 2013

Objectives of the project:

- To understand coverage of MIS and PSS across crops and regions.
- To ascertain factors that influence coverage of crops across regions in Rajasthan.
- To understand levels and basis of participation of farmers in MIS and PSS of selected crops in Rajasthan.
- To understand problem of different stakeholders in operation of MIS and PSS of selected crops in Rajasthan.
- To study the effect of MIS and PSS on the market price of selected commodity in Rajasthan.
- To assess efficiency of Central/State Agencies in operation of MIS and PSS of selected crops in Rajasthan.
- To suggest policy measures to improve operations of MIS and PSS in Rajasthan.

Major Findings:

The agricultural price policy is aimed at intervening in agricultural produce markets to influence the level of fluctuations in prices and the price-spread from farm gate to the retail level. The MSP linked to procurement has served the country well in the past three decades. However, in recent years it has started encountering problems mainly because of surpluses of several agricultural commodities and excessive built up of stocks with FCI. It has also come under serious attack in recent years for recommending



higher support prices than warranted by the cost of production and supposed distortion of the market, leading to food deprivation. Besides, the Central agencies often incur loss in their operation of PSS and MIS and the amount of expenditure incurred in the above schemes suggest that Union and State Government spend considerable amount of public money in undertaking the above scheme; however plight of growers of many of the agriculture commodities continues. The wide gap between price received by producer and price paid by consumer of commodity is another important concern of marketing of agriculture commodities in the country. Therefore, the present study has

been carried out to evaluate the PSS and MIS in Rajasthan state by using data collected on two crops, gram (PIS) and garlic (MIS) from 60 farmers each from two districts. From the study, it is clear that there were bottlenecks in the operations of MIS and PSS in the state. The major problems perceived by farmers in marketing of selected crops were delay in payments, lack of processing units, non-availability of cold storage/ warehousing facility and low market price. Thus, in order to give remunerative prices to the farmers and to prevent them from distress sale, these bottlenecks need to be removed. The storage and processing facilities need to be created on priority basis.

III Title of the Project	:	“Marketed and Marketable Surplus of Major Food grains in Rajasthan”
Authors	:	V.D. Shah and Manish Makwana
Sponsored by	:	Ministry of Agriculture, Govt. of India, New Delhi
Coordinating Centre	:	Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad
Date of Commencement	:	January, 2012
Date of Submission	:	April, 2013

Objectives of the project:

- To estimate marketable and marketed surplus for Wheat, Bajra, Maize and Gram crops in Rajasthan.
- To estimate proportion of farm retention for consumption, seed, feed, wages and other payments in kind etc. for selected crops.
- To examine role of various factors such as institutional, infrastructural, socio-economic etc. in influencing marketed surplus decision at households level.

Major Findings:

In the context of proposed *National Food Security Bill, 2013*, which is considered to be the world’s largest experiment in ensuring food security to poor (as it intends to meet

the food needs of 75 per cent of rural and 50 per cent urban households), production performance of food grains and generation of its adequate marketed surplus assume



greater significance. In the absence of adequate marketed surplus of food grains, the development process of a country can be adversely affected. The quantum of marketed and marketable surplus generated by different strata of farmers is likely to differ from year to year, from region to region and farm to farm in same region. Thus in order to feed our 1.24 billion population (2011), it is important to understand the latest behaviour pattern of marketable and marketed surplus of food grains as well as the variables affecting it, so as to frame sound policies in respect of marketing, prices, import and export of food grains. During the year 1996-1999, Directorate of Marketing and Inspection (DMI) had conducted nationwide survey for estimation of marketed surplus and post-harvest losses for all important food grain crops. However, in the post-1999 era, significant changes have been taken place in crop pattern, retention pattern, dietary habits, marketing pattern etc. Thus, the estimates generated from the survey conducted during 1996-1999 are not reflecting the recent changes and has become obsolete. Therefore, recognizing the need of conducting fresh survey for generating reliable and update estimates at household level on (i) marketed and marketable surplus and factors influencing same as well as (ii) crucial items like retention for family consumption, seed, feed, wastage, post harvest losses etc., the Directorate of Economics and Statistic (DES), Ministry of Agriculture, Government of India, has asked our Centre to undertake this empirical study for the state of Rajasthan covering four major food grain crops viz., bajra, wheat, maize and gram. The Centre for Management in

Agriculture, Indian Institute of Management, Ahmadabad acted as a coordinator of this empirical study.

The study is based on secondary and primary data. For study, primary data were collected by recall method for agriculture year 2011-12 from 453 sample households spread over 5 sample districts of Rajasthan, viz. Alwar, Chittorgarh, Churu, Hanumangarh and Udaipur. The primary data were collected during the period from September to November 2012.

The few important findings emerged from the study are as under:

1. The marketed surplus output ratio (MSR) for bajra, maize, wheat and gram was found 63.68 percent, 79.08 percent, 54.87 percent and 84.38 percent, respectively. MSR for wheat and bajra was lower as compared to maize and gram mainly because of lower size of output and higher retention for home consumption and other purposes.
2. Entire marketed surplus of wheat, maize, bajra and gram was disposed off within three months after the crop harvest, invariably realizing the lower prices. The reasons quoted by the selected farmers were lack of appropriate storage, cash needs, repayment of debts, small size of marketed surplus and lack of tendency to hold for speculative purpose.
3. The food grains market was highly dominated by the private agencies. Overall, out of the total marketed surplus of bajra, maize and gram, more than 80 percent quantity was sold to private agencies. The presence of private traders



and money lenders were observed who exploited the producers in the absence of an organised dissemination of market information. There was not much active role of government agencies/regulating markets in food grains marketing. Thus, owing to various reasons, access to regulated market was very low.

4. In case of most of the small land holding size households, marketed surplus was found higher than marketable surplus for the crops like wheat, bajra and gram. This indicates the distress sale in order to meet immediate cash needs for discharging their liabilities and to purchase necessities for family. In fact, after some time farmer has to buy the same product from market at much

higher prices for family consumption purpose.

5. Size of output and size of retention are the most influencing factors in determining the size of marketed and marketable surplus. Family size, farm size, access to institutional credit, irrigation, market integration etc. are the other factors which are impacting on marketed surplus of food grains.
6. Despite of importance of estimates on marketed and marketable surplus, there is no system of generating these estimates at regular time interval. The proper arrangements needed to generate these estimates regularly at pre-determine time period.

IV	Title of the Project	:	“Assessment of Pre and Post Harvest Losses in Tur Crop in Gujarat”
	Authors	:	Rajeshree A. Dutta and Manish Makwana
	Sponsored by	:	Ministry of Agriculture, Govt. of India, New Delhi
	Coordinating Centre	:	Institute for Economic and Social Change, Bangalore.
	Date of Commencement	:	January, 2012
	Date of Submission	:	May, 2013

Objectives of the project:

- To estimate the physical and financial losses caused by pests and diseases in tur at farm level.
- To examine the measures of pests and disease management to reduce the crop loss due to pests and diseases at farm level.
- To arrive at post harvest losses in tur under different agro climatic conditions.
- To identify factors responsible for such losses and suggest ways and means to reduce the extent of losses in different operations in order to increase national productivity.



Major Findings:

Despite the remarkable progress made in increasing food production during last six decades of planned development, India has the largest group of food insecure people in the world. A large proportion of the population in India faces a chronic inability to access basic food, and hunger is widespread. There are many reasons for this, one of which is food losses occurring in the pre and post-harvest stage. With the introduction of *National Food Security Bill*, it has become essential to address all these issues which adversely affect the food grains availability in the country. There are numerous factors affecting pre and post-harvest losses in crop production, i.e. from the soil in which the crop is grown to the handling of produce when it reaches the shop. Pre-harvest production practices may seriously affect post-harvest returns. Pests and diseases are the foremost causes of reduction in crop yield. Besides the losses at farm level, post-harvest operations such as harvesting, threshing, transportation and storage also losses the significant quantity of grains. Pulses have been grown since millennia and have been a vital ingredient of the human diet in India. However, these crops are adversely affected by the number of biotic and abiotic stresses which are responsible for low crop yield and loss in production. The gap between demand and supply of pulses in India has been widening and has necessitated annual import of pulses of around 3 million tons. In view of above, it is required to reduce the losses occurred at pre and pre harvest stages.

Recognizing the need for generating reliable estimate of these losses at household level,

the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India has asked our Centre to undertake a study on "*Assessment of Pre and Post Harvest Losses in Tur Crop in Gujarat*". This study is coordinated by Agriculture Development and Rural Transformation Centre (ADRTC), Institute for Social and Economic change (ISEC), Bangalore. The study is based on both primary as well as secondary level data. The primary data were collected for the agriculture year 2011-12 (July to June) from 120 selected sample households of Vadodara and Bharuch districts of Gujarat.

The few important finding emerged from the study are as follows:

1. The most important constraint faced by the selected farmers in tur cultivation in Gujarat was attack of insect pests and disease, followed by water deficiency and high cost of inputs. Major insect pest attacking on tur was pod borer resulted yield loss up to 50 per cent. Dry root rot and fusarium mildew were main diseases affected crop production up to 10 per cent.
2. The magnitude of pre-harvest losses due to pests, disease and weeds infestation was together worked out to be 0.74 and 0.73 quintal per acre for local and HYV variety of seed respectively. Overall total post-harvest loss was estimated to be 3.05 kg per quintal. Out of total loss, maximum loss was reported in harvesting (1.08 kg) followed by threshing (0.69 kg), storage (0.52 kg), transportation (0.35 kg), winnowing (0.29 kg) and handling



(0.21 kg). Therefore timely availability and use of pesticides, weedicides and insecticides is necessary in order to reduce these losses.

3. Due to non-availability of proper storage system with farmer, farmer is forced to sell his produce immediately after harvest at very low rate. Therefore, proper scientific storage facility required to be created at village and market level.
4. It is observed that most of the selected farmers sought advice from the private traders and they did not rely on guidance provided by government extension agencies. Therefore, government needs

5. Good crop husbandry is important for reducing losses. There is also a wide range of post-harvest technologies that can be adopted to improve losses throughout the process of pre-harvest, harvest, temporary storage, transport, handling and market distribution.
6. Improvement in crop productivity and reduction in pre and post harvest losses is pre-requisite step to insure food security. Therefore efforts should be made to minimize the losses on both the accounts.

V	Title of the Project	: "Assessment of Pre and Post Harvest Losses in Soyabean Crop in Rajasthan"
	Authors	: Rajeshree A. Dutta and Manish Makwana
	Sponsored by	: Ministry of Agriculture, Govt. of India, New Delhi
	Coordinating Centre	: Institute for Economic and Social Change, Bangalore.
	Date of Commencement	: January, 2012
	Date of Submission	: May 2013

Objectives of the project:

- To estimate the physical and financial losses caused by pests and diseases in tur at farm level.
- To examine the measures of pests and disease management to reduce the crop loss due to pests and diseases at farm level.
- To arrive at post harvest losses in tur under different agro climatic conditions.
- To identify factors responsible for such losses and suggest ways and means to reduce the extent of losses in different operations in order to increase national productivity.

Major Findings:

India is one of the largest producers as well as the consumer of oilseeds and edible oils in the world and this sector occupies an important position in the agricultural economy. It



contributes about 7 per cent of the global vegetable oils production with 14 per cent share in the area. Though it has the largest cultivated area under oilseeds in the world, crop yields tantamount to only 50-60 percent of the world's average. Also the growth in the domestic production of oilseeds has not been able to keep pace with the growth in the demand in the country. Low and unstable yields of most oilseed crops, and uncertainty in returns to investment, which result from the continuing cultivation of oilseeds in rainfed, high risk production environments, are the factors leading to this situation of wide demand-supply gap. Therefore, India being deficient in oils has to import about 40 percent of its consumption requirements.

India is fortunate to have a wide range of oilseeds crops grown in its different agro-climatic zones. Soybeans, groundnut, mustard/ rapeseed, sesame, safflower, linseed, nigerseed/castor, and cottonseeds are the major traditionally cultivated oilseeds. Soybean and rapeseed mustard acquires the lion's share of the overall oilseeds production in India. In fact soybean alone constitutes more than 40 percent of total oilseeds produced by India in 2012. Soybean is classed as an oilseed rather than a pulse and recognized as the 'golden bean' or the 'miracle bean' all over the world. India ranks fifth in production of soybean in the world. The progress of soybean cultivation in India represents a case of success in diversification. In 1970, when new varieties were introduced for commercial purposes, the future of soybean was seen in its use as pulse (*dhal*) to meet growing demand and deficiency of proteins. Other uses of soybean were thought to be soya milk, nuggets etc. In fact,

as it turned out, soybean production in India has been primarily pushed by its demand as edible oil in the domestic market and as oilcake in overseas markets. Due to its unique characteristic, like adaptability to varied agro-climatic condition, high nutritional value, significant role in preventing and treating chronic disease, used as a source of animal feed and scope for various processed food products, soybean is gaining popularity among farmers. But this crop is vulnerable to infestation by insects, mites and fungi and is highly susceptible to mechanical injury and damage occurring during post-harvest handling. In view of importance of soybean crop in Indian economy and in order to have reliable estimates of losses at pre and post harvest stages, the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India has asked our centre to undertake a study on "Assessment of Pre and Post Harvest Losses in Soybean Crop in Rajasthan". The Institute for Social and Economic change (ISEC), Bangalore acted as Coordinator of this study. The study is based on both primary as well as secondary level data. The primary data were collected for agriculture year 2011-12 (July to June) from 120 sample households of selected districts (Chittorgarh and Jhalawar) of the state of Rajasthan. The field data was collected during the period from August- September 2012. The few important findings emerged from the study are as under.

- 1) The most important constraint faced by the selected farmers in soybean cultivation was pests and diseases attack followed by availability of poor seed quality and low output. Major insect pests affecting soybean crop were

pod borer, girdle beetle/ stem borer and tobacco caterpillar. Production loss was estimated to higher due to pests attack than loss due to diseases (like soybean mosaic virus, bacterial blight and dry root rot) and weeds.

- 2) The magnitude of crop loss in soybean due to pests, disease and weed infestation was estimated to be 2.38 and 2.27 quintals per acre for local and high yielding varieties of soybean respectively (which worked to be 23.66 per cent loss for local and 20.74 per cent loss for HYV varieties to normal production). Average yield rate was estimated to be higher in HYV seed. In order to reduce these losses, good crop husbandry is important. There is also a wide range of post-harvest technologies that can be adopted to improve losses throughout the process of pre-harvest,

harvest, temporary storage, transport, handling and market distribution.

- 3) On an average, total post-harvest losses in soybean were estimated to be 3.41 kg per quintal. The losses were recorded more in case of group of small farmer gr (4.38 kg) than large farmer (2.70 kg). Out of total loss, maximum loss was reported in harvesting (1.45 kg) followed by threshing (0.85 kg), storage (0.65 kg), transportation (0.21 kg) and winnowing (0.11 kg). There is need to provide scientific storage facility and proper training of use of thresher in order to reduce the losses.
- 4) It is encouraging to note that most of the selected soybean farmers reported that the advice given by government extension agents was helpful and they rely on same.



Field Visit - Dr. R. A. Dutta, Dr. M. J. Bhende (ISEC Bangalore) & Dr. S. R. Bhaiya



PROJECTS IN PROGRESS

- I Title of the Project : Relationship between wholesale prices, retail prices, and details of contributing factors for the price difference of Onion in Gujarat
- Authors : S.S. Kalamkar, Manish Makwana
- Sponsored by : Ministry of Agriculture, Govt. of India, New Delhi
- Coordinating Centre : Institute of Economic Growth (IEG), Delhi
- Date of Commencement : April 28, 2014
- Objectives of the Study* :
- To study the relationship between movements in market arrivals and market prices at important mandis (using secondary data)
 - To study the divergence among farm harvest prices, wholesale prices, retail prices and export prices and the relationship between these movements (using primary and secondary data)
- II Title of the Project : Adoption of Recommended doses of Fertilizer on Soil Test basis by Farmers in Gujarat.
- Authors : Mrutyunjay Swain and S. S. Kalamkar
- Sponsored by : Ministry of Agriculture, Govt. of India, New Delhi
- Coordinating Centre : Institute for Economic and Social Change, Bangalore.
- Date of Commencement : April 28, 2014
- Objectives of the Study* :
- 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.
 - To analyse the impact of adoption of recommended doses of fertilisers on crop productivity and income of farmers in the state.



- III Title of the Project : Impact of National Food Security Mission on input use, Production, Productivity and Income in Gujarat
- Authors : Rajeshree Dutta, S.S. Kalamkar, M. K Ojha
- Sponsored by : Ministry of Agriculture, Govt. of India, New Delhi
- Coordinating Centre : Institute of Economic Growth, Delhi
- Date of Commencement : December, 2013
- Objectives of the Study* :
- To analyse the trends in area, production, productivity of rice, wheat and pulses in the NFSM and non NFSM districts (if any) in the selected states;
 - To analyse the socio-economic profile of NFSM vis-a-vis Non-NFSM beneficiary farmers of wheat and rice;
 - To assess the impact of NFSM on input use, production and income among the beneficiary farmers;
 - To identify factors influencing the adoption of major interventions (improved technologies) under NFSM; and
 - To identify the constraints hindering the performance of the programme.
- IV Title of the Project : Identifying Cooperatively Developed, Under Developed & Least Developed States in India
- Authors : S.S. Kalamkar, M. Swain and T.B. Parihar
- Sponsored by : Ministry of Agriculture, Govt. of India, New Delhi (NCDC proposed study)
- Date of Commencement : January 2014
- Objective of the Study*
- To categories the Indian states as per the level of cooperative Development as using various relevant parameters.
- V Title of the Project : Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan
- Author & Associated Staff : M. Swain, M. K. Ojha & K. Kapadia
- Sponsored by : Ministry of Agriculture, Govt. of India, New Delhi



Coordinating Centre : Institute for Economic and Social Change,
Bangalore.

Objectives of the Study

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

VI 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

Authors : S.S. Kalamkar, M. Swain and S.R. Bhaiya

Sponsored by : Directorate of Economics and Statistics, Govt. of Gujarat (GoG), Gandhinagar.

Date of Commencement : February 2014

Objectives of the Study

- To study the trend in area under hybrid and local seed / seed replacement ratios (SRR) of major crops in Gujarat;
- To study the changes in seed and other input use patterns in major crops in Gujarat (by using CACP data);
- To study the seed and other input use patterns at farmer households level;
- To estimate the share of local, hybrid, GM seeds in total cost of production of major crop at farmer household level;
- 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
- To study the changes in cost of production of major crops and their influence on change in income at farmer household level.

VII Title of the Project : Socio-Economic Impact of Check Dam constructed near Tarakpur Village of Khambat Taluka of Anand district

Authors : S.S. Kalamkar, H.P. Trivedi, S.R. Bhaiya & D. J. Chauhan

Sponsored by : Petlad Irrigation Department, Government of Gujarat, Petlad, Anand, Gujarat.

Date of Commencement : February 2014

Objectives of the Study :

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

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

Authors : Mahesh Pathak, S. S. Kalamkar and V. D. Shah

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

Date of Commencement : January, 2014

Objectives 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.



Field Visit by Dr. S. S. Kalamkar & Dr. S. R. Bhaiya



PUBLICATIONS

List of books and research articles published during the year:

A) Research Articles Published:

- “Biotechnology in Indian Agriculture: Review of Adoption and Performance of Bt Cotton”, Millennium Asia (An International Journal of Asia Studies), Vol. 4, No. 2, pp. 211-236 (ISSN: 0976-3996) Sage Publications, New Delhi, by S.S. Kalamkar.
- “Economic Aspects of Technology Adoption in Soybean”, The Asian Economic Review, Vol. 55, No. 1, April 2013, pp. 99-112 (with N.V. Shende and A. M. Athare) (ISSN 0004-4555), by S.S. Kalamkar.
- “Food and Nutrition Security in India”, Indian Journal of Management Review, Special Issue, August 2013 (ISSN 0976-9056), pp. 246-253, by S.S. Kalamkar.
- “Rainfed Agriculture in India: Issues and Challenges”, Indian Economic Journal, Special Issue on Agricultural Growth in Indian Economy: Regional Experiences and Policies, December 2013 (ISSN 0019-4662), pp.13-48, by S.S. Kalamkar and G. Pandya.
- “Social Impact of Interrupted Employment: An Empirical Analysis”, Indian Economic Journal, Special Issue on Un-organised Non-Farm sector in the Indian Economy- Emerging Issues and Policies, December 2013 (ISSN 0019-4662), pp.37-66 by P. Princy Yesudian and S.S. Kalamkar.
- “Emerging Retail Sector in Agricultural Marketing”, Productivity, Vol. 54 No. 4, 2014, pp. 415-420, (ISSN: 0032-9924, eISSN: 0976-3902) by Sangeeta Shroff, S.S. Kalamkar, Jayanti Kajale.
- “Agricultural Growth and Instability in Maharashtra: Trends and Determinants”, Agricultural Economics Research Review, (ISSN: 0971-3441), Vol. 26, Summary, Conference Number 2013, p. 220, by S. S. Kalamkar.
- “Assessing Policy Interventions in Agribusiness and Allied Sector Credit versus Credit plus Approach for Livelihood Promotion in Maharashtra”, Indian Journal of Agricultural Economics, (ISSN: 0019-5014), Vol. 68, No.3, July-September 2013, Summary, by S. S. Kalamkar and Sangeeta Shroff.
- Problems and Prospects of Oilseeds Production in Rajasthan: Special Reference to Rapeseed-Mustard, Agricultural Situation in India, (ISSN: 0002-1679), Vol.70, No.3, June 2013, pp-39-50 by Mrutyunjay Swain.



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- Impact of the National Horticulture Mission Scheme in Rajasthan: An Executive Summary', Artha Vikas, (ISSN: 0004-3567), Vol.69, No.3, June 2013, pp-1-19, Mrutyunjay Swain.
 - Role of Institutional Support System in Drought Management: Evidence from Bolangir District, Odisha (summary), Indian Journal of Agricultural Economics, (ISSN: 0019-5014), Vol.68, No.3, July-September 2013, Mrutyunjay Swain.
 - "Human Development Status in Gujarat", Artha-Vikas (ISSN 0004-3567) Vol. XXXIX, No.1, January-June, 2013, pp.62-75, by Manish Makwana.
 - "Assessment of Marketed, Marketable Surplus and Post Harvest Losses of Major Food grains in Rajasthan", Vishleshan (ISSN 0973-6891), Vol.39, No. 2, July-December, 2013, pp.26-42, by Manish Makwana.
 - "Agricultural Constraints in Indian Economy: A Critical Aspect", SPET Research Journal in Social Science, Vol. 2 No. 2, August 2013, pp.176-186 (ISSN AFG-77362) by John. P. Parmar and S. R. Bhaiya.
 - "Economic Impact on Area & Production of Groundnut of MSPs in Gujarat", SPET Research Journal in Social Science, Vol. 3 No. 3, February 2014, pp. 49-54 (ISSN 2348 2982), by John. P. Parmar and S. R. Bhaiya.
 - "A Study of Marketable and Marketed Surplus of Rice (Paddy) in Gujarat: A Micro Level Approach", SPET Research Journal in Social Science, Vol. 3 No. 3, February 2014, pp. 79-90 (ISSN 2348 2982) by S. R. Bhaiya and John. P. Parmar.
- B) Article in Edited Books/ Seminar Proceedings**
- "Food Security in South Asia", in C. Vondan (Eds) *South Asia in the Globalised World*, New Century Publications, New Delhi, ISBN 978-81-7708-347-7), 2014, pp. 56-87, by S.S. Kalamkar.
 - Micro-Enterprises of SHGs and Challenges to Continuity", in Surendra Mor (Edited) *Microfinance and Microentrepreneurship*, Vista International Publication House, Delhi (ISBN 978-93-81604-78-6), August 2013, pp. 153-162, by S.S. Kalamkar and Dimple Tresa Abraham.
 - "Agrarian Crisis and Food Security in India", in K. Suman Chandra, V. Suresh Babu and Pradip Kumar Nath (Edited) *Agrarian Crisis in India: The Way Out*, Academic Foundation, New Delhi (ISBN 9789392700321), 2013 pp. 235-282, by S.S. Kalamkar.
- C) Working Papers:**
- Working Paper 2013/01 - "Price Support and Market Intervention Scheme in Rajasthan", by S.S. Kalamkar, M. R. Ojha and T. B. Parihar



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

Dr. S. S. Kalamkar

- Participated on invitation at the national conference on Indian Agriculture titled, “the State, the Market and the Agripreneurs”, organized by the Indira Gandhi Institute of Development Research (IGIDR), Deemed University, Mumbai during April 3-5, 2013, as a part of the yearlong academic celebration of IGIDR’s silver jubilee.
- Presented a paper on “Price Support and Market Intervention Scheme in Rajasthan”, at the Centre (Faculty Seminar Series) on June 26, 2013.
- Participated on invitation at the International Conference on ‘Microfinance and Micro-entrepreneurship: Issues and Challenges’ organized by Department of Economics, Bhagat Phool Singh Mahila Vishwavidyalaya, Sonapat (Haryana) in association with Banque Populaire Chair in Microfinance of the Burgundy School of Business, Dijon, France during August 08-09, 2013 and presented a paper on (jointly with Dimple Tresa Abraha) on “Micro Enterprises of SHGS and Challenges to Continuity”. Also acted as a Chairman of Technical Session IV-A of the conference.
- Participated and delivered a lecture as a resource person on “Food and Nutrition Security in India” at the UGC sponsored National Seminar on ‘Challenges before Indian Economy’ organized by the Department of Economics and Commerce, Padmashri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar, Dist. Ahmednagar, Maharashtra, on August 17-18, 2013. Also delivered the address as a Chief Guest of Valedictory Function of the Seminar.
- Participated and presented a paper on “Agricultural Growth and Instability in Maharashtra: Trends and Determinants”, at the 26th National Conference of the Agricultural Economics Research Association (India), at Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, (SKUAST-K Shalimar), Srinagar, Kashmir during September 10-12, 2013.
- Participated at the 27th National Conference of the Indian Society of Agricultural Marketing (ISAM), held at University of Agricultural Sciences, Dharwad (Karnataka) during December 18-20, 2013 and presented a paper on “*Evaluation of Price Support and Market Intervention Scheme in Rajasthan*”, (co-author Shri Manish Ojha and Shri T.B. Parmar).
- Participated at the 73rd Annual Conference of the Indian Society of Agricultural Economics, held at National Academy of Agricultural Research Management (NAARM), Hyderabad on December 19, 2013



- and presented/discussed a paper on “Assessing Policy Interventions in Agribusiness and Allied Sector Credit versus Credit plus Approach for Livelihood Promotion in Maharashtra”.
- Participated at the 96th Annual Conference of Indian Economic Association (IEA), held at Meenakshi University, Kanchipuram Chennai, Tamil Nadu during December 27-29, 2013 and presented the papers on “Rainfed Agriculture in India: Issues and Challenges” and “Social Impact of Interrupted Employment: An Empirical Analysis”. Also acted as a Co-Chairman of the Technical Session III on ‘Agricultural Growth in Indian Economy: Regional Experiences and Policies’ (Chairman- Prof. G.K. Chaddha) of Conference.
 - Participated at the UGC sponsored National Seminar on “Rural Development in India: Issues and Challenges”, organized by Post-Graduate Department of Economics, Sardar Patel University, Vallabh Vidyanagar during January 3-4, 2013 and presented papers on “Rural Credit for Globalizing farmers: Credit Plus Approach” (as a key paper) and “Performance of Agriculture Sector in Gujarat: Recent Experiences (with M.N. Swain and Kalpana Kapadia). Also acted as a Chairman of Technical Session III on Agriculture Sector of Seminar.
 - Acted as an External Expert for the Post Graduate Thesis Viva-voce examination in respect of M.Sc. (Agri.) student of Department of Agricultural Economics, B. A. College of Agriculture, Anand Agricultural University, Anand on October 10, 2013.
 - On invitation, acted as one of the external experts for assessment of academic writings of Faculty member (promotion) of Institute of Rural Management, Anand, July 2013.
 - Attended the Ph. D. Viva-voce examination as a Principle Guide of Ms. Dimple Tresa Abraham, Ph.D. student registered at *Gokhale Institute of Politics and Economics (Deemed University), Pune 411004 (Maharashtra)*, on October 15, 2013.
 - Worked as a Referee and offered the comments on an article submitted for publication in *‘The Asian Journal of Agriculture and Development (AJAD)*, an internationally refereed publication of the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) in October 2013.
 - Participated in the meeting of the Expert Committee for recommendations on Minimum Support Price for Rabi crops 2013-2014, on May 6, 2013 at the Office of the Directorate of Agriculture, Govt. of Gujarat, Krishi Bhavan, Gandinagar.
 - Participated and made presentation on “Cost of Cultivation Scheme in Gujarat” before the Second meeting before High Level Committee constituted by the Government of India under the Chairmanship of Dr. Ramesh Chand, Director, National Centre for Agricultural Economics



- and Policy Research, New Delhi (with Dr. S.R. Bhaiya) on August 7, 2013.
- Participated in the Two days National Workshop under the Cost of Cultivation Scheme organized by the CS Division, Directorate of Economics and Statistics, Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India, Krishi Bhawan, New Delhi at B. C. Krishi Vishwavidalya, Mohan Pur, Nadia, West Bengal during 12.9.2013 to 13.9.2013 and presented made a presentation on the work report and administrative issues.
 - Participated and presented a paper on “Food Security in India: Issues and Challenges”, at the one day Conference on ‘Food Security in India- Issues and Suggestions for Effectiveness’ at N. S. Patel Arts College, Anand on September 28, 2013.
 - Attended 2nd Dr. Kurien Memorial lecture delivered by Professor V. S. Vyas on “Changing Counters of Rural India : Causes and Consequences” , at the second edition of the National Symposium on Rural Management, held at Institute of Rural Management, Anand during December 13 and 14, 2013.
 - Delivered the valedictory address at the National Seminar (under DRD II of UGC SAP) on “Consumer Research in Rural Areas”, organized by the Post Graduate Department of Business Administration, G.H. Patel Postgraduate Institute of Business Management (MBA Programme), Sardar Patel University, Vallabh Vidyanagar on January 25, 2014.
 - Acted as a resource person and delivered three lectures at ICSSR sponsored Orientation Programme for the Research Scholars and Faculty Members belonging to SC and the Marginalized Group under SC Component Plan, organized by the Indian Institute of Education, Pune (Maharashtra) on February 13 and 14, 2014.
 - Delivered a key note address on “Water Harvesting and Groundwater Recharge in Gujarat”, at the 44th Annual Conference of Gujarat Economic Association (GEA), organized at M. K. College of Commerce, Bharuch, Gujarat on February 15, 2014.
 - Evaluated thesis and offered Expert Comments on M. Sc. Thesis on submitted to the Department of Agricultural Economics, Anand Agriculture University, Anand, Gujarat in July 2013
 - Evaluated three M.Sc. Agricultural Economics thesis/theses received from Dr. Panjarbao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra in July 2013.
 - Evaluated four Ph.D. (Economics) thesis/theses received from University of Pune, Pune, Maharashtra.
 - Continued to work as an Honorary Director, Cost of Cultivation Scheme, AERC, SPU, VVN.



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- Continued to work as a Public Information Officer, Agro-Economic Research Centre, S.P. University, Vallabh Vidyanagar.
- Continued to work as a Public Information Officer, CCS, S.P. University, Vallabh Vidyanagar.
- Worked as a Member, Advisory Committee, H.M. Patel Memorial Lecture Series, Sardar Patel University, Vallabh Vidyanagar since November 12, 2013.
- Worked as member of Editorial Board of "International Journal of Social Science", (ISSN 2249-6637), Visva-Bharati, Shantiniketan, published from New Delhi Publishers, New Delhi
- Worked as a State/Regional Representative of the Indian Society of Agriculture Marketing for the Maharashtra State.

Dr. Mrutyunjay Swain

- Completed the Orientation Programme organized by UGC Academic Staff College, Sardar Patel University, Vallabh Vidyanagar held from 6th May 2013 to 2nd June 2013, sponsored by UGC, New Delhi with A grade.
- Participated and presented a paper on "Performance of Agriculture in Gujarat: Recent Experiences", in UGC Sponsored National Seminar on Rural Development in India: Issues and Challenges held at PG Department of Economics, S. P. University, Vallabh Vidyanagar, Gujarat on January 3 & 4, 2014.
- Participated and presented a paper on "Role of Institutional Support System in Drought Management: Evidence from Western Odisha", at 73rd Annual Conference of Indian Society of Agricultural Economics held at NAARM, Hyderabad on December 18-20, 2013.
- Participated and presented a paper on "Role of MGNREGA in Rural Transformation: Lessons and Challenges for Rural Managers" in 2nd National Symposium on Rural Management held in Institute of Rural Management Anand (IRMA) on December 13-14, 2013.
- Participated and presented a paper on "Effects of Institutional Safety nets on Households' Resilience: The Case of Drought Risk Management in Bolangir District, Odisha" at Fourth National Research Conference on Climate Change, jointly organized by CSE, New Delhi, IIT, New Delhi, IIT Madras and IISc, Bangalore, held at IIT Madras on October 26-27, 2013.
- Participated and presented a paper on "Role of MGNREGA in Promoting Food Security in Rural Rajasthan", at the Prelude Conference on Food Security in India jointly organized by Indian Institute of Public Administration, Local Branch, VV Nagar and Department of Master of Public Administration, N.S. Patel Arts College, Anand held at N.S. Patel Arts College, Anand on September 28, 2013.



- Participated and presented a paper on “Impacts of MGNREGA on Financial Inclusion in Rural Rajasthan, India” at 2nd International Workshop on Inclusive Finance held at XLRI Jamshedpur on September 13-15, 2013.
- Presented a paper on “Problems and Prospects of Oilseeds Production in Rajasthan and Gujarat”, at the Centre (Faculty Seminar Series) on 30th July 2013.

Dr. S. R. Bhaiya

- Participated at the UGC Sponsored seminar on “Rural Development in India: Issues and Challenges”, organized by P.G. Department of Economics, Sardar Patel University, Vallabh Vidyanagar, during January 3-4, 2013 and presented a paper on “An Irrigation Development for Gujarat Agriculture: Issues and Challenges”.
- Participated at 44th Annual Gujarat Economic Conference organized by M K College of Commerce Bharuch during February 14-16, 2014 and presented a paper on “An Economic Impact of Irrigation on Agriculture in Gujarat and the Constraints”.
- Participated in National Workshop on Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in India held on 12-13th September, 2013 at Bidhan Chandra Krishi Vishwavidyala (BCKV), Kalyani, Nadia, West Bengal.

Shri Manish Kant Ojha

- Presented a research paper on “Price Support and Market Intervention Scheme in Rajasthan” at 27th National Conference on Agricultural Marketing held at University of Agricultural Sciences, Dharwad, Karnataka during 18-20 December, 2013.
- Attended *UGC-Sponsored Refresher Course in Pure & Applied Economics*, during 19th May, 2014 to 8th June, 2014, organised by Academic Staff College, Sardar Patel University, Vallabh Vidyanagar-388120.

Shri Manish Makwana

- Attended one day International Symposium on “Quality of Higher Education in India and USA: A Comparative Perspective”, jointly organised by N S Patel Arts College, Anand and Indian Economic Association (IEA) under CPE UGC, on 6th January, 2014.
- Attended ICSSR Sponsored “*Orientation Course in Social Science Research for SC/ST/OBCs*” during 13-17th January, 2014, organised by Sardar Patel Institute of Economic & Social Research, Ahmedabad-380054.
- Attended *UGC-Sponsored Refresher Course in Pure & Applied Economics*, during 19th May, 2014 to 8th June, 2014, organised by Academic Staff College, Sardar Patel University, Vallabh Vidyanagar-388120.
- Presented a paper on “Marketed and Marketable Surplus of Major Food grains in Rajasthan”, at the Centre (Faculty Seminar Series) on August 21, 2013.

Ms. Kalpana Kapadia

- Participated at the UGC Sponsored National Seminar on ‘Rural Development in India: Issues and Challenges’, held at PG Department of Economics, S. P. University, Vallabh Vidyanagar on January 3 & 4, 2014 and presented a paper on “Performance of Agriculture in Gujarat: Recent Experiences” (with M. Swain and S. S. Kalamkar).

Shri Thansingh Parihar

- Presented a research paper on ‘Price Support and Market Intervention Scheme in Rajasthan’ at 27th National Conference on Agricultural Marketing” held at University of Agricultural Sciences, Dharwad, Karnataka during 18-20 Dec, 2013.

Shri Himanshu Parmar

- Participated at the Orientation Workshop on Social Science Research on September 02-06, 2013 at Gujarat Institute of Development Research (GIDR), Ahemdabad, Gujarat.
- Attended the Course on Research Methods in Labour Economics on November 18-29, 2013 at V. V. Giri National Labour Institute, Noida (UP).

Shri Deep K Patel

- Participated at the National Workshop on “Use of Technology for Marketing of Library and Information Services and e-Resources” at SVKM’s NMIMS (Deemed to be University), Dhule during 7-8th June 2013.



Farewell function of Shri V. D. Shah on June 14, 2013

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

Recognized as a Ph.D. Guide:

Dr. S.S. Kalamkar

- Gokhale Institute of Politics & Economics (Deemed University), Pune (Sub.- Economics)
- Symbiosis International University, Pune (Sub.Economics)
- Sardar Patel University, Vallabh Vidyanagar (Sub.- Economics and Management)

Dr. Mrutyunjay Swain

- Sardar Patel University, Vallabh Vidyanagar (Sub.-Economics)

Dr. S. R. Bhaiya

- Sardar Patel University, Vallabh Vidyanagar (Sub.- Economics)

Student registered:

Name	Principal Guide/ Co-guide	Student registered (No.)	Thesis submitted (No.)	Ph.D. Awarded
Dr. S.S. Kalamkar	Principal Guide	02	01	01*
	Co-guide	03	01	01
Dr. Mrutyunjay Swain	Principal Guide	-	-	-
Dr. S. R. Bhaiya	Principal Guide	-	-	-

Note: * Completed Ph.D.: Ms. Dimple Tresa Abraham, Ph.D. student registered at Gokhale Institute of Politics and Economics (Deemed University), Pune 411004 (MS)- October 2013.



RKVY data collection work January 17, 2014



REPRESENTATION IN PROFESSIONAL BODIES, FELLOWSHIP & RECOGNITION

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
- Member of the Editorial Board, Sustainable Agriculture Research, an international journal published by Canadian Center of Science and Education, Toronto.
- Honorary Guest Faculty (Economics and Business Statistics), R. N. Patel Ipcowala College of Law and Justice (An affiliated College of S.P. University), Vallabh Vidyanagar, 2013
- 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
- Life Member, Indian Society for Agricultural Economics.
- Life Member, Rajasthan Economic Association.

Shri Manish Kant Ojha

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

Shri Manish Makwana

- Life Member, Indian Economic Association
- Life Member, Indian Society for Agricultural Economics
- Life Member, Agricultural Economics Research Association (India)
- Life Member, Gujarat Economic Association

Shri Thansingh Parihar

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

Shri Deep K Patel

- Gujarat Granthalaya Seva Sangh, Ahmedabad (Life Member).
- Alumni Association, Department of Library and Information Science, SPU Vallabh Vidyanagar (Patron Member).



Dr. Sudarshan Iyengar delivering AERC Foundation Lecture July 1, 2013



DETAILS OF FIELD VISITS FOR PROJECT WORK/CCS

Dr. S. S. Kalamkar

- Conducted CCS Cluster visit on October 24, 2013 & November 26, 2013.
- Conducted CCS Cluster visit on January 10, 2014.
- Visited five villages of Khambhat taluka (Tarakpur, Mitali, Rohini, Panand, Vadgam) for pre-field survey visit on November 26, 2013.
- Conducted Cluster visit on 10.01.2014 (Cluster 17 –Mahemdabad; Cluster 12- Mahudah and Cluster 21-Sannad)
- Visited Junagarh Agricultural University, Junagarh for RKVY Project on January 30-31, 2014.
- Visited the field for the project on “Impact Evaluation of RKVY Programme in Gujarat and Rajasthan”.

Dr. Mrutyunjay Swain

- Visited the field during the household survey for the project on “Problems and Prospects of Oilseeds Production in Rajasthan and Gujarat”.
- Visited the field for the project on “Impact Evaluation of RKVY Programme in Gujarat and Rajasthan”.

Dr. S. R. Bhaiya

- Conducted a field visit in Oct, 2013 to Zone 4: Cluster 16.
- Conducted a field visit in Nov & Dec , 2013 to Zone 4 (Cluster 18,20 & 23) and Zone 8 (Cluster 14, 53, 55 & 57).
- Conducted a field visit in January 2014 to Zone 5 – Cluster 27, Zone 6- Cluster 31, 34 & 38, Zone 7- Cluster 50 .
- Conducted a field visit in Feb 2014 to Zone 2: Cluster 3 & 4, Zone 3: Cluster 10.
- Conducted a field visit in March 2014 to Zone 7: Cluster 49.

Shri Manish Kant Ojha

- Field survey conducted in selected villages of seven districts of Rajasthan for the project on “Impact Evaluation of Rashtriya Krishi Vikas Yojana.
- Visited the field for data collection for the project on “Socio Economic Impact of Check Dam in Khambhat Area of Anand district Five villages visited for field survey- Tarakpur, Mitili, Panand, Vadgaon and Rohini.
- Field survey conducted in selected villages of three selected districts of Gujarat for the study on “Adoption of Recommended doses of Fertilisers on Soil Test Basis by Farmers in Gujarat State”.



- Field survey conducted in selected villages of selected block of two districts in Gujarat for the study on “Impact of National Food Security Mission on Input use, Production, Productivity and Income in Gujarat”.

Shri Manish Makwana

- Field survey conducted in selected villages of eight districts of Gujarat for the study on “Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY) in Gujarat state” (ISEC study).
- Field survey conducted in selected five villages of Khambhat taluka for the study on “Socio-Economic impact of Checkdam in Khambhat Area of Anand District of Gujarat state”.
- Field survey conducted in selected villages of three selected districts of Gujarat for the study on “Adoption of Recommended doses of Fertilisers on Soil Test Basis by Farmers in Gujarat State”.
- Field survey conducted in selected villages of selected block of two districts in Gujarat for the study on “Impact of National Food Security Mission on Input use, Production, Productivity and Income in Gujarat”.

Ms. K. M. Kapadia

- Field survey conducted in selected five villages of Khambhat taluka for the study on “Socio-Economic impact of Checkdam in Khambhat Area of Anand District of Gujarat state”.

- Field survey conducted in selected villages of eight districts of Gujarat for the study on “Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY) in Gujarat state” (ISEC study).

Shri Thansingh Parihar

- Field survey conducted in selected villages of seven districts of Rajasthan for the project on “Impact Evaluation of Rashtriya Krishi Vikas Yojana.
- Visited the field for data collection for the project on “Socio Economic Impact of Check Dam in Khambhat Area of Anand district Five villages visited for field survey- Tarakpur, Mitili, Panand, Vadgaon and Rohini..
- Field survey conducted in selected villages of three selected districts of Gujarat for the study on “Adoption of Recommended doses of Fertilisers on Soil Test Basis by Farmers in Gujarat State”.
- Field survey conducted in selected villages of selected block of two districts in Gujarat for the study on “Impact of National Food Security Mission on Input use, Production, Productivity and Income in Gujarat”.

Shri H.P. Parmar

- Field survey conducted in selected villages of seven districts of Rajasthan for the project on “Impact Evaluation of Rashtriya Krishi Vikas Yojana.



Shri N. G. Chauhan

- Visited the field for data collection for the project on “Socio Economic Impact of Check Dam in Khambhat Area of Anand district Five villages visited for field survey- Tarakpur, Mitili, Panand, Vadgaon and Rohini..
- Field survey conducted in selected villages of three selected districts of Gujarat for the study of “Adoption of Recommended doses of Fertilisers on Soil Test Basis by Farmers in Gujarat State”.
- Field survey conducted in selected villages of selected block of two districts in Gujarat for the study of “Impact of National Food Security Mission on Input use, Production, Productivity and Income in Gujarat”.

Shri R. I. Patel

- Completed cluster visit of four tehsils namely, Muli, Chotila, Halwad, Bhuj, Mandavi from 08.04.2013 to 18.04.2013
- Completed cluster visit of two tehsils namely, Muli, Chotila, from 17/10/2013 to 22/10/2013.
- Completed cluster visit of Tehsils viz, Halwad, Bhuj, Mandavi from 21/10/2013 to 27/10/2013.
- Completed cluster visit of four tehsils namely, Muli, Chotila, jam-jodhpur, Bhanvad from 26/11/2013 to 04/12/2013.

- Completed cluster visit of the tehsils namely, Kalyanpur, Lalpur, Jamnagar, Kalawad from 17/12/2013 to 26/12/2013.
- Completed cluster visit of six tehsils namely jam-jodhpur, Bhanvad Kalyanpur Jamnagar, Lalpur Kalawad from 24/03/2014 to 05/04/2014.
- Completed cluster visit of five tehsils namely Dhodka, Sanand, Halwad, Sami, Chansma from 15/04/2014 to 25/04/2014
- Completed one day field visit of Ode village of Anand District for Sample Survey work of RKVY Project on 05/03/2014.
- Conducted primary data collection work for ‘Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY)’ during 22/01/2014 to 21/02/2014.

Shri B. P. Pandya

- Conducted cluster visit for supervision of field work in five tehsils, viz. Diyodar, Kankrej, Vav, Dhanera and Deesa during 29/04/13 to 07/05/2013.
- Conducted cluster visit for supervision of field work in five tehsils, viz. Tarapur, Khambhat, Savli, Sankheda and Pavijetpur during 03/10/2013 to 15/10/2013.
- Conducted cluster visit for supervision of field work in five tehsils, viz. Rajkot, Lodhika, and Wankaner during 21/10/2013 to 28/10/2013.



- Conducted cluster visit for supervision of field work in five tehsils, viz. Diyodar, Kankrej, Vav, Dhanera and Deesa during 03/12/2013 to 14/12/2013.
- Visited 'Krishi Mela' on December 30, 2013 at Kadodara Chokadi, Surat with selected farmers from Songadh and Valod Clusters.
- Conducted cluster visit for supervision of field work in four tehsils viz. Vallabhipur, Gadhada, Lathi and Liliya Clusters on 10/01/2014.
- One day field visit of Ode village of Anand District for Sample Survey work of RKVY Project on 05/03/2014.

Shri Hemal U. Padhiar

- Completed cluster visit of five tehsils namely, Jam Jodhpur Visavadar Junagarh Sutrapada Talala from 29/04/13 to 10/05/2013.
- Completed cluster visit of four tehsils namely, Valod Songarh, Valia Nadod from 03/10/2013 to 11/10/2013.
- Completed cluster visit of tehsils viz, Dhansura, Talod, Mehsana from 25/10/2013 to 30/10/2013.
- Completed cluster visit of two tehsils namely, Songarh, Dabhoi from 26/11/2013 to 30/11/2013.
- Completed cluster visit of the tehsils namely, Unja Mansh Hi'nagar from 05/12/2013 to 10/12/2013.
- Completed cluster visit of five tehsils namely Junagarh Visavadar Sutrapada Talala from 19/12/2013 to 28/12/2013.

- Completed cluster visit five tehsils namely Sutrapada Talala from 08/01/2014 to 11/01/2014.
- Completed cluster visit of Ode village of Anand District for Sample Survey work of RKVY Project on 05/03/2014.
- Conducted primary data collection work for 'Impact Evaluation of Rashtriya Krishi Vikas Yojana (RKVY)' during 22/01/2014 to 21/02/2014.

Shri H. P. Makwana

- Completed cluster visit of Zalod, Fatepura and Sahera of zone 3, Mahudha and Mahemdavad of zone 4 on 19/09/2013 to 29/09/2013.
- Completed cluster visit of Mahudha and Mahemdavad of zone 4 on 1/10/2013 to 4/10/2013.
- Completed cluster visits of Una, Saverkundla, Liliya, Lathi and Kukavav of zone 6 on 15/10/2013 to 25/10/2013.
- Completed cluster visit of Zalod, Fatepura and Sahera of zone 3, Mahudha and Mahemdavad of zone 4 on 20/03/2014 to 25/03/2014.
- Completed cluster visit of Vallabhipur and Bhavnagar of zone 5, Palitana and Mahuva of zone 6 and Gadhada of zone 7 on 22/04/2013 to 27/04/2013.
- Completed cluster visit of Vallabhipur and Bhavnagar of zone 5, Palitana and Mahuva of zone 6 and Gadhada of zone 7 on 02/12/2013 to 12/12/2013.

- Surprise Clusters Visit with Statistician Assistant for Four Tehsils namely, Vankaner, Halvad, Muli and Chotila Clusters on 10/01/2014.

Shri Jasawant N. Singh

- Field survey conducted in selected villages of seven districts of Rajasthan (Ganganagar, Bharatpur, Jaipur, Jaisalmer, Jhalawad, Udaipur

& Pali) and one district of Gjarat (Gandhinagar) for the project on “Impact Evaluation of Rashtriya Krishi Vikas Yojana.

- Visited the field for data collection for the project on “Socio Economic Impact of Check Dam in Khambat Area of Anand district Five villages visited for field survey- Tarakpur, Mitili, Panand, Vadgaon and Rohini.



CCS Cluster Visit - Dr. S. R. Bhaiya, Shri Gopal Machhi, Shri A. K. Mistry & Selected Farmer



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 2013-14, 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
- CAB Calling

- Down to Earth
- Economic & Political Weekly (EPW)
- Indian Journal of Agricultural Economics (IJAE)
- India Journal of Labour Economics (IJLE)
- Indian Journal of Fertilizer (IJF)
- Indian Journal of Agricultural Marketing (IJAM)
- India Today
- Journal of Rural Development
- Millennial Asia (Sage Publication)
- The Economist
- Yojana (Gujarati)

Gift:

- Agricultural Situation in India
- Krushi Govidya

Online dataset subscribed

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

Book Purchased:

The library added 82 books to its collection during April 2013 to March 2014.



Book Exhibition at the Centre: 24th & 25th December, 2013



MA Economics Students using AERC Library Facility

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.



ACADEMIC EVENTS AND VISITORS AT THE CENTRE

- AERC website (<http://www.aercspu.ac.in>) was launched on July 1, 2013 on the occasion of 52nd AERC Foundation Day Celebrations.
- **AERC Foundation Day Lecture 2013:**



Dr. Sudarshan Iyengar, Vice-Chancellor, Gujarat Vidyapeeth, Ahmedabad delivered Foundation Day Lecture 2013 on “*Agro Economic Research Centres: Need to Introduce Fresh Agenda*” on July 1, 2013.

- **Invited Guest Lecture/Talk Series:**



Dr. Tushaar Shah, Senior Fellow, International Water Management Institute (IWMI), Anand delivered the guest lecture on “*Shaping a Good Researcher: My Experience*”, at the Centre on April 17, 2013.



Dr. V.S. Vyas, Professor Emeritus, Institute of Development Studies, Jaipur and Former Member, Economic Advisory Council to the Prime Minister, GOI delivered lecture on “Shaping a Good Researcher: My Experience”, at the Centre on March 13, 2014.

- **H.M. Patel Memorial Lecture 2013:**

The H.M. Patel Memorial Lecture is instituted with the help of generous endowment grant given by Dr. Mahesh Pathak (Hon. Adviser, AERC).



The first 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.

• **Faculty Seminars (2013-2014):**

- 1) “Price Support and Market Intervention Scheme in Rajasthan”, by S.S. Kalamkar on June 26, 2013.
- 2) “Problems and Prospects of Oilseeds Production in Rajasthan and Gujarat”, by Mrutyunjay Swain, on July 30, 2013.
- 3) “Marketed and Marketable Surplus of Major Food grains in Rajasthan”, by Manish Makwana on August 21, 2013.
- 4) “Structural Transformation in India: A Review”, by T.B. Parihar and Himanshu Parmar on August 27, 2013.

- Training Workshop for the Field Staff of CCS (June 2013): Centre organized two days training programme for the Technical/Field staff of Cost of Cultivation Scheme on June 30, 2013 and July 1, 2013.

Shri T. K. Dutta, Adviser (CS Division) and Shri Chander Kant, Addl. Economic Adviser (CS), Directorate of Economics and Statistics, Dept of Agriculture and Cooperation, Ministry of Agriculture, Government of India, New Delhi were the Chief Guests of this function.



Other Visitors:

- Dr. T.N. Dutta, Deputy General Manager (Sectoral Analysis and Studies), National Dairy Development Board (NDDB), Anand, visited on May 2013.
- Shri Devendra Coumal, Assistant General Manager, Food Corporation of India, Ahmedabad visited Centre on January 18, 2014.
- Dr. Parmod Kumar, Head, Agricultural Development and Rural Transformation Centre, Institute for Social and Economic Change, Bangalore - 560072, Karnataka visited on 16/1/2014
- Dr Bhende, Adjunct Professor, Institute for Social and Economic Change, Bangalore - 560072, Karnataka visited on 30.01.2014
- Dr Elumalai Kannan- Associate Professor, Institute for Social and Economic Change, Bangalore, Karnataka visited on 16 and 31/1/2014
- Dr. K.M. George from Kerala along with 15 farmers visited our Centre on April 11, 2013.



Visit of Kerala Farmers to the Centre on April 11, 2013

MEETINGS OF THE GOVERNING BODY

A meeting of the Governing Body of the Centre was held on March 14,, 2014 in the Seminar hall of Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar.



Dr. S.S. Kalamkar greetings members of the Governing Body



AERC Governing Body Meeting dated 14.03.2014



Honorable Members of the Governing Body at the exhibition of AERC Publications

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 Ahmedabad
9) Head, PG Department of Economics, SPU, Vallabh Vidyanagar
10) Director, AERC, Vallabh Vidyanagar



RKVY Field Work

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
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 Econ., SPU	21.06.2013 to 20.06.2015
5) One member from Agril. Supervisor/ Field Supervisor <i>(rotation according to seniority)</i>	Shri R.I. Patel	21.06.2013 to 20.06.2015
6) Two members from Fieldsmen <i>(on the basis of their better work performance, in consultation with Field Supervisor and Field Officer, CCS)</i>	Shri J. D. Chauhan Shri. M. S. Parmar	21.06.2013 to 20.06.2015



CCS Cluster Surprise Visit for data check

APPOINTMENTS, RETIREMENT, RESIGNATION, ETC

Staff Name	Post	Scheme	Date
<i>Resigned</i>			
Shri H. P. Parmar	Research Fellow	AERC	31.03.2014
Shri Jayesh G. Parmar	Field Man	CCS	19.07.2013
<i>Retired</i>			
Shri V. D. Shah	Research Officer	AERC	14.06.2013



Dr. S. R. Bhaiya (Field Officer, CCS) on cluster visit



Visit to Krishi Mela by CCS Staff

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 2013-14, the following equipments/hardware/software/ office materials were purchased from the grant-in-aid received: 1 All ark make Alluminium Frame; 1 Magazine Stand, 1 Water Cooler Stand, 2 Air Condition, 1

Ahuja Awn wireless Phone, 2 Cupboard, 1 24"x80" Book display Block Board, 2 Table Frame work, 40 set Book Supporter, 1 News paper Reading Stand, 1 Inverter with four Batteries, 1 Rounded File with four tire, 1 Panasonic Cordless Phone, 1 Aluminum window work, 1 Active fire & Safety system, 1Aluminum Door work & Library Gate; 5 Education Char, 16 Visitor Chair, 2 Revolving chairs and 1Conference Table .

CCS:

During the year 2013-2014, the following equipments/hardware/software/ office materials were purchased from the grant-in-aid received: 1 Voice Recorder, 1 Water solution, 1 New Glass window, 1 Atand Rack, 1 Commercial Block Board, 1 Table Big, 1 Table Small, 50 Book Supporter, 1 Newspaper Reading Stand, 1 Storage Magazine Stand, 1 Wooden Glass Storage, 1 Digital Copier Printer, 1 Colour Scanners, 1 Sony digital LED multimedia, 1Project Triple Screen, 1 Xerox machine, Office Furniture in A/C section,1 All ark make Aluminum Frame, 1 Notice Board, 1 Magazine Stand, 1 Round file with 4 tier, 2 Air conditioners, 1 Panasonic cordless Phone, 1 Reception Table, 1 Fire & safety system, 4 Conference Table, Aluminum Door, 10 unit Ahuja Delegate unit, 5 Educational Chart, 6 Overhead Boxes, 2 Revolving Chair, 36 Visitor Chairs



AERC Staff discussing with farmers during Field Visit

AGRO-ECONOMIC RESEARCH CENTRE

Sr. No.	Name	Qualification	Designation
1	Dr. S. S. Kalamkar	M. Sc. Ag. (Agril. Eco.), Ph.D. (Agril. Eco.)	Director and Professor
2	Dr. (Mrs.) R. A. Dutta	M.A. (Econ.), MS-Agri. Eco. (Wisconsin), Ph. D. (Eco.)	Deputy Director/ Associate Professor
3	Shri V. D. Shah	M.Sc. (Statistics)	Research Officer/ Assistant Professor
4	Dr. M. Swain	M.A.(Eco.), M. Phil. (Eco.), Ph.D. (Eco.), NET (UGC)	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 D. K. Patel	B.A., B. Lib., M.A., M. Lib., M.Phil (Lib. Info.Sci.)	Res. & Ref. Asst. (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 H. P. Parmar	B. Com., M.A. (Eco.), M.Com. (Bus. Eco.), NET (UGC)	Research Fellow*
15	Shri N. G. Chauhan	B.A. (Eco.). M.A. (Eco.)	Research Fellow*

Notes: * Temporary positions.



Visit of ISEC, Bangalore Research Team to the Centre

COST OF CULTIVATION SCHEME

Staffing Pattern as on March 31, 2014

Office Staff:

Sr. No.	Name	Qualification	Designation
*	Dr. S.S. Kalamkar	M. Sc. Ag. (Agril. Econ.), Ph.D. (Agril. 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 Clerk *
10	Shri J. N. Singh	M.Com, PGDCA, B.Com.	Ad hoc Computer*
11	Shri F. G. Vahora	BCA, PGDCA, B.A.(Eco)	Ad hoc Computer*
12	Shri R. C. Mistry	BSC(Che.), DCA, MCSD, MCP, APC, CCC	Ad hoc Computer*
13	Shri M. S. Patel	BSC(Comp), PGDCA, MCA	Ad hoc Computer*
14	Miss B. S. Padhiyar	BA, PGDCA	Ad hoc Computer*
15	Shri Mihir Rana	BCA, PGDCA, PGDMM, MCA	Ad hoc Computer*
16	Shri V.C. Harijan	SSC	Peon*



ISEC Team Bangalore Research Team Field Visit -RKVY Project



COST OF CULTIVATION SCHEME STAFF

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
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



Sr. No.	Name	Designation
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 Bhunik 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
70	Shri R. S. Patel	Field Man
71	Shri A. M. 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 2013-14 is presented below. The audited utilization certificate is submitted to the granter in the first week of April, 2014.

AERC	Amount in Rs.
i) Unspent Balance as on April 1, 2014	6876.18
ii) Grant-in-aid received during 2013-14	14600000.00
iii) Other Income	107.00
Total	14606983.18
Total Expenditure during 2013-14	13818794.00
Unspent Balance as on March 31, 2014	788189.18

CCS	Amount in Rs.
i) Unspent Balance as on April 1, 2013	1214599.37
ii) Grant-in-aid received during 2013-14	41000000.00
iii) Other Income	NIL
Total	42214599.37
Total Expenditure during 2013-14	33112874.00
Unspent Balance as on March 31, 2014	9101725.37



Staff of AERC Accounts Section



CCS Staff Training Programme- June 30, 2013



AERC Staff with Hon. Members of the Governing Body, March 14, 2014



Agro-Economic Research Centre

For the states of Gujarat and Rajasthan

(Ministry of Agriculture, Govt. of India)

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