

ANNUAL REPORT

2016-17



Agro-Economic Research Centre

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

H.M. Patel Institute of Rural Development

Sardar Patel University

Vallabh Vidyanagar 388120, Anand, Gujarat



उत्तम फसल, उत्तम इनकम

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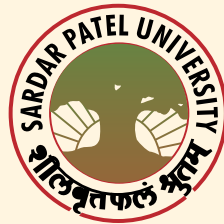
National Agriculture Market





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2016-17



AERC

Established in 1961

Agro-Economic Research Centre

For the states of Gujarat and Rajasthan

(Ministry of Agriculture & Farmers Welfare, GOI)

H.M. Patel Institute of Rural Development

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Annual Report 2016-17

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Vallabh Vidyanagar 388120, Dist. Anand, Gujarat (India)

Published by

The Director

Agro-Economic Research Centre

For the states of Gujarat and Rajasthan

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

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Dr. S.S. Kalamkar (Director) welcoming Dr Shirish Kulkarni, Hon. Vice Chancellor of our University on September 1, 2016.



Dr. S.S. Kalamkar (Director) felicitating Dr Shirish Kulkarni, Hon Vice Chancellor of University on his visit to Centre on October 18, 2016



CHAIRMAN'S STATEMENT

It gives me immense pleasure to take note of the achievements of the Agro-Economic Research Centre (AERC) for the year 2016-17. I am pleased to note that the Centre has continued the tempo of academic activities for the 55th year in succession. The Annual Report 2016-17 presents a fairly comprehensive account of the various academic activities of the Centre. It also describes the activities of the faculty members and researchers at the Centre. Right from its inception, this Centre has undertaken a number of research studies on major agriculture development programmes enjoying high national priority. This centre has, in its own modest way, strived to build bridges of understanding between ground realities and macro public policies. It has provided worthwhile feedback in the formulation of policies relating to agriculture and rural development in Gujarat and Rajasthan. Collection of high quality field data has been a widely recognized hallmark of our field research.

The year was marked by some important events such as organization of Workshop cum training in Cost of Cultivation Scheme and One day workshop on How to write a Research Paper?; AERC Foundation day Lecture 2016 by Dr. S. S. Acharya; H.M. Patel Memorial Lecture 2017 by Dr. Y. K. Alagh; installation of Hydraulic Lift at Centre; organisation of Blood Donation Camp and Trees plantation on the eve of foundation day and many other academic activities. The Centre has completed five research projects for Ministry of Agriculture and Farmers Welfare, GOI and five projects are in progress.

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 as well as office and field staff of the Centre for their excellent performance and sincere efforts in realizing the objectives of the Centre.

The main challenge faced by the Centre has been the uncertainty created by the abrupt decision of Ministry on funding to AER Centre and future of Agro Centre network. This has a serious demoralizing effect on the staff as well as work culture of the Centre. It is hoped that the Ministry of Agriculture and Farmers Welfare, GOI will ensure regular funding of this Centre on permanent basis. This Centre, I am sure, will make efforts to upgrade the quality of its research output and publications, ensure more effective communications and undertake more collaborative work.

Dr. Shirish R. Kulkarni

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



Dr. S.S. Kalamkar receiving the Dr. V.S. Vyas Best Research Report Award at the hands of Dr. Harish Padh, the then Vice Chancellor of University on July 1, 2016



Visit of Shri Alvin Murray (Senior Agriculture Coordinator (Regional), WUSC Caribbean, Canada) with Shri Vipul Chaturvedi & Others (Innovative Eco-Care pvt Ltd., Ahmedabad) to Centre on September 29, 2016



FROM THE DIRECTOR'S DESK

I am happy to present before you annual report of the Centre for the period from April 2016 to March 2017. The report serves the twin objectives of self appraisal of our performance and of sharing information about the academic activities of the Centre with our well wishers, supporters and other interested groups and individuals. A wider circulation of this document helps us in getting valuable feedback from our well-wishers and policy makers for making our studies and dialogues more relevant to the emerging needs.

I feel privileged to prepare this document and present it before you. The activities of the Centre during the year under report include both research programmes and other academic activities aimed at the dissemination of knowledge gained through research. The faculty members have participated in several academic activities. During the year under report, Centre has submitted five research study reports to the Ministry and one report to other public agency. Besides, the Centre has organized Workshop & Training to Field staff in CCS on FARMAP 2.0 Software, AERC Foundation Lecture 2016, H. M. Patel Memorial Lecture (jointly with PG Department of Economics of our University). One day workshop on 'How to write a Research Paper?' was organised for the teacher and students. The installation of hydraulic lift is a major infrastructure facility established during the year. The decision of Ministry to continue funding AERC network for one year with an assurance to review the recommendations of Review Committee is welcomed.

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

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

Dr. S.S. Kalamkar
Director & Professor



Dr. Shailja Sharma (Member Secretary, CACP, GOI), Shri Anand Krishan, (Deputy Director, CACP) and Shri Sube Singh (Assistant Director, CACP) visited the office and selected villages of Cost of Cultivation Scheme for Gujarat during November 24-26, 2016.



HIGHLIGHTS OF THE YEAR

- The faculty and the research staff members of the Centre completed five research projects and five research projects are under progress.
- Dr. S. S. Acharya, Former Chairman, Commission for Agricultural Cost and Prices, Govt. of India delivered AERC Foundation Day Lecture 2016 on “Agriculture Price Policy in India : Some Facts, Issues and Concerns” on July 1, 2016.
- Dr. V. S. Vyas Felicitation Prize for the best research report (2014-16) was awarded to AERC Report No. 153 on “Estimation of Changes in Income and Cost of Production owing to Changes in Inputs and Hybrid Seeds for Major Crops of Gujarat”, prepared by Dr, S. S. Kalamkar, Dr. M.N.Swain and Dr. S. R. Bhaiya.
- The Best Fieldman Award for the year 2015-16 was awarded to Shri H. M. Pandya, Fieldman, Cost of Cultivation Scheme of the Centre.
- Hydraulic Lift installed at H.M. Patel Institute of Rural Development by AERC and CCS was inaugurated on July 01, 2016 by Dr. Harish Padh, the then Vice Chancellor of our University.
- Blood Donation camp and Trees plantation program was organized on July 01, 2016 as a part of AERC Foundation Day Celebrations.
- Dr. Y. K. Alagh, Chancellor (Central University of Gujarat and Vice Chairman, Sardar Patel Institute of Economics & Social Research, Ahmedabad & Former Minister of Power, Planning Science and Technology, Govt. of India) delivered the 4th H.M. Patel Memorial Lecture on “Climate Change and Agriculture in Asia” on February 07, 2017.
- Dr. Shailja Sharma (Member Secretary, CACP), Shri Anand Krishan, (Deputy Director) and Shri Sube Singh (Assistant Director), a team from Commission for Agricultural Cost and Prices, Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, GOI visited the Centre during November 24-26, 2016 to deliberate in detail on the process of data collection under the CCS scheme.
- Prof. Alvin Murray, Senior Agriculture Coordinator (Regional), WUSC Caribbean, Canada) with Shri Vipul Chaturvedi (Innovative Eco-Care Pvt Ltd., Ahmedabad) visited the Centre on September 29, 2016.
- One day workshop on ‘How to write a Research Paper?’ was Jointly organized with Gujarat Economic Association on December 12, 2016.
- Dr. D. K. Grover, Director, AERC, Punjab Agricultural University, Ludhiana visited the Centre on September 22, 2016.
- Mr. N. K. Kathad, Joint Director of Agriculture (AC) and Shri P. N. Patel Asstt. Director of Agriculture, Directorate of Agriculture, Krishi Bhavan, Gandhinagar visited the Centre on 17.06.2016 and discussed the procedure adopted for implementation of cost of cultivation scheme in Gujarat.
- Students of B. N. Patel Polytechnic College, Vallabh Vidyanagar visited Solar Power System in our Centre.
- The faculty members published many research papers/articles as well as participated in many seminars, conferences, workshops and training programmes.
- Submitted the Cost of Cultivation Data for the year 2015-16 to the CS Division on data entry in new data entry software FARMAP 2.0 at the Centre during regular interval.



Glimpses of visit of Dr Shirish Kulkarni, Hon Vice Chancellor of University to Centre on October 18, 2016

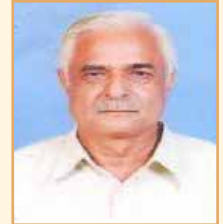
ABOUT THE GOVERNING BODY

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

Composition of the Governing Body

(as on March 31, 2017)

- **Dr. Shirish R. Kulkarni**
Vice Chancellor,
Sardar Patel University,
Vallabh Vidyanagar -388120, Anand, Gujarat.
- **Shri S. K. Mukherjee**
Sr. Economic and Statistical Adviser
Directorate of Economics & Statistics,
Department of Agriculture and Cooperation,
Ministry of Agriculture and Farmers Welfare, Government of India,
Krishi Bhavan, New Delhi -110 001.
- **Dr. V. S. Vyas**
Professor Emeritus,
Institute of Development Studies, Jaipur, Rajasthan;
Former Member, Economic Advisory Council to the Prime Minister.
- **Dr. Y. K. Alagh**
Professor Emeritus,
Sardar Patel Institute of Economic and Social Research, Ahmedabad, 380 054;
& Chancellor, Central University of Gujarat,
Gandhinagar.
- **Dr. Amrita Patel**
Former Chairman, National Dairy Development Board, Anand &
Chairman, Charutar Arogya Mandal
Gokal Nagar, Karamsad – 388 325,
Anand, Gujarat.
- **Shri Sanjay Prasad**
Principal Secretary,
Department of Agriculture and Cooperation,
Government of Gujarat, New Sachivalaya,
Gandhinagar – 382010, Gujarat.



- **Mrs. Neel Kamal Darbari**
Principal Secretary,
Department of Agriculture,
Government of Rajasthan,
Sachivalaya, Jaipur 302 005, Rajasthan.
- **Dr. Tushaar Shah**
International Water Management Institute (IWMI),
C/o Indian Natural Resources Economics and Management (INREM) Foundation,
Behind IRMA Mangalpura,
Anand 388 001, Gujarat, India.
- **Dr. Sudarshan Iyengar**
Former Vice Chancellor,
Gujarat Vidyapith,
Ahmedabad - 380 014, Gujarat.
- **Dr. S. S. Acharya**
Professor Emeritus,
Institute of Development Studies, Jaipur (Rajasthan) &
Former Chairman, Commission for Agriculture,
Cost and Prices (CACP), Govt. of India.
- **Dr. H. P. Trivedi**
Professor and Head,
Post Graduate Department of Economics,
Sardar Patel University,
Vallabh Vidyanagar 388 120, Anand, Gujarat.
- **Dr. Mahesh Pathak**
Honorary Advisor,
Agro-Economic Research Centre,
Sardar Patel University,
Vallabh Vidyanagar 388 120, Anand, Gujarat.
- **Dr. S.S. Kalamkar**
Director & Professor,
Agro-Economic Research Centre,
Sardar Patel University,
Vallabh Vidyanagar 388 120, Anand, Gujarat.





ABOUT THE CENTRE

The Agro-Economic Research Centre (AERC) for the states of Gujarat and Rajasthan was established in July 1961 at the Sardar Patel University, Vallabh Vidyanagar by the Directorate of Economics and Statistics, Ministry of Agriculture, Government of India, New Delhi. It was late Shri H.M. Patel (ICS ret'd.) who not only provided the vision for establishing such an Institute but also ensured the much needed support and encouragement for its growth at Vallabh Vidyanagar. Though AERC is a part of University, it has been enjoying autonomy status in its working. The Centre has completed 55 glorious years (1961-2016) 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 165 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 improvement in every aspect of research including methodological base of the studies. The studies have come out with useful

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

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



COST OF CULTIVATION SCHEME

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

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

The data base generated through the “Comprehensive Scheme for Studying Cost of Cultivation of Principal

Crops” is used not only for the primary purpose of providing cost estimates for determination of Minimum Support Prices (MSP) but for a wide variety of other important purposes like ‘Compilation of National Accounts Statistics’, Wholesale Price Indices (WPI) and research studies relating to cost of cultivation and farm income.

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

TEACHING/ACADEMIC STAFF / FACULTY MEMBERS

(A) AERC

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

(B) CCS

Dr. S.R. Bhaiya (foccsgui@gmail.com)	Field Officer	M.A. (Eco.), M. Phil. (Eco.), Ph.D. (Eco.)	Agricultural Economics, Cost of Cultivation, Research Methodology
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Meeting with Dr. D. K. Grover (Director, AERC, PAU, Ludhiana) at Centre on September 22, 2016



*Dr. D. K. Grover, Director, AERC, Punjab Agricultural University, Ludhiana
visited Our Centre on September 22, 2016.*



PROJECTS COMPLETED

(i) Title of the Project	: Impact Assessment and Evaluation of Ration Balancing Program in Gujarat
Principal Investigator	: S. S. Kalamkar, H. Sharma & V. K. Boyal
Sponsored By	: Project sanctioned by National Dairy Development Board (NDDB), Anand to National Dairy Research Institute, Karnal (Haryana) covering the states of Punjab and Gujarat–AERC, VVN worked as partner institution with NDRI, Karnal
Coordinating Centre	: Division of Dairy Economics, Statistics & Management, National Dairy Research Institute, Karnal (Haryana), India
Date of Commencement	: May 2015
Date of Submission	: December 2016

Summary:

The present study was undertaken in Gujarat to evaluate the efficacy of RBP in increasing milk yield and/or reducing feed cost. The study is based on both, the secondary and primary level data. The secondary data pertain to the details of statewide milk production, NDP-I program, selected EIA and animal covered, selected villages, etc. were compiled from the published sources, NDDB and other websites. The primary data were collected from the total sample of 200 beneficiaries, 200 non-beneficiaries and 20 LRPs from 20 selected villages from two districts unions (Banaskantha and Surat) of Gujarat. Four types of survey schedules were canvassed in the study area.

The National Dairy Development Board (NDDB) has developed the software, Information Network for Animal Productivity and Health (INAPH), which formulate least cost balanced ration. The objective of NDDB's RBP is to produce an optimum quantity of milk at the least cost from milch animals by readjusting, wherever required, the proportion of locally available dietary feed ingredients, so as to provide them adequate amounts of proteins, minerals, vitamins as well as energy. NDDB developed user-friendly software for ration balancing is used by dedicated local resource persons (LRPs). The LRP is trained by the implementing agency to

effectively use the software in the local language and involves the following steps: (a) assessing nutrient status of animals; (b) assessing chemical composition of locally available feed resources; (c) assessing nutrient requirement of animals; (d) formulating least cost balanced ration using locally available resources. The LRP revisits the milk producer according to his/her requirement and keeps a record of the various observations related to the quality and quantity of milk, including the cost of milk production before and after implementation of the RBP and increase in the net daily income per animal. For this purpose, implementing agencies provide the necessary facilities such as a personal digital assistant/ netbook loaded with NDDB's RBP software, a weighing balance, measuring tape and ear tags with applicators, to the LRP. The LRP functions in a dedicated manner to implement the RBP in a village and provides services to the farmers.

Major Findings from Field Survey:

- More than 92 percent of beneficiaries were aware about the programme, while corresponding figure for the non beneficiary household was about 51 percent. The major source of information about the programme for more than 75 percent of beneficiary household was LRP itself, followed by the dairy cooperative society and other sources



such as friends, progressive farmer in village and relatives. About same number of beneficiary households had seen documentary on RBP.

- Around two third of the beneficiary households mentioned that they had seen poster/banner on RBP, while one third of non beneficiary households got exposure to programme through the same. Though the pamphlets were also distributed about the programme, about two third of beneficiary households and one fifth non beneficiary households had received the same source.
- The village awareness programme was attended by the 67 percent of beneficiary and 42 per cent of non beneficiary households. The pattern was found same in both the selected districts.
- About one third of the selected beneficiary households were not aware about ration balancing before adopting RBP. On an average, total nine advisory/recommendations were received till date by the beneficiary households in Surat whereas same figure was higher side in Banaskantha district having about 14 recommendations. More than 77 percent of beneficiary households from both districts opined that benefits of RBP has increased their interest in dairy and would like increase the herd strength.
- The success of RBP can be seen from the fact that more than 88 percent of farmers were following the recommended ration advisory given by LRP, while more than 80 percent household felt that they are in programme.
- Though most of beneficiary households followed the advice given by the LRP, some of them had faced the constraints in regular feeding of recommended ration such as shortage of mineral mixture, frequent change in feed items, LRP do not visit timely and they are not convinced about the recommendations. More than 88 per cent of respondents had mentioned that they would recommend the other dairy farmers also to join the RBP and rank programme with 8.5 points (out of 10).
- The changes realized by the RBP adopted in various parameters indicate that more than 78 per cent of beneficiary households opined that milk production has increased by around 15 percent after adoption of RBP, i.e. about 1.5 litre/day. Not only milk production was increased, the composition of milk was also improved. More than 79 per cent households has realized that on an average milk fat and SNF level has increased before adopting the programme. Most of the households have also reported that health of animals is also improved after adoption of RBP. Decrease in digestive disorders of animals after adoption of RBP was experienced by selected sample households. By following the recommended ration given by the LRP under programme, more than half of the selected households have realized reduction in feed cost while feed cost was increased in case of one fourth households and same was unchanged in case of remaining households. Though one fourth of households mentioned that additional expenditure (money/labour) is involved in adopting RBP while three fourth of selected households mentioned that no change in employment opportunity was experienced after RBP.
- More than 73 per cent of households realized that monthly income from dairy has increased after adoption of RBP while about 78 percent households mentioned that their savings from dairy have increased which was utilized for education, nutrition and health as well as for expanding the dairy business. Despite of all benefits discussed above, actual consumption of milk in household did not increase significantly as expected.
- Besides improvement in the health and digestive system of animals, the respondents have mentioned the other benefits as well. Around two third of the selected household mentioned



- that after adoption of RBP, rate of conception has increased which had resulted into reduction in average number of artificial inseminations to half from 2.57 to 1.20. The reduction in service period was noted by more than 63 per cent of households (from 4.4 to 2.98) while more than 66 per cent of households observed improvement in lactation length (from 10.4 to 11.7). Almost half of the respondents experienced reduction in inter-calving period and repeat breeding. The adoption of RBP advisory has helped in controlling the diseases such as prolapsed of uterus as well as anestrus.
- The few suggestions were given by the selected households for the improvement of RBP and its benefits such as regular supply of nutrient and feed, regular health check up of animal health, regular visit and availability of veterinary doctor at village level, need to have subsidy on animal feed and concentrates, and LRP should work seriously.
 - More than 80 per cent of households had received brief on RBP from selected LRP, while more than 89 per cent households had kept advice slip and was displayed properly. More than 90 per cent of selected households mentioned that LRP is visiting/contacting them (sometime/always) over phone to follow up the advisory given by him, while most of households themselves contacted the LRP for ration re-formulation when there was a change in feed items. Some households have used same advisory to feed the animals not covered under RBP.
 - On an average, out of 10 points, 8.3 performance points were given to LRP by the selected respondents indicating better working of LRP in selected areas of Surat and Banaskantha. About two third of respondents mentioned their willingness to pay/like to adopt RB advisory on payment basis after the end of programme, while about one fifth of households refused to pay or mentioned unwillingness to adopt the RBP after the end of the programme on payment basis.
 - After implementation of RBP in selected coverage area of Union, there was increase in milk procurement, number of DCS as well as pourer members, milk fat, daily milk yield as well as conception rate in both the selected district unions. Though other parameters also recorded positive growth after RBP, but less number of veterinary visits is a matter of concern.
 - The selected unions had given incentives to selected LRP on the basis of enrolment of animals and subsequent delivery of advisory to selected household. Besides, promoting LRP, Milk Unions had organized Village Awareness Programme (VAP) in selected villages. In order to have proper monitoring of progress of programme, monthly LRP meeting was conducted to solve the problems through discussion (hardware, software and net connectivity queries).
 - Milk unions had put suitable mechanism in place to ensure sustainability of the programme, such as commission on sale of Mineral Mixture was provided to LRP @Rs 5/kg to LRP. The Unions also mentioned their willingness to continue the programme after completion of its period by providing the commission to LRP on the sale of mineral mixture, concentrates, etc.
 - Though at overall level, the programme has registered the positive growth, Milk Union have faced the constraints while implementing the RBP, such as due to less stipend proper selection of LRP is a tedious task as well as continuation of same person is also overwhelming, there is internet connectivity problem at field level may be due to improper internet service provider selection at that place, and laptop battery problem. The selected unions did not face financial problem so far in implementation of this programme.
 - The important factor for success of program is amount paid as remuneration to LRP and they may continue working as LRP if paid remunerative commission on work assigned.



- (ii) Title of the Project : **Farmers Suicides in Gujarat**
Principal Investigator : S. S. Kalamkar, M. Swain & T. Parihar
Sponsored By : Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India
Coordinating Centre : Agricultural Development and Rural Transformation Centre, Institute for Social & Economic Change, Bengaluru
Date of Commencement : December 2015
Date of Submission : February 2017

Summary:

Farmer suicide has turned out to be a major socio-economic concern in India that has resulted in profound implications on the quality of life of farmers. As per NCRB (2015) a total of 5,650 farmers have committed suicides during 2014, accounting for 4.3 per cent of total suicides victims in the country, of which 5,178 were male farmers and 472 were female farmers. The prominent causes recognized for farmers suicides were bankruptcy or indebtedness (20.6 per cent), family problems (20.1 per cent), failure of crops (16.8 per cent), illness (13.2 per cent) and drug abuse/alcoholic addiction (4.9 per cent). The main consequence of agrarian distress has been that marginal and small farmers who find it increasingly hard to sustain on farming, are either getting pushed out from agriculture or committing suicide. According to report, the land holding status of the farmers who committed suicide revealed that 44.5 per cent and 27.9 per cent of victims were small farmers and marginal farmers, respectively and that put together accounted for 72.4 per cent of total farmer suicides. Therefore, there was an urgent need to study the farmer's suicide.

The present study attempted to analyze the incidence and spread of farmer suicides in Gujarat state. The study is based on both primary and secondary data. The secondary data were collected from the different published sources. The primary data were confine exclusively to those victim farmers households who were cultivating either their own land or on lease basis - at the time of survey. The selection of sample of victim farmers' households in Gujarat state for

primary data was as per the numbers of suicides given in 2014 publication of NCRB. During 2014, there were 45 numbers of suicides belonging to farming community and primary data were collected from the selected 30 victim farmer households in Gujarat.

Gujarat has historically been known for business acumen of its people. Gujarat state has made rapid strides in its agriculture sector including the agribusiness sub sector during the recent past. Despite of high rate of growth during the last decade, National Crime Records Bureau has recorded total 45 cases of suicide of farmers in the state of Gujarat during the year 2014. Out of total number of suicides, 68.89 per cent were male farmers and 31.11 were female farmers. As per land holding size category of farmers, 66.67 per cent were from medium size category, followed by small (17.78 per cent), large (8.89 per cent) and remaining from marginal category (6.67 per cent). The prominent causes recognized for farmers' suicides in Gujarat were other/not known (62.22 per cent), followed by illness (15.55 per cent), marriage related problems (8.89 per cent), farming related problems (6.67 per cent), family related problems (4.44 per cent) and drug abuse/alcoholic addiction (2.22 per cent).

Farmer Suicides in Gujarat have come under the scanner after comments by opposition party leaders in the recent past. They have attacked the Gujarat model of development by pointing at the high number of farmer suicides in Gujarat. The district-wise data shows that epidemic of farmers suicides during the year 2014 was recorded in Devbhoomi Dwarka district covering about 45 percent of total



suicides in the state, followed by Panchmahal district (about 22%) and Porbandar (almost 12%). These three districts together accounted for about 79 per cent of total number of suicides in the state. The remaining suicide cases were recorded in Amreli, Bhavnagar, Surat and Surendranagar districts. The numbers of suicides were not specific to any particular month and were spread across the year. No compensation scheme for farmers those who commit suicide. However, only victim family in Surendranagar district had received compensation of Rs. 1 lakh through Agricultural Produce Marketing Committee of Rajkot district where victim farmer had committed the suicide.

Major Findings from Field Survey data:

- About 90 percent of victims were male farmers while 10 per cent were female farmers. Around 83 percent victims were from other backward classes, around 13 percent were from open category while remaining were from SC category. Majority of the victim were from Hindu religion.
- The highest numbers of suicides (70%) were recorded in age group of 30-60 years while remaining were from age group up to 30 years. In case of 70 percent of households, victim was a main earner.
- Almost 83 percent of victims were literate and around 80 percent were married with arrange marriage system within their relatives.
- Two third of total number of victims had consumed poison to commit suicide, while about one sixth of victim hanged themselves. Remaining victims adopted the other method of suicide such as jumping into river/well (6.67 per cent), self immolation /burning (6.67 per cent) and accident by slipping on railway track (3.33 per cent).
- The house and farm were the main places where victim had committed suicides (47 per cent each), while in one case each; it was reported in operational area of APMC in Rajkot and on railway track.
- The existing households size was 5.1 members and 70 per cent of households estimated to be dependent on agriculture as a main occupation. Around 70 per cent of households were as joint family while remaining where nuclear family.
- The highest number of farmers who had committed suicides were from medium size land holding group having land holding between 2-4 ha (33 per cent) followed by marginal and small size land holding group of farmers (about 27 per cent each). Marginal and small land holdings size group put together accounts for 53 per cent of total number of suicides and the lowest proportion of suicide was recorded in large land holding size group. Thus, as expected, marginal and small farm category group found to be vulnerable to this kind of situation.
- The selected households have relative large land holding of 5.9 acre, of which 44 per cent of land was irrigated having cropping intensity of 109 per cent and irrigation intensity of 119 per cent.
- About 60 percent of victim households have open well as main source of irrigation, followed by 24.11 percent of households have tube well/bore well, while remaining of 16.12 percent households used canal water for irrigation purpose. Thus, groundwater source was main source available with the sample household to irrigate the crops.
- The consumption expenditure of selected households was higher than the annual income (from all sources) in all three consecutive years (2013-14 to 2015-16). It means that income from the all sources was not adequate to meet the required expenditure of family that to particular income from main source was not adequate. In fact, the highest deficit of income (% of expenditure on income) was recorded during 2014-15.
- Groundnut and cotton were the major crops grown in kharif season, followed by jowar crop which was cultivated for fodder purpose by some of the households. The productivity level of

groundnut realized by the victim household was very low (1.49 qt/acre) and thus income received from sale of groundnut was much lower than its cost of cultivation/production. On an average Rs. 30113 per household loss has been reported in groundnut cultivation in 2015-16. Same the case of cotton crop cultivation in which selected households had to suffer with loss of Rs. 12426 per hh.

- The negative returns have been reported in case of production of groundnut and cotton crops during 2015-16. So the case may be earlier two years as cropping patterns was almost same during 2013-14 and 2014-15. Thus, may be due to low yield of major two crops, the income from the crop cultivation had dropped, which must have put stress on the victim and households to manage the expenditure with short of income.
- Selected victim households had taken significant amount of loan from informal sources such as relatives and friends, agriculture input shop, of which loan from relatives and friends earlier was used for both farming and non farming purpose, while loan taken from agro shop owner was used for only farming purpose. Besides, loan was also taken by selected victim households from trader and commission agents to fulfill non farming/domestic requirements.
- Besides having loan from informal sources, few selected households had taken loan from formal sources also such as cooperative society/bank and commercial banks. As compared to the amount borrowed from non-formal sources (between Rs. 1-3 lakh), it was around 0.5 lakh in case of formal sources. Thus, inability of payment of loan taken from the informal sources must have put pressure on victim and its family which must have forced the victim to commit suicide.
- About 93 per cent of the households/ respondents have mentioned that victim was mixing with everyone and his/her behavior was proper. No difference in behavior and approach of victim was noticed by anyone around him/her. While remaining households had noticed some change in behavior of victim as he/she was not mixing/ mingling with them. About 70 per cent of households reported that victim was taking food properly, while 30 percent households observed that victim was not eager to have food. On enquiry, it was observed that none of victim had tried to commit suicide earlier and thus there was no failure attempt recorded.
- None of the household had any dispute on property related issues. In case of marriage related issues such as dowry related issues, extra marital affairs, wife went with somebody and got married with that person, and wife expired by suicide five year ago, shocked by that, heavy burden of family), one case was reported under each above cause. The family problems/commitments (such as daughter's marriage, social functions, son's marriage, frequent quarrel among the family members, more and more responsibility on single person and his son suicide earlier; that is why he depressed) were also reported as main cause of suicide.
- The highest numbers of suicides were recorded due to acute economic crises/sudden fall in social status which accounts for 37 per cent of total suicides followed by suicides due to illness (27 percent), depression (27 per cent), fall in social reputation (17 per cent), drug abuse/alcoholic addiction (13 per cent). The family problems, inter-personal disagreement/fight on some issue and marriage related issues have also contributed in pushing the victim towards such drastic step of ending the life.
- Majority of households have reported that the farming related problems such as high cost of production (repeated sowing; poor germination, high labour charges); crop failure (due to lack of access to irrigation water and pests diseases; failure of rainfall/drought; land submerge); high expectations of output and prices, high cost of bt cotton seed, inability to sell output, etc were major causes of suicides.
- During the last three years, due to low income, selected farmers household who had taken loan



for crop production, purchase of farm equipments could not reply in time loan taken. Also some households had taken loan from non institutional sources. Thus, on non repayment of loan amount in time, victim households had faced pressure from these both agencies.

- The ranking of causes indicate that majority of households top ranked to cause of failure of crop/s followed by indebtedness (institutional & non-institutional) and illness.
- About 43 per cent of households faced the severe crisis as no earning member was with family which must have put family member/s under

depression. In case of 33 percent households, agricultural activities had stopped while insecurity in the family was felt by 30 per cent households. In case of 27 per cent households, schooling of the children got stopped. Besides, other impacts were that the family member/s felt seriously ill, family had to postpone their son/daughter's marriage, and forced them to sell land and livestock.

- The respondents were asked to give suggestion to avert suicides in future. Few respondents had given suggestions such as government should help in drought years, complete prohibition on drunkenness in village, and medical facilities should be provided at village level.

(iii) Title of the Project	: Working of Pressurized Irrigation Network Systems (PINS) in Gujarat
Principal Investigator	: M. Swain, S. S. Kalamkar & K. Kapadia
Sponsored By	: Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India
Coordinating Centre	: AERC, Vallabh Vidyanagar
Date of Commencement	: December 2015
Date of Submission	: March 2017

Summary:

This study was undertaken to analyze the various PINS programs implemented in selected districts of Gujarat. For the study, the data were collected from three selected districts, viz., Mehesana, Patan and Gandhinagar. PINS were selected from both surface irrigation command areas (mainly canal) and groundwater irrigation command areas (mainly tube well). The beneficiary households (households having access to irrigation water in Government PINS Command area) were selected. About 200 beneficiary and 100 non-beneficiary households were covered for the detailed study.

- Gujarat State has been one of the front runners among states in India in promoting PINS. In fact, the concept of Pressurized Irrigation Network System (PINS) was developed at Design Office of Sardar Sarovar Narmada Nigam Limited (SSNNL) with the necessity of introduction of MIS in the command area of SSP. The Government of Gujarat

has put in lots of efforts to replace conventional irrigation by micro irrigation so as to improve water use efficiency and to increase area under irrigation in the state. With the pilot project on Pressurized Irrigation Network System (PINS), about 25 pilot projects were initiated in the state covering 1029 farmers with 1491.6 ha of CCA and estimated budget of Rs 1306.3 lakh.

- It is worth mentioning that both water savings and energy savings are estimated to be higher in case of tube well PINS with drip compared to tube well with flood irrigation or surface with flood irrigation. Water savings by use of MIS with PINS is realized to the tune of 50 to 75%, whereas the energy savings by the same is realized to the tune of 25 to 76 per cent.
- Though the Government of Gujarat followed a proactive approach to increase the adoption of PINS by the water users, the existing practices of farmers such as relying more on conventional

flow method for irrigation did not change much due to various reasons. The farmers did not want to change the cropping pattern which was highly water intensive. They did not want to spend anything on MIS since canal water was available to them almost free of cost. There were no much strict rules and regulations enforced to check the illegal use of canal water and water theft. Unavailability of necessary power network, insufficient power availability in agri-mains and higher costs estimated provided by the MIS suppliers were some of the reasons.

- Looking at the bad experience of Canal PINS in the state, an attempt was made by the Irrigation Department in devising a suitable solution to address various issues. The combination of UGPLs and PINS replacing Minors, Sub-Minors and FCs has also been put in some places in the state. So far, the UGPL work has been completed in 2.58 lakh ha of 5441 Chaks in 61 talukas of the state. Additionally, the UGPL work is in progress in about 3.06 lakh ha covering a total length of pipelines of 88.84 lakh metres in 7164 Chaks which is a record in the history of Irrigation Infrastructure Development in India.
- The major benefits of UGPL system are the land saving and water saving (up to 10-20 %), less implementation period, feasibility even in flood zone / undulating area, avoidance of land fragmentation, integrating field channels with the sub-minors and less O & M expenditure. Moreover, there are some issues in implementation of UGPL in sub-minors. Farmers were not willing to pay 10%, their contribution, which was later on reduced to 2.5%.
- Among three types of water sources, tube well is the major source of water for successful PINS operation in the Gujarat state. The Government of Gujarat introduced the policy of pressurized irrigation system in the command area of public tube wells under Gujarat Water Resources Development Corporation (GWRDC). As per the Government norms, Micro Irrigation System (MIS) provided in the command area of 309 tube

wells covering 1452 ha in five districts of the state i.e. Banaskantha, Mehsana, Patan, Gandhinagar and Sabarkantha. The State Government has decided in March 2013 to provide MIS in Government tube wells at 100% Government cost in total nine districts.

- Under each Tube well PINS, on an average, 09 farmers were covered beneficiaries were covered under each Tube well Water Users Association (TUA) with average area of 11 ha per TUA. The Tube well PINS have been well adopted in Gujarat and has a wide coverage. As revealed from focused group discussion with the farmers, the higher maintenance cost and energy cost has discouraged the farmers in increasing its further adoption.
- Promoting MIS was the main purpose of installing PINS in the selected water scarce districts of the Gujarat state. About 95.3 per cent of sample beneficiary farmers adopted drip whereas the 10 per cent of them adopted sprinkler in the state. Since the sprinkler system is not very water saving MIS compared to drip system, the same has not been very popular in the state.
- The major motivating factors for the beneficiary farmers for adoption of PINS-MIS were to get assured amount of water for irrigation (79.3%), better and stable crop yield and farm income (78.0%), saving more water and to cover more area under irrigation (67.3%), facilitating judicious or efficient distribution of water among the water users (54.7%) and avoiding unnecessary conflicts with other farmers (28.7%).
- The water saving due to judicious use of water (94.0%), increase in agricultural income (86.7%), getting water in right time (88.0%), proper distribution of water among farmers (62.7%), getting more information on how to use water judiciously (56.7%), electricity saving (54.0%)



and improved maintenance of the system (26.7%) were the major benefits accrued by the beneficiary water users/farmers.

- The proportion of area under more remunerative Rabi crops was also found to be higher (28.7% of GCA) in case of beneficiary farmers as compared to non-beneficiary farmers. It was observed that, except few crops like groundnut, mung and cumin, beneficiary farmers had enjoyed better crop yields as compared to non-beneficiary farmers. The percentage change in yield under drip over flood and change in yield under sprinkler over flood has been spectacular with respect to some crops like cotton (74.4% and 33.1%, respectively), castor (117.6% and 102.1%, respectively), other kharif oilseeds (126.5%), kharif vegetables (269.2%), and also overall kharif crops (by 307.5% and 31.3%, respectively). Among Rabi crops, major benefits were observed in the case of wheat (by 83.3% and 108.4%, respectively), fennel (55.1%), total spices (76.6%), total vegetables (58.7%), fodder crops (144.0%) and overall rabi crops (by 235.7%).
- Among various other benefits, reduction in fertiliser use (84.7%), reduction in weeding cost (88.0%), reduction in labour use (89.3%), cultivated land saved due to less need to construct field channels (42.7%), Less water logging or water salinity (59.3%) and Less pest attack/Reduced use of pesticides (52.7%) were the major socio-economic and environmental benefits accrued by the farmers due to adoption of PINS-MIS.
- The major suggestions provided by the farmers were to impart training to farmers on need, importance and use of MIS with PINS, provide better quality components of MIS so as to reduce the damages caused by rodents (squirrels, rats etc) and insects etc., need to promote fertigation and chemigation, need to take measures to regulate agencies supplying MIS to the farmers and adhering to standard norms on maintaining quality and providing proper and regular services for the repairing of the MIS subsystem within reasonable time limits, need to have more testing facilities for quality checking of equipments, need to provide the required extension advisory services to the farmers, especially on maintenance and applicability of PINS-MIS for different crops.
- Some of the major concerns and suggestions expressed by the non-beneficiary farmers have been also been analysed. Some of their agricultural areas are located very far from command area. Due to scarcity of irrigation water, they depend only on rain water. Thus they demand to increase coverage of PINS to their area. In some cases, due to less land and monetary problems, they didn't want to install drip in their farm, and they used to irrigate by flood method.
- Among three types of WUAs, the average life span UGPL system is highest of about 50 years followed by Pvt. tube well (TW) PINS of 20 years and Govt TW PINS of about 19 years. Though there was 25 canal PINS implemented in Gujarat state, none of them were found functional. The average area covered under each PINS WUA was 19.2 ha per Pvt. TW PINS, 22.2 ha under Govt. TW PINS and 34.6 ha per UGPL.
- The total expenditure on Tubewell PINS was Rs 2.64 lakhs whereas the expenditure on MIS component was Rs9.87 for all beneficiaries under a single TUA. The per beneficiary expenses on MIS in a TUA was Rs 1.3 lakh on an average, which includes all components of MIS such as drip, sprinkler and all necessary accessories and pipes. As far as annual operation and maintenance cost is concerned, the major component of operation and maintenance cost on PINS was electricity charges and repairing/maintenance of tube well/canal pins, accounting for about 54 per cent and 45 per cent of total operation and maintenance cost, respectively.
- Some of the specific activities undertaken by different types of PINS WUA/TUAs have been discussed. Among the major activities, Operation & Maintenance of PINS Project, Deciding the timing of water release, judicious water distribution, Collection of water rates, Collection



of per capita operation and maintenance cost were the major activities of Govt. TUAs. However, in case of pvt. TUAs, the operation & maintenance of PINS project and dispute settlements were found to be the major activities. In the case of UGPL, operation & maintenance of PINS project and collection of water rates were found to be the major activities.

- The main source of income for these TUAs were annual maintenance fees collected whereas the major heads of expenditures were the Expenditure on electricity bill, repairing expenses, salary expenses. Besides, in case of PINS, the charges to Irrigation Department and some miscellaneous expenses were incurred by the WUA/TUAs.
- The major benefits provided by the WUAs to its members were arrival of water in time, proper distribution of water among farmers, more information on how to use water judiciously, saving of water, electricity and labour cost, improved maintenance of the system and less conflicts around water.
- WUAs/TUAs also faced some constraints in management of their associations. Among these constraints, the funds constraints, unavailability of required quantity of water, unavailability of proper maintenance and repairing services and electricity problems are the major ones.
- The trend analysis of the problems faced by the WUAs under different set up has been studied. It was found that the situation has improved a lot in case of Govt. Tube wells PINS such as Inter and Intra village conflicts, labour shortage issues and salinity problem. In case of Pvt. Tube well PINS, the crop yield has improved a lot. In case of UGPL, crop yield has improved but water logging problems have increased.
- The water resources for irrigating more area have been a challenge for the country. It is desirable to utilize the available water resources more judiciously, so that the 'more crops per drop' slogan of the Govt. can be realized and farmers income can be doubled within stipulated time

period. Thus, PINS infrastructure with MIS is inevitable for farmers since it saves water and collected water can be used for further increase in irrigation.

- However, MIS exclusively based on surface water sources seems to be less convincing. The MIS based on surface water resources integrated with ground-water source may result in to manifold benefits. Up-coming irrigation facilities should thus facilitate both systems (conventional & MIS).
- Though the State Government has followed an innovative approach by developing and implementing the concept of PINS, the existing practices of farmers such as relying more on conventional flow method for irrigation did not change much due to various reasons. The farmers did not want to change the cropping pattern which was highly water intensive. Thus, it is necessary to discourage more water consuming cropping pattern, by encouraging suitable cropping pattern through some incentive structure.
- It was found that the farmers did not want to spend anything on MIS since canal water was available to them almost free of cost. Thus, it is suggested to revise the water rate which is very less and strict rules and regulations should be enforced to check the illegal use of canal water and water theft.
- Farmers having land at favourable locations (canal vicinity) do not find it to be a lucrative proposition. One of the major factors that contributed to less adoption of canal PINS in the state was that, PINS Projects were located very close to minors or sub minors, from where farmers are able to get water in alternative ways. Thus, it is suggested to re-launch this canal PINS programme by locating these projects at far off places where farmers are struggling to get irrigation water. Though it involves little more investments in term of infrastructure expenditure, the adaptation and long-term sustainability would be surely achieved just like the success of PINS projects in Sanchore region in Rajasthan.



- The areas where PINS+MIS is techno-economically not feasible, normal/conventional flow irrigation as per present SSNNL policy may be allowed to continue.

(iv) Title of the Project	: Working of Pressurized Irrigation Network Systems (PINS) in Rajasthan.
Principal Investigator	: M. Swain, Hemant Sharma and Manishkant Ojha
Sponsored by	: Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India
Coordinating Centre	: AERC, Vallabh Vidyanagar
Date of Commencement	: January 2016
Date of Submission	: February 2017

Summary:

The data was collected from three selected districts, viz., Bikaner, Jalore and Barmer. Only available PINS were selected from surface irrigation command areas (mainly canal). The beneficiary households (households having access to irrigation water in Government PINS Command area) were selected. About 200 beneficiary and 100 non-beneficiary households were covered for the detailed study. The Pressurized Irrigation Network System (PINS) Programme in Rajasthan is mainly concentrated in two major irrigation projects, i.e., Indira Gandhi Neher Project in Bikaner district and Narmada Irrigation Project in Jalore and Barmer districts. Under Narmada canal, about 2,35,000 hectares area has been irrigated in Sanchore and Chittalwana (Jalore), Gudha malani and Dhorimanna (Barmer) districts. Under IGNP, the PINS project was started on pilot basis in Bikaner district from 2012-13 and initially only 33000 hectare area was covered. Recently, the Centre has approved around Rs 1,659 crore for PINS projects in the state.

- The study finds that the average spending on an individual PINS project with the capacity to irrigate about 100 hectares including the charges of electricity connections is estimated to be about 37.0 lakhs in Rajasthan. Out of the total cost incurred, about 40.4 per cent expenditure was incurred on civil work (Cost of diggy, pump, pump house and boundary wall) and 45 percent on mechanical works. The adoption of PINS with

sprinkler irrigation system in place of conventional irrigation method in Narmada command area in Rajasthan has resulted in widespread benefits. The CCA has increased from 1.35 lakh hectares to 2.46 lakh hectares, an increase by 78 per cent. The number of villages benefitted for irrigation has increased from 89 to 233. The value of food production has been estimated to increase by 2.8 times from Rs 534 crore under flood irrigation to Rs 1480 crore under sprinkler.

- Among sample farmers, all sample beneficiary farmers had adopted sprinkler whereas only 1.0 per cent of them had adopted drip system in the state. Since the sprinkler system is very useful on sandy topography in Rajasthan, the same has been very popular in the state. Among different benefits accrued by the beneficiary farmers by participating in WUA, the increase in area under irrigation (100%), increase in agricultural income (99.0%), water saving due to judicious use of water (97.5%), getting water in right time (88.0%), timely information on release of water from canal (82.5%), proper distribution of water among farmers (68.0%), getting more information on how to use water judiciously (56.7%) and electricity saving due to use of shared pump sets attached with PINS (58.0%) were the major ones. As far as area and yield impacts are concerned, it was found that the average yield as well as area under majority of crops are higher in case of beneficiary compared to non-beneficiary



households. Overall, 12.3 per cent more area was cultivated by the beneficiary households. Among Rabi crops, the beneficiary farmers had enjoyed better crop yields as compared to non-beneficiary farmers in case of crops like gram, isabgul and cumin.

- Among various other benefits, reduction in fertiliser use (84.7%), reduction in weeding cost (52.0%), saving of land due to PINS (64.0%), reduction in labour use (57.0%), Less water logging or water salinity (59.3%) and less frequency of maintenance due to adoption of PINS-MIS compared to conventional flow irrigation (44.0%), reduction in migration of family members due to more availability in water (61.0%), and increase in social cohesion among the water users/villagers in managing the water (27.5%) were the major socio-economic and environmental benefits accrued by the farmers due to adoption of PINS-MIS. The major problems faced by the farmers were insufficient electricity for operation of PINS (60%), inadequate water availability (37.5%), difficulty in getting subsidy for MIS system (26%) and the problems related to operation and maintenance of the PINS-MIS system.
- As far as the adoption, performance and management of PINS by WUAs in the state is concerned, it was found that the average life span of the PINS system was highest of about 24.4 years. The average area covered under each PINS WUA was 246.8 ha per PINS and the average number of beneficiaries covered was 84. The size of PINS was much larger in Bikaner, followed by Barmer and Jalore. The major component of operation and maintenance cost on PINS was electricity charges and repairing/maintenance of canal PINS, accounting for about 46.24 per cent and 35.8 per cent of total operation and maintenance cost, respectively. Among the major activities of WUA, operation & maintenance of PINS Project, deciding the timing of water release, judicious water distribution, collection of water rates, collection of per capita operation, maintenance cost and dispute settlements were

the major activities of WUAs. The major benefits provided by the WUAs to its members were arrival of water in time, proper distribution of water among farmers, more information on how to use water judiciously, saving of water, electricity and labour cost, improved maintenance of the system and less conflicts around water. The crop yield has improved significantly during post-WUA situation with about 81 per cent WUAs reporting higher yield compared with pre-WUA situation. The average irrigated area has increased from 36.9 ha per WUA during pre-WUA situation to 228.2 ha during post-WUA situation, by more than 06 times, while the returns from agricultural production has increased by more 04 times during post WUA situation compared with pre-WUA situation. Among the constraints faced by the WUAs, the funds constraints, unavailability of required quantity of water, unavailability of proper maintenance and repairing services, poor participation of WUA members and incomplete PINS work were the major ones.

- Some suggestions were made for improvement in the programme in Rajasthan. The average size of WUA in Rajasthan is usually high, sometimes covered about 900 ha under one PINS project with more than 200 beneficiary farmers. Very large size of WUA becomes very difficult to manage. Thus, it is suggested to install more number of PINS and reduce the number of farmers per PINS-WUA, thus would help in proper distribution of water among the farmers irrespective of location of plots in the command area of PINS. Moreover, same time is allotted to all plots irrespective of their location. However, due to lower pressure at tail end region, the tail end farmers did not get enough water compared to head region farmers. At some places, the outlets were kept open, when not in use. This resulted in choking of outlet pipes during regular storms/ sand dunes in the state. Thus, it is suggested to provide outlet covers to keep it closed while not in use.
- Due to scarcity of irrigation water, some of the non-beneficiary farmers depend only on rain

water. Thus they demand to expand the coverage of PINS to their area. Thus, it is necessary to expand PINS coverage so as to ensure proper water distribution among the farmers.

- It was observed that some promoting companies supplying the irrigation infrastructures and servicing are not functioning genuinely. As a result, the farmers are facing repeated troubles. Due to low quality of materials, frequent repair becoming inevitable. On the other hand, much more time is being consumed for repairing and high charge is being imposed since the technician

covers a long distance to reach the farmer's village. There is urgent need to provide more number of servicing centres, at least one at taluka level. On the other hand, local people should be trained to cater the need of the farmers. It is suggested to examine the performance of the promoting companies and treat them with appropriate incentives/ disincentives since their services were also found unsatisfactory at many places. There is provision to provide proper training to WUAs to manage the PINS system. However, the quality of such training programme needs improvement.

- (v) Title of the Project : **Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat & Rajasthan**
- Principal Investigator : M. Swain
- Sponsored By : Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India
- Coordinating Centre : Institute of Social and Economic Change, Bangalore
- Date of Commencement : April 2016

Objectives of the Project:

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



IASRI Project Field Visit - Gandhinagar District





PROJECTS IN PROGRESS

(i) Title of the Project : **Assessment of the Status of Dairying and Potential to Improve Socio Economic Status of the Milk Producers and Convergence of all Central and State schemes at district level in India
State Reports- Gujarat and Rajasthan
All India Report**

Principal Investigator/s : S. S. Kalamkar and H. Sharma

Sponsored By : Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India

Coordinating Centre : AERC, Vallabh Vidyanagar

Date of Commencement : December 2015

Objectives of the Study

- a) To assess the present status of dairying with reference to animal distribution, milk production, consumption and marketable surplus.
- b) To identify the constraints in dairy development from supply side, institutional deficiency and processing infrastructure.
- c) To highlight the facilitating factors that could help promoting dairy development to improve socio economic status of the milk producers.
- d) To suggest broad areas for focused interventions for promoting dairy development in the selected state and the way forward.
- e) To identify different central and state government schemes related to dairy development at district level and document technical as well as operational details of the schemes and understand how convergence is ensured.
- f) To suggest suitable policy measures to ensure compliance of effective convergence of various schemes for the benefits of dairy farmers.

(ii) Title of the Project : **Working of Pressurized Irrigation Network Systems (PINS) in India
State Reports- Gujarat and Rajasthan and All India Report**

Principal Investigator/s : M. Swain and S. S. Kalamkar

Sponsored By : Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India

Coordinating Centre : AERC, Vallabh Vidyanagar

Date of Commencement : December 2015



Objectives of the Study

- a) To undertake a broad situation analysis of various PINS programs implemented in select states of India.
- b) To assess the extent of adoption and performance of PINS in terms of costs, benefits and adoptability for different crops.
- c) To analyse the institutional arrangements for management, operation and maintenance of PINS.
- d) To identify the major constraints in adoption, management, operation and maintenance of PINS.
- e) To recommend suitable policy measures to enhance the effectiveness and techno-economic performance of PINS.

- (iii) Title of The Project : **Pilot Study for developing state level estimates of crop area and production on the basis of sample sizes recommended by Prof. Vaidyanathan Committee Report - Gujarat State**
- Principal Investigator/s : S.S. Kalamkar, S. R. Bhaiya, M. Swain & H. Sharma
- Sponsored By : ICAR-Indian Agricultural Statistics Research Institute, Pusa, New Delhi (funded by Ministry of Agriculture & Farmers Welfare, GOI to IASRI covering five states)
- Coordinating Centre : ICAR- IASRI, Pusa, New Delhi
- Date of Commencement : March 2016

Objective of the Study :

- To conduct pilot study to generate reliable estimates of area and production of selected crops in Gujarat, as per methodology suggested by the Vaidyanathan Committee.

- (iv) Title of the Project : **Impact Evaluation Study of National Horticulture Mission (MIDH) -Gujarat, Rajasthan , MP & MS**
- Principal Investigator : S.S. Kalamkar, S. R. Bhaiya, M. Swain & H. Sharma
- Sponsored By : Institute for Social and Economic Change (ISEC) SEC, Bangalore (Ministry of Agriculture & Farmers Welfare, GOI)
- Coordinating Centre : AERC, Vallabh Vidyanagar
- Date of Commencement : December 2015

Objectives of the Study

- To study the impact of National Horticulture Mission (NHM) for the purpose of assessing its effectiveness in meeting the objectives for which the scheme was conceptualized.

- (v) Title of the Project : **Preparation of database on 15 Major Indicators of Agricultural Performance in Gujarat and Rajasthan (2017-18).**
- Principal Investigator : Mrutyunjay Swain
- Sponsored by : Directorate of Economics and Statistics, Ministry of Agriculture & Farmers Welfare, Government of India.
- Coordinating Centre : Institute of Social and Economic Change, Bangalore
- Date of Commencement : April, 2017

Objective of the Study :

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



IASRI Project Field Visits



IASRI Project Field Visits



PUBLICATIONS

A) Research Papers / Articles Published:

- “MFIs, Responsibility and Strategic Direction”, Strategic Change (print ISSN: 1086-1718 online ISSN: 1099-1697), Vol. 25, September 2016 (DOI 10.1002*/jsc.2083), pp. 603-612, by Dimple Tresa Abraham and S.S. Kalamkar.
- “Assessing Desirability of Free Trade Agreements (FTA) for Indian Dairy Sector”, Artha Vikas (ISSN 0004-3567), Vol. LII, No. 1 & 2, Jan-Dec 2016, pp. 36-47, by Mrutyunjay Swain, S.S. Kalamkar and Priyanka Patel.
- “Climate Change, Natural Resource Degradation and Agriculture in India”, in Compendium of papers and abstract of ‘International Conference on ‘Food, Water, Energy Nexus in Arena of Climate Change’ during October 14-16, 2016 organized jointly by Anand Agricultural University (AAU) and National Council for Climate Change, Sustainable Development and Public Leadership (NCCSD) at AAU, Anand, Summary, page 128, by S.S. Kalamkar.
- “Performance of Soil Health Card Programme in Gujarat” in Compendium of papers and abstract of ‘International Conference on ‘Food, Water, Energy Nexus in Arena of Climate Change’ during October 14-16, 2016 organized jointly by Anand Agricultural University (AAU) and National Council for Climate Change, Sustainable Development and Public Leadership (NCCSD) at AAU, Anand, Summary, page 224, by M. Swain, S.S. Kalamkar and Kalpana Kapadia.
- “Organic Farming in India: Strategy for Climate Change Mitigation” in Compendium of papers and abstract of ‘International Conference on ‘Food, Water, Energy Nexus in Arena of Climate Change’ during October 14-16, 2016 organized jointly by Anand Agricultural University (AAU) and National Council for Climate Change, Sustainable Development and Public Leadership (NCCSD) at AAU, Anand, Summary, p. 241, by Yamuna R. Pillai and S.S. Kalamkar.
- ‘Possibilities and Constraints in Increasing Pulses Production in Rajasthan’, Agricultural Economics Research Review, Vol. 29, 2016, Summary, p. 222, by K. M. Kapadia, R.A. Dutta and S. S. Kalamkar.
- “Impact of National Food Security Mission (NFSM) on Input Use, Production, Productivity and Income in Gujarat’, Agricultural Economics Research Review, Vol. 29, 2016, Summary, p. 223, by R.A. Dutta, S.S. Kalamkar and M. R. Ojha.
- “Policy Implications in Strengthening E-Market/ national Market”, proceedings of National Dialogue on Agricultural E-Market: national Agricultural Market, organized jointly by International Food Policy Research (IFPRI) New Delhi and Indian Society of Agricultural Marketing (IASM) at Centre for Economic and Social Studies, Hyderabad, October, 2016, pp. 12-13, by S. S. Kalamkar.
- “Review of Contract Farming Regulations with special reference to State of Maharashtra and Gujarat”, Indian Journal of Agricultural Marketing, Vol. 30, No. 3, 2016, Summary, pp. 83-84, by Varuan Miglani and S.S. Kalamkar.
- “Trade in Indian Dairy Sector: Status, Issues and Challenges” Indian Journal of Agricultural Marketing, Vol. 30, No. 3, 2016, Summary, pp. 137-138, by S.S. Kalamkar, M. Swain and K. M. Kapadia.
- “Implications of Free Trade Agreements (FTA) for Indian Dairy Sector”, Indian Journal of Agricultural Marketing, Vol. 30, No. 3, 2016, Summary, p. 142, by M. Swain, S.S. Kalamkar and Priyanka Patel.
- “Socio-Economic Impact of Tarakpur Check Dam in Khambhat Area of Gujarat”, Indian Journal of Economics and Development (ISSN 2277-5412), Vol. 13, No. 2, April June 2017, pp 229-242, by S.S. Kalamkar, H.P. Trivedi, S.R. Bhैया and D.J. Chauhan.



- “Socio-Economic Impact Analysis of Introduction of Renewable Energy Technologies in Five Tribal Villages of Gujarat (India)”, Indian Journal of Economics and Development, by S.S. Kalamkar, M. Swain and M. Vahora (Forthcoming).
 - “Solar Power Generation and Usage in Irrigation: Lessons from a novel cooperative initiative in India” Indian Journal of Economics and Development, (ISSN 2277-5412), Vol. 13, No. 3, July-September 2017, pp. 413-423, by Sonal Bhatt and S.S. Kalamkar.
 - “Coping with Food and Nutrition Insecurity by Rural Women in Drought Prone Bolangir District of Western Odisha”, Agricultural Economics Research Review (ISSN: 0971-3441), Vol.29, No.2, July-Sept 2016, pp-43-52, by Mrutyunjay Swain.
 - “Qualitative Analysis of Functioning of Local Government for MNREGA Implementation in Rajasthan, India”, The Journal of Local Government, Vol 42, No.1, March 2017, by Mrutyunjay Swain.
 - “Experiences of Women with Super Cyclone in Coastal Odisha, India, in Linda Racioppi and Swarna Rajagopalan (Eds) ‘Women and Disasters in South Asia: Survival, Security, and Development’ (ISBN: 9781138210462), Routledge (Taylor & Francis), London, pp-99-142, 2016, by M. Swain, Mamata Swain and Dr. Ranju. H. Sahoo.
 - “Livestock Prospects and Problems in Gujarat” Published in Arthvikas, Vol. LII, No. 1 and 2, Jan-Dec, 2016, pp 48-63 (R. No. 15058/67 ISSN 0004-3567) by S. R. Bhaiya.
 - “Non-Farm Sector in Gujarat: Issues and Challenges” SPET Research Journal of Social Science, Vol. 4 No. 2, Aug, pp 4-30 (ISSN No. 2348 2982) by S. R. Bhaiya.
 - “Oilseed Economy in Gujarat: A Comparative Study of Groundnut” SPET Research Journal of Social Science, Vol. 4 No. 2, Aug, pp 86-100 (ISSN No. 2348 2982) by S. R. Bhaiya.
 - “Human Development in India – A View in the World Context” SPET Research Journal of Social Science, Vol. 5 No. 1, Feb, pp 108-122 (ISSN No. 2348 2982) by S. R. Bhaiya and J P Parmar.
 - “Socio Economic Impact of Check Dam on Agricultural Labour Families in Khabhat Area of Anand”, Vishleshan, Vol. 42, No. 1, Jan-June. 2016, pp 59-75 (ISSN 0973-6891) by S. R. Bhaiya.
 - “E-Learning Literacy”, in Mendhe, Ravindra; Tumsuk, Kulthida; Kwiecien, Kayarat Kwiecien and Sadlpur, Shivanand (Eds) Future Librarianship: Innovative Embedded Sustainable and Emerging Trends, Academic Book Publications, Jalgaon, June 2016, pp. 280-284, (ISBN: 978-93-85664-16-8) by Dr. Hina J. Patel & Deep K. Patel.
 - “RFID based Library management System”, in Mendhe, Ravindra; Tumsuk, Kulthida; Kwiecien, Kayarat Kwiecien and Sadlpur, Shivanand (Eds) Future Librarianship: Innovative Embedded Sustainable and Emerging Trends, Academic Book Publications, Jalgaon, June 2016, pp. 476-478, (ISBN: 978-93-85664-16-8) by Deep K. Patel & Kinjal S. Parekh.
- B) Working Papers:**
- ‘Marketed and Marketable Surplus of Major Food grains in Rajasthan’, AERC Working Paper 2016/01, by V. D. Shah & Manish Makwana.
 - ‘Socio-Economic Impact of Tarakpur Check Dam in Khambhat Area of Gujarat’, AERC Working Paper No. 2016/02, October 2016, by S. S. Kalamkar, H. P. Trivedi, S. R. Bhaiya and D. J. Chauhan.
 - Socio-Economic Impact of Introduction of Renewable Energy Technologies in Tribal Villages of Gujarat, Working Paper No. 2016-03, November 2016, by S. S. Kalamkar, M. Swain & S. Vahora.
 - ‘Decentralized Solar Power Generation and Usage in Agriculture: A Study of Dhundi Solar Irrigation Cooperative in Gujarat, Western India’, AERC Working Paper 2016/04, December 2016, by Sonal Bhatt and S.S. Kalamkar.

- 'Estimation of Changes in Income and Cost of Production owing to Changes in Inputs and Hybrid Seeds for Major Crops of Gujarat', AERC Working Paper 2017/01, January 2017, by S.S. Kalamkar, M. Swain and S. R. Bhaiya, pp. 1-39.
 - 'Evaluation and Assessment of Economic Losses on Account of Inadequate Post-Harvest Infrastructure Facilities for Fisheries Sector in Gujarat State', AERC Working Paper 2017/02, March 2017, by H. Sharma, M. Swain & S. S. Kalamkar, pp. 1-39.
- C) Publications released by the Centre**
- Monthly News Letter 'Agricultural Production and Market Outlook ', in English & Gujarati, Agro Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar; Gujarat.



Shri H. M. Pandya receiving the Best Fieldman Award (2015-16) on July 1, 2016



Meeting with Farmers on July 24, 2016 (Rajkot)



National Workshop on Cost of Cultivation scheme at TNAU, Coimbatore during January 18-20, 2017



NAAC team visit to PG Department of our University on January 06, 2017



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

Dr. S.S. Kalamkar

- Acted as an External Expert and evaluated three Ph.D. thesis submitted by candidate for the degree of Ph.D. Commerce (Business Economics) of Savitribai Phule Pune University, Pune, April 2016.
- Acted as a resource person and delivered two lectures at UGC sponsored 32nd Orientation Programme (May 2-29, 2016) organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat on May 04, 2016.
- Visited the regional office of National Sample Survey Office (NSSO), Near Urban Health Centre, Purhottam Nagar, Nava Vadaj, Ahmedabad and discussed with Shri Rajiv Sharma, Field Operation Division & his colleagues about your support in conducting field work of IASRI research project on May 9, 2016.
- Participated at the meeting with the World Bank team during its visit to NDDDB, Anand during from 12 to 13th May, 2016 to review approved sub projects under NDP I. The presentation on research project on “Impact evaluation and assessment of RBP implementation in Northern and Southern Regions” undertaken by NDRI, Karnal (AERC is associated with project) was made by Dr. Smita Sirohi, Project Coordinator, NDRI, Karnal on 12th May, 2016, at NDDDB, Anand.
- Acted as an External Expert and evaluated a Ph.D. thesis submitted by candidate for the degree of Ph.D. Agricultural Economics of Anand Agricultural University, Anand, Gujarat, May 30, 2016.
- Acted as an External Expert and evaluated a Ph.D. thesis submitted by candidate for the degree of Ph.D. Economics of Shivaji University, Kolhapur, Maharashtra, May 31, 2016.
- Participated at the Executive Committee meeting of Gujarat Economic Association (GEA) held at N. S. Patel Arts College, Anand on June 12, 2016.
- Acted as a External Expert for conducting viva-voce examination of the NDDDB officers due for promotion on June 20, 2016 at NDDDB, Anand.
- Visited and participated in the meetings at Directorate of Agriculture (GOG), NSSO Office and Shri Mehta (Retired Director, Pension GOG) on June 21, 2016.
- Acted as an Expert on the Committee constituted for Smart Village Programme of Anand district constituted by District Development Officer, Anand and participated in meeting of said Committee held on June 6, 2016 and June 24, 2016 at DDO Office, Anand.
- Acted as a Chief guest and delivered address on “Scientific & Sustainable Agricultural Practices” to the “Agro entrepreneurs” at the inaugural session of the Agro Entrepreneurship Training under iSTED Project, Sponsored by NSTEDB, DST, Govt. of India organized by Rural Development foundation (RDF) at Hotel ‘The Grand’ Opp. Uma Bhavan, Anand- Sojitra Road, Anand on July 3, 2016.
- Acted as an External Expert and evaluated a M.Sc. thesis submitted by candidate for the degree of M.Sc. (Ag) Agricultural Economics of Anand Agricultural University, Anand, Gujarat, July 15, 2016.



- Acted as an External Expert and assessed the publication of faculty who was due for promotion of Vishva Bharti-A Central University, Santiniketan (West Bengal) July 18, 2016.
- Acted as External Expert for viva-voce examination for Ph.D. thesis of candidate for the degree of Ph.D. Agricultural Economics of Anand Agricultural University, Anand, Gujarat, July 21, 2016 (Mr Shaikh).
- Acted as a resource person and delivered two lectures on July 25, 2016 at UGC sponsored 33rd Orientation Programme organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, during June 11, 2016 to August 7, 2016.
- Attended the final Ph.D. Viva Voce of my understudy at Symbiosis International University, Lavale, Pune (Maharashtra) - PDC awarded- August 12, 2016.
- Acted as an External Expert and evaluated a Ph.D. thesis submitted by candidate for the degree of Ph.D. Economics of University of Mysore, Mysore, August 16, 2016.
- Acted as an External Expert and evaluated a Ph.D. thesis submitted by candidate for the degree of Ph.D. Economics of Anand Agricultural University, Anand, August 19, 2016.
- Attended the final Ph.D. Viva Voce of my understudy at Gokhale Institute of Politics and Economics, Deemed University, Pune (Maharashtra)- PDC Awarded- August 29, 2016.
- Acted as subject expert as nominated by the Vice Chancellor, Solapur University, Solapur for CAS promotion interview at Shankararao Mohite Mahavidyalaya, Akluj, Malsiras, Solapur August 30, 2016.
- Acted as an External Expert and evaluated a Ph.D. thesis submitted by candidate for the degree of Ph.D. (Economics) of North Maharashtra University, Jalgaon (Maharashtra), September 2, 2016.
- Participated in 88th meeting of the National Statistical Commission (NSC) scheduled to be held on 22.09.2016 at National Sample Survey Office (NSSO), Near Urban Health Centre, Purnhottam Nagar, Nava Vadaj, Ahmedabad on September 22, 2016.
- Participated and present the working of CCS Gujarat at the meeting held on 27.09.2016 at Directorate of Agriculture, Government of Gujarat, Krishi Bhavan, Gandhinagar. Also met the Principal Secretary (Ag), GoG (who is ex-officio member of AERC) as curiosity visit.
- Acted as External Expert for viva-voce examination for Ph.D. thesis of candidate for the degree of Ph.D. Agricultural Economics of Anand Agricultural University, Anand, Gujarat, September 28, 2016.
- Acted as an External Expert and evaluated Ph.D. thesis submitted by candidate for the degree of Ph.D. Commerce (Business Economics) of Savitribai Phule Pune University, Pune on September 28, 2016.
- Acted as an External Expert and evaluated Ph.D. thesis submitted by candidate for the degree of Ph.D. Economics) of Degree of Doctor of Philosophy of Solapur University, Solapur on September 28, 2016.
- Acted as a resource person and delivered two lectures on September 30, 2016 at UGC sponsored 34th Orientation Programme organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during 26-09-2016 to 23-10-2016.
- Participated at “National Dialogue on E-market/ National Market”, organized by Indian Society of Agricultural marketing (ISAM) in collaboration with International Food Policy Research Institute (IFPRI), Washington D.C./Delhi and Centre for Economic and Social Studies (CESS), Hyderabad on 5th and 6th October 2016 at CESS, Hyderabad. Also acted as a Chairman of Technical Session IV of said dialogue “Policy Implications in Strengthening E-market/National market.



- Acted as a Member of Selection Committee under Direct Recruitment for the post of Assistant Professor at Sardarkrushinagar Dantiwada Agricultural University, Sardar Krushinagar, Dist. Banaskantha (Gujarat) on 07.10.2016
- Acted as an External Expert and evaluated a Ph.D. thesis submitted by candidate for the degree of Ph.D. (Economics) of Solapur University, Solapur, October 12, 2016.
- Acted as an External Expert and evaluated three Ph.D. thesis submitted by candidate for the degree of Ph.D. Commerce (Banking & Finance) of Savitribai Phule Pune University, Pune on 13.10.2016.
- Participated in International Conference on 'Food, Water, Energy Nexus in Arena of Climate Change' during October 14-16, 2016 organized jointly by Anand Agricultural University (AAU) and National Council for Climate Change, Sustainable Development and Public Leadership (NCCSD) at AAU, Anand and presented the paper "Climate Change, Natural Resource Degradation and Agriculture in India"; "Performance of Soil Health Card Programme in Gujarat (with M. Swain and Kalpana Kapadia) and " Organic Farming in India: Strategy for Climate Change Mitigation (with Yamuna Pillai) p. 241.
- Participated in '30th National Conference of the Indian Society of Agricultural Marketing, organized by the Department of Agricultural Economics, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, During October 20-22, 2016 and presented the papers at the technical session I and II of said Conference ("Review of Contract Farming Regulations with special Reference to State of Maharashtra and Gujarat", by Varun Miglani and S. S. Kalamkar; "Trade in Indian Dairy Sector: Status, Issues and Challenges", by S.S. Kalamkar, M. Swain and K.M. Kapadia; and "Implications of Free Trade Agreements (FTA) for Indian Dairy Sector" by Mrutyunjay Swain, S.S. Kalamkar and Priyanka Patel).
- Also participated in the Executive Committee meeting of the Indian Society of Agricultural Marketing held at Banaras Hindu University, Varanasi on October 21, 2016.
- Participated and presented a paper titled "Free Trade Agreement (FTA) for Indian Dairy Sector: Prospects and Constraints" (by Dr Swain) in the 5th International Conference on WTO, Trade and Agriculture: Issues and Challenges for Developing and Least Developed Countries, held during October 20-21, 2016 at Centre for WTO Studies, Indian Institute of Foreign Trade (IIFT), New Delhi.
- Participate at the workshop on "The Role of Differential Subsidy Policy in the Adoption of Micro Irrigation Systems (MIS) in Gujarat", organized at Gujarat Institute of Development Research (GIDR), Ahmedabad on October 25, 2016.
- Attended BOG and GB meeting of India Natural Resource Economics and Management (INREM), Anand on 12.12.2016.
- Attended ISTED Project meet - Stake Holders Meet organized by Rural Development Foundation, Anand on December 17, 2016.
- Visited the Cost of Cultivation of Scheme in Maharashtra located at Department of Agricultural Economics, Mahatma Phule Krishi Vidyapeeth, Rahuri, Ahmednagar and provided training to staff of CCS pertaining to project field work in Maharashtra for the project separately approved by Ministry of Agriculture, GOI on "Impact Evaluation Study of National Horticulture Mission (NHM) and Horticulture Mission for North East and Himalayan States (HMNEH)" to ISEC, Bengaluru ON December 19, 2016.
- Participated in Government of Gujarat's Expert Committee Meeting on Minimum Support Price for kharif crops for the season 2017-18 held at APIC, Krishi Bhavan, Gandhinagar on December 21, 2016.



- Key note paper on 'India and Sustainable Development Goals (SDGs): Status and Challenges' (presented by Dr. S.R. Bhaiya) at 47th Annual Conference of Gujarat Economic Association (GEA), organized by D.D. Thakar Arts and K. J. Patel Commerce College, Khedbrahma during January 6-8, 2017.
- Participated and presented a paper on 'Food Security and Sustainable Development: Status & Challenges' at International Conference organized at N S Patel College of Arts, Anand on Jan 7, 2017. Also worked as a chairman of Technical Session of said conference.
- Participated and presented a paper on 'Food Security and Sustainable Development Goals' at International Seminar on Sustainable Development as a holistic Economic Development' organized jointly by N.S. Patel Arts College, Anand and Global Economist Forum at Anand on January 11, 2017. Acted as a Chairman of Technical Session V of said seminar.
- Acted as a Resource Person and delivered lecture on 'How to Write Research Proposal' at one day National Research Workshop on January 13, 2017 organized by C.P. Patel and F. H. Shah Commerce College, Anand.
- Acted as a Resource Person and delivered a invited talk on 'Food Security and Business Environment in India' to M. Com. students of B.J.V.M (Commerce College), Vallabh Vidyanagar under 'Practitioner Perspective Lecture Series' on February 13, 2017.
- Acted as a Deputy Election Officer for the Senate Election (under Ordinary Fellow- Registered Graduate) of Sardar Patel University, Vallabh Vidyanagar, Gujarat on February 5, 2017.
- Acted as a Subject Expert nominated by the Hon Vice Chancellor, of Anand Agricultural University on the selection committee for the post of Professor in AAU, Anand on February 8, 2017.
- Acted as a resource person and delivered two lectures on February 9, 2017 at UGC sponsored 35th Orientation Programme organized by UGC Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, Gujarat during 06-02-2017 to 05-03-2017.
- Acted as a Resource Person and delivered lecture on 'Food Security and Sustainable Development in Agriculture' on 16/02/2017 at Faculty Development Program organized by Knowledge Consortium of Gujarat, Ahmedabad.
- Acted an External Referee for Ph.D. thesis Viva Voce examination of candidate (Shri Digamber Mangu Chavhan, Economics) for Ph.D. degree of Savitribai Phule Pune University (SPPU), Pune, Maharashtra, held at Department of Economics of SPPU, Pune on 17.02.2017.
- Acted as Deputy Election Officer of Senate Election 2017 (Registered Graduate) of Sardar Patel University, Vallabh Vidyanagar on 05.02.2017.
- Acted as an External Expert and evaluated two Ph.D. thesis submitted by candidate for the degree of Ph.D. (Economics) of Shivaji University, Kolhapur (Maharashtra), March 4, 2017.
- Acted as an External Expert and evaluated two Ph.D. thesis submitted by candidate for the degree of Ph.D. (Economics) of Savitribai Phule Pune University, Pune (Maharashtra), December 5 & 7, 2016.
- Participated in Western Region meeting organized by Commission for Agricultural Cost and Prices (CACP), Govt. of India for the price policy for kharif crops for the 2017-18 season on 24th January, 2017 at Secretariat, Swarnim Sankul 1, Government of Gujarat, Gandhinagar.
- Participated at the National Workshop on Cost of Cultivation Scheme organized by Cost Scheme, Directorate of Economics and Statistics, Ministry of Agriculture and Farmers Welfare, Government of India at Department of Agricultural Economics, Centre for Agricultural and Rural Development Studies, Tamil Nadu Agricultural University, Coimbatore during January 18-20, 2017.



- Acted as Deputy Election Officer of Senate Election 2017 (Head Master and Secondary Teacher) Sardar Patel University, Vallabh Vidyanagar on 19.02.2017.
- Delivered the lectures at One Day Workshop on “How to write a Research Paper” organized at the Centre on December 3, 2016.
- Participated in Workshop at ICAR-Indian Agricultural Statistical Research Institute (IASRI), New Delhi during March 17-18, 2017 and made presentation on work done for CCE project in Gujarat.
- Visited the Krishi Bhavan, New Delhi during March 14-16, 2017 and met Shri Rupaliaji (Hon Union Minister of State for Agriculture and Farmers Welfare, GOI); Officials of DES, Ministry of Agriculture, GOI; Officials of IEG, Delhi and other with request for continuation of funding to AERC beyond March 2017.
- Survey Organization (NSSO), Ahmedabad at Hotel Metropol, Ahmedabad on 29th June 2016.
- Participated in CAFT Training Programme on ‘Advances in Experimental Data Analysis’ organized by Indian Agricultural Statistics Research Institute, New Delhi during October 6-26, 2016.
- Participated in Two day training programme on Export of Agricultural Products, Organized by Anand Agricultural University, Anand during 29-30 November 2016.

Dr. S. R. Bhaiya

Dr. M. Swain

- Participated and presented a paper on “Free Trade Agreements (FTA) for Indian Dairy Sector: Prospects and Constraints;”, at the 5th International Conference on WTO, Trade and Agriculture: Issues and Challenges for Developing and Least Developed Countries, organized by Indian Institute of Foreign Trade (IIFT), New Delhi during October 20 and 21, 2016.
- Participated and presented a paper on “Role of Spirituality in Economic Development”, in the technical session of 10th SIR Conference organized by Spiritual Application Research Centre (SpARC) – a Research Wing of RERF (Rajyoga Education & Research Foundation), Mount Abu, Rajasthan during 16th- 20th September 2016.
- Participated and presented a paper on “Agricultural Development and Farmers Welfare in Gujarat”, at 10th Statistics Day Celebration, jointly organized by Directorate of Economics and Statistics, Gandhinagar and National Sample
- Acted as a resource Person: Comprehensive Scheme to Study the Cost of Cultivation of Principal Crops in Gujarat, Methodology and Functioning, Director, Directorate of Agriculture, Krishi Bhavan Gandhinagar, Gujarat, Oct. 27, 2016.
- Presented paper on ‘Status of Sustainable Development Goals (SDGs) and India: Issues and Challenges’ in the 47th Gujarat Economic Conference, Gujarat Economic Association, Organized by D D Thakkar Arts and K J Commerce College, Khedbrahma, Sabar Kantha, Gujarat dated January 6-8, 2017.
- Participated in the National Training Workshop on Computer Assisted Personal Interviewing (CAPT) organized by the United Nations Food and Agricultural Organization at the Indian Agricultural Statistics Research Institute, New Delhi, India dated July 11-15, 2016.
- UGC Sponsored National Seminar on History of Economic Thoughts, Development and Study of Economic Systems organized by Department of Economics, Commerce and Arts Collage, Mahudha dated August 31, 2016. A research paper presented on ‘History of Economic Thought: Indian Perspective’.
- Participated in the “One day Workshop” on How to write a research paper? Organized by Gujarat



Economic Association and Agro Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, dated December 3, 2016.

- Participated Vishleshan Trust sponsored International Seminar on “Contemporary Issues in Development” and organized by Department of Human Resource Development, Veer Narmad South Gujarat University, Surat, India dated Dec 11, 2016. Presented a paper titled “Rural Women Education Scenario in Gujarat and India”.
- Participated in the 47th Gujarat Economic Conference on “Sustainable Development Goals: Them I” and organized D D Thakkar Arts and K J Commerce College, Khedbrahma, Sabar Kantha, Gujarat dated January 6-8, 2017. Presented a paper titled “Comparison of Sustainable Development Goals and Millennium Development Goals”.
- Participated in the One day International Seminar on ‘Sustainable Development as a Holistic Economic Development’ jointly organized by N S Patel Arts College, Anand and Global Economist Forum, UN at Anand dated January 11, 2017. Presented a paper entitled “Sustainable Development Goals and Millennium Development Goals: How they are same and different?”.
- Participated in the “National Workshop” (Sponsored by Ministry of Agri. Govt. of India, New Delhi) at Agriculture University, Coimbtore, Tamil Nadu, dated January 18-20, 2017.
- Participated in the One National Seminar on ‘Human Development: Issues and Challenges in India’ jointly organized by G H Patel Postgraduate Institute of Business Management and Postgraduate Development of Economics, Sardar Patel University, Vallabh Vidyanagar dated January 21, 2017. Presented a paper entitled “Human Development in India – A Economic View in the World Context”.

Dr. Hemant Sharma

- Participated and presented Poster at Conference on Pulses for Sustainable Agriculture & Human Health IFPRI, NASC, Pusa, New Delhi, May 31-June 01, 2016.
- Participated and presented Seminar in brainstorming session on Pulses for Sustainable Agriculture & Human Health IFPRI, NASC, Pusa, New Delhi, July 14, 2016.
- Participated in 21 days Centre of Advanced Faculty Training (CAFT) on “Impact Assessment of Agricultural Technology” Organized by Division of Agricultural Economics, ICAR-Indian Agricultural Research Institute, New Delhi During 14 December 2016 to 3 January 2017.
- Presented a paper on “Export of Dairy Products from India” 30th National Conference on Agriculture Marketing of India Society of Agricultural Marketing held at Department of Agricultural Economics, BHU, Varanasi, Uttar Pradesh during October 20-22, 2016.

Shri Manishkant Ojha

- Participated in the Two-day Training Programme for Young Entrepreneurs on “Export of Agricultural Products” Organized by Department of Agricultural Economics & WTO Cell, B. A. College of Agriculture, AAU, Anand.
- Participated in Regional Conference on “Doubling of Farmers Income” held at Jaipur, jointly organized by NABARD and Government of Rajasthan during October 20-21, 2016.

Shri Manish Makwana

- Participated & presented Poster iv Conference on Pulses for Sustainable Agriculture & Human Health IFPRI, NASC, Pusa, New Delhi, May 31-June 01, 2016.



Ms. Kalpana Kapadia

- Participated and presented a paper on “Role of Crop Insurance in Production Risk Management for Agribusiness in Uttar Pradesh: Special Reference to NAIS”, in 30th National Conference on Agricultural Marketing held at Department of Agricultural Economics, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi during October 20-22, 2016.
- Participated and presented a paper on “Performance of the National Agricultural Insurance Scheme in Gujarat” as poster presentation in International Conference on Food, Water, Energy Nexus in Arena of Climate organized by Anand Agriculture University, Anand on December 14-16, 2016.
- Attended the “Orientation Programme on Social Science Research” organized by and held at the Gujarat Institute of Development Research and Indian Council of Social Science Research (New Delhi), Ahmedabad during August 2-4, 2016.

Shri Thansingh Parihar

- Attended the Orientation Programme on Social Science Research organized by Gujarat Institute of Development Research (GIDR), Ahmedabad, Gujarat during August 2-4, 2016.
- Participated in the Two-day Training Programme for Young Entrepreneurs on “Export of Agricultural Products” Organized by Department of Agricultural Economics & WTO Cell, B. A. College of Agriculture, AAU, Anand.
- Participated at the national workshop on AERC Project “Study on the Causes of Farmers Suicide” ADRTC, ISEC Bangalore during October 20, 2016.

Shri Deep Patel

- Participated at the “International Symposium on Knowledge and Communication” at SVKM’s NMIMS (Deemed to be University), Dhule & Khon Kaen University, Khon Kaen, Thailand during 10 - 11 June, 2016.
- Participated at the “Professional Development Programme: Design and Development of Institutional Repository Using Dspace” at UGC-Human Resource Development Centre (HRDC), Sardar Patel University, Vallabh Vidyanagar during 03 -05 March, 2017.

Shri D. N. Thakkar

- Attended three days training programme on office administration in Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad during the period from 21.09.16 to 23.09.16.
- Attended training in Tally 9, organised by office through Anupam Mission, Mogri held on 02.06.2016 to 02.07.2016.

Shri Pinal J. Patel

- Attended three days training programme on office administration in Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad during the period from 21.09.16 to 23.09.16.
- Attended training in Tally 9, organised by office through Anupam Mission, Mogri held on 02.06.2016 to 02.07.2016

Shri Brijesh Pandya

- Participated in the National Workshop on Comprehensive Scheme for Studying the Cost of Cultivation of Principal Crops in India, organized by Directorate of Economics and Statistics, Government of India, New Delhi at Department of Agricultural Economics, CARDS, Tamil Nadu Agricultural University, Coimbatore during 18 – 20 January, 2017.

Shri Hemal Padhiyar

- Participated in two day training programme on “Export of Agricultural Product” organized by B A college of agriculture , Anand Agriculture University, during 29-30 November,2016.

Shri Hitesh Makwana

- Participated in National Workshop organized by Ministry of Agriculture, Govt. of India at Odisha University of Agricultural & Technology, Bhubaneswar, Odisha during October, 14th to 16th 2016.

Shri Vishal Chudasama

- Participated in two day training programme on “Export of Agricultural Product” organized by B A college of agriculture, Anand Agriculture University, during 29-30 November, 2016.

Shri Bhavesh M. Solanki

- Attended training in Tally 9, organized by the office through Anupam Mission, Mogri held on 02.06.2016 to 02.07.2016.

Ms. Renuka J. Machhi

- Attended training in Tally 9, organized by the office through Anupam Mission, Mogri held on 02.06.2016 to 02.07.2016.

Ms. Kena H. Patel

- Attended training in Tally 9, organized by the office through Anupam Mission, Mogri held on 02.06.2016 to 02.07.2016.

Mrs. Nishita J. Trivedi

- Attended training in Tally 9, organised by office through Anupam Mission, Mogri held on 02.06.2016 to 02.07.2016.



MIDH Rajasthan field visits

ACADEMIC EVENTS AND VISITORS AT THE CENTRE

- **AERC Foundation Day Lecture 2016**

AERC celebrated its 55th Foundation Day on July 01, 2016. AERC Foundation Lecture 2016 was delivered by Dr. S. S. Acharya, Dr. S. S. Acharya, Former Chairman, Commission for Agricultural Cost and Prices, Govt. of India has delivered AERC Foundation Day Lecture 2016 on “Agriculture Price Policy in India : Some Facts, Issues and Concerns”.



Dr. Harish Padh, Vice Chancellor of our University felicitating Dr. S. S. Acharya on July 1, 2016



Distinguished Audience at AERC Foundation Day Lecture on July 1, 2016



Dr. S.S. Acharya delivering AERC Foundation Day Lecture on July 1, 2016

- **Workshop cum Training Programme for the Technical/Field Staff of CCS Gujarat**

The Cost of Cultivation Scheme (CCS) for Gujarat had organized three days Training Workshop on “Field Data Collection and Data Imputing in New Record Types (RTs) & FARMAP 2.0 Computer Software”, for the technical/field staff of CCS at the Centre from June 29, 2016 to July 2, 2016.



Dr. S.S. Kalamkar (Director) felicitating Dr. K. B. Kathiria, Director of Research & Dean PG Studies, Anand Agricultural University, Anand



Dr. K. B. Kathiria (Director of Research & Dean PG Studies, Anand Agricultural University, Anand) addressing the field staff of CCS



CCS staff at workshop

• **The 4th H. M. Patel Memorial Lecture**

With the help of generous endowment grant given by Dr. Mahesh Pathak (Former Professor and Head, Department of Economics; Former Honorary Director, AERC and presently Hon. Adviser, AERC), the H.M. Patel Memorial Lecture Series has been instituted in the year 2014. The Post Graduate Department of Economics and Agro-Economic Research Centre, H. M. Patel Institute of Rural Development, Sardar Patel

University, Vallabh Vidyanagar jointly organize this lecture every year.

Dr. Y. K. Alagh, Chancellor (Central University of Gujarat and Vice Chairman, Sardar Patel Institute of Economics & Social Research, Ahmedabad & Former Minister of Power, Planning Science and Technology, Govt. of India) delivered the 4th H.M. Patel Memorial Lecture on “Climate Change and Agriculture in Asia” on February 07, 2017.



Felicitation of Prof. Y. K. Alagh by Dr. Mahesh Pathak & presenting a book by Prof. H.P Trivedi and Dr. S.S. Kalamkar to Prof. Y. K. Alagh



Prof. Y. K. Alagh delivering the H. M. Patel Memorial Lecture



Distinguished audience at the Memorial Lecture

- **One Day Workshop on “How to write a Research Paper”**

Centre had organized jointly with Gujarat Economic Association one day workshop on “How to write a Research Paper” for college teachers and students on December 3, 2016 in Seminar Hall of the Centre. The workshop was a grand success. The said workshop met the objectives for which it was organized. All together, 125 participants including College and University teachers, students, staff of the Centre attended this workshop.



Dr. M. Patel (Dean, Faculty of Arts of our University) inaugurating the workshop



Dr. Yogesh Yadav & Dr. H. Patel addressing the participants.



Participants at the workshop

- **NAAC PEER TEAM visit on January 6, 2017**

Team of NAAC comprising of Prof. (Mrs.) Sanjuka Bhattacharya and Prof. C. R. Karisiddappa visited PG Department of Economics & Centre on January 6, 2017.



Presentation by PG Department of Economic & AERC followed by discussion with NAAC Team on January 06, 2017

- **Inauguration of Hydraulic Lift installed by the Centre**

On the occasion of celebration of 55th foundation day of Centre on July 1, 2016, Dr. Harish Padh, Vice-Chancellor of University inaugurated the Hydraulic Lift- installed at H. M. Patel Institute of Rural Development by Cost of Cultivation Scheme and Agro-Economic Research Centre, S. P. University, Vallabh Vidyanagar. The installation work was completed by M/s Metro Elevators Co. (P) Ltd, Ahmadabad.



- Blood Donation and Tree Plantation Programme**

On the occasion of celebration of 55th foundation day, Agro-Economic Research Centre, S. P. University, Vallabh Vidyanagar had organized a blood Donation Camp and Tree Plantation programme on July 1, 2016. In the morning session, Hon Vice Chancellor had planted tree in tree plantation programme and visited blood donation camp organized at the Centre. All together, 31 people had donated the blood and 25 trees were planted in and around campus.



- Shri N. K. Kathad, Joint Director of Agriculture (AC) and Shri P. N. Patel Asstt. Director of Agriculture, Directorate of Agriculture, Krishi Bhavan, Gandhinagar visited the Centre on 17.06.2016 and discussed the procedure adopted for implementation of cost of cultivation scheme in Gujarat.



- **Students Visit to the Centre**

Student of Banaras Hindu University (BHU), Varanasi visited the centre on 05.01.2017



- **IASRI & NSSO Officers Visit**

A meeting of officials of ICAR-IASRI, New Delhi, NSSO Ahmedabad and the staff of the Centre involved in IASRI CCE Pilot Project was held on 07.07.2016 in the seminar hall of the Centre (Study on “Pilot Study for developing state level estimates of crop area and production on the basis of sample sizes recommended by Prof. Vaidyanathan Committee Report”).



- **Other Visitors**

- Shri C. N. Patel, Dy. Director and Shri Dushyanat B. Diwan, Agriculture Officer, District Agriculture office visited for meeting for Pilot study for developing state level estimate of crop area and production on the basis of sample sizes recommended by Prof. Vaidyanathan Committee report for Gujarat State.
- Shri R. D. Patel, SSO and Shri J. J. Parmar, SSO, NSSO (FOD) visited on 07.07.2016 for meeting for Pilot study for developing state level estimate of crop area and production on the basis of sample sizes recommended by Prof. Vaidyanathan Committee report for Gujarat State.
- Dr. Muninsh Alagh, ICSSR, Senior Fellow, SPICER, Ahmedabad visited the Centre on 28.07.2016.
- Prof. Samar K Dutta, Former Chairman, Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad visited Centre on 10.01.2017.
- Dr. R. A. Sherathia, Director of Horticulture, Dept. of Horticulture, GoG, Shri Bharat Modi, Director of Agriculture (I/c) Dept. of Agri. and Coop. GoG, Gandhinagar and Dr. K. B. Kathiria, Director of Research & Dean, Faculty of P. G. Studies, Anand Agriculture University visited centre to attend AERC Governing Body meeting on 07.02.2017.



With Dr. S.S. Acharya (Former Chairman, CACP, GOI) on July 1, 2016



MIDH project field work



DETAILS OF FIELD VISITS FOR PROJECT WORK/CCS

Cost of Cultivation in Gujarat Selected CCS Village Clusters (block 2014-2017) as on March 31, 2017

Zone	Cls. No	District	Cluster	Village	Fieldman	Name of Field Supervisor
1	1	Tapi	Vyara	Kapura	Mistry A K	Shri A B Chaudhari
1	2	Navsari	Jalalpore	Chhinam	Machhi R S	Shri A B Chaudhari
2	3	Bharuch	Anklesvar	Sajod	B'bhatt Y D	Shri A B Chaudhari
2	4	Narmada	Nandod	Jior	Machhi S C	Shri. H U Padhilyar
3	5	Bharuch	Bharuch	Tralsa	Raj J S	Shri A B Chaudhari
3	6	Vadodara	Sankheda	Bhatpur	Patel N P	Shri. H U Padhilyar
3	7	Vadodara	Dabhoi	Vanadra	Patel J J	Shri. H U Padhilyar
3	8	Dohad	Devgadbaria	Keliya	Bariya C G	Shri B P Pandya
3	9	Dohad	Limkheda	Dudhiya	Parekh T P	Shri B P Pandya
3	10	Dohad	Jhalod	Kadval	Pandya H M	Shri B P Pandya
3	11	Dohad	Fatepura	Madhva	Vaghela A D	Shri B P Pandya
3	12	Panch Mahals	Kadana	Sanghri	Sharma S J	Shri B P Pandya
4	13	Anand	Tarapur	Amaliyara	Patel H B	Shri H P Makwana
4	14	Kheda	Kapadvanj	Sorna	Velari P D	Shri. V C Chudasama
4	15	Kheda	Matar	Traj	Nai Uttam M	Shri H P Makwana
4	16	Kheda	Kheda	Rasikpura	Patel P C	Shri. H U Padhilyar
4	17	Ahmadabad	Sanand	Modasar	Parmar N. P	Shri A B Chaudhari
4	18	Ahmadabad	Detroj-Rampura	Nadishala	Patel P S	Shri. R I Patel
4	19	Gandhinagar	Mansa	Kharna	Karmata Sanjay H	Shri. V C Chudasama
4	20	Mahesana	Visnagar	Jetalvasana	Patel J K	Shri. R I Patel
4	21	Mahesana	Kadi	Vidaj	Patel Bharat K	Shri. R I Patel
4	22	Sabar Kantha	Vadali	Kesarganj	Prajapati A B	Shri. V C Chudasama
4	23	Sabar Kantha	Himatnagar	Akodra	Bhoi Vishnu B	Shri. V C Chudasama
4	24	Banas Kantha	Dhanera	Runi	Padhiyar S C	Shri. R I Patel
4	25	Banas Kantha	Deesa	Saviyana	Patel G A	Shri. R I Patel
5	26	Ahmadabad	Dholka	Shiyawada	Bhoi S C	Shri. H U Padhilyar
5	27	Bharuch	Vagra	Kalam	Vohra A I	Shri A B Chaudhari
5	28	Surendranagar	Limbdi	Pandri	Tadvi Kamlesh P	Shri H P Makwana
6	29	Junagadh	Sutrapada	Ghantiya	Chaudhariy V H	Shri. H U Padhilyar
6	30	Junagadh	Visavadar	Ratang	Parmar M S	Shri. H U Padhilyar
6	31	Junagadh	Mangrol	Divrana	Singhada M N	Shri. H U Padhilyar
6	32	Junagadh	Talala	Amblash	Sherathiya A J	Shri. H U Padhilyar
6	33	Junagadh	Manavadar	Sanosra	Patel J N	Shri. H U Padhilyar
6	34	Amreli	Savar Kundla	Kanatalav	Patel Bhadres R	Shri B P Pandya
6	35	Amreli	Lathi	Chavand	Parmar S B	Shri B P Pandya
6	36	Amreli	Babra	Amarvalpar	Rathava Vijay C	Shri B P Pandya
6	37	Amreli	Kunkavav Vadia	Amrapur	Patel G B	Shri B P Pandya



Zone	Cls. No	District	Cluster	Village	Fieldman	Name of Field Supervisor
6	38	Bhavnagar	Ghogha	Lakhanka	Panchal S A	Shri H P Makwana
6	39	Rajkot	Gondal	Patidad	Bhoi H D	Shri H P Makwana
6	40	Rajkot	Jetpur	Juni Sankali	Makwana P M	Shri H P Makwana
7	41	Rajkot	Jasdan	Madhavipur	Baldha K M	Shri B P Pandya
7	42	Rajkot	Morvi	Nichi Mandal	Chauhan J D	Shri H P Makwana
7	43	Rajkot	Tankara	Bedi	Vanvi D D	Shri H P Makwana
7	44	Jamnagar	Kalavad	Jashapar	Vaghela D S	Shri. V C Chudasama
7	45	Jamnagar	Jodiya	Lakhatar	Rabadiya A B	Shri. V C Chudasama
7	46	Jamnagar	Dhrol	Vankiya	Patel B M	Shri. V C Chudasama
7	47	Jamnagar	Lalpur	Gajana	Patel Bhaskar K	Shri. V C Chudasama
7	48	Jamnagar	Khambhalia	Vinzalpar	Parmar K G	Shri. V C Chudasama
7	49	Jamnagar	Kalyanpur	Tankariya	Patel D G	Shri. V C Chudasama
7	50	Bhavnagar	Gadhada	Goradka	Patel J V	Shri H P Makwana
7	51	Bhavnagar	Umralla	Samadhiyala	Mobha B B	Shri H P Makwana
8	52	Surendranagar	Dasada	Jarvala	Prajapati B I	Shri. R I Patel
8	53	Surendranagar	Halvad	Nava Ghanshy-amgadh	Parmar Mahesh R	Shri A B Chaudhari
8	54	Ahmadabad	Viramgam	Thori Mubarak	Chauhan J D	Shri. R I Patel
8	55	Patan	Sami	Kukrana	Chaudhari S R	Shri. R I Patel
8	56	Banas Kantha	Bhabhar	Suthar Nesdi	Bhoraniya K J	Shri. R I Patel
8	57	Banas Kantha	Deodar	Raiya	Dabhi L C	Shri. R I Patel
8	58	Kachchh	Abdasa	Kothara	Patel R B	Shri A B Chaudhari
8	59	Kachchh	Bhachau	Manfara	Bhoi Sanjay V	Shri A B Chaudhari
8	60	Kachchh	Mundra	Moti Bhujpar	Vidja L S	Shri A B Chaudhari

Dr. S. S. Kalamkar

- Conducted cluster visit on 16.05.2016 - village Sorna, Ta. Kapadvanj, Dist. Kheda, Cluster No. 14, Zone 4 (North Gujarat).
- Conducted clusters visit during July 11-13, 2016-Cluster visit CCS 05- -Panchamala/Godhra.
- Conducted cluster visit on 07.10.2016: village Kukrana, Smai, Patan- Cluster No. 55.
- Conducted cluster group meeting on 08.10.2016 at Rajkot- CNO 40 (Juni Sankadi, Jetpur), 41 (Madhavipur, Jasadan), 42 (Bedi, Rajkot), 45 (Lakhatar, Jodia, Jamnagar).
- Conducted clusters visit during on 26.11.2016 to 27.11.2016- CCE Vilages- Lundawada, Lalsar village, Ankalwa village, Simalia, Vaniyavala Gorada Bhuakhantni Muvada Godhara Khuntkhar village Chari Balujina Muvada.
- Conducted clusters visit on 04.12.2016- Memadabad-Kheda 2 villages- Sihuj village, Nizampur village.



Dr. M. Swain

- Visited Bikaner and Jalore districts of Rajasthan during 11th May 2016 to 18th May 2016 for field survey on Working of PINS in Rajasthan.
- Visited Mehsana, Patan and Gandhinagar districts of Gujarat during 21st May 2016 to 24th May 2016 for the field survey for Study on Working of PINS in Gujarat.
- Visited Shajapur district of Madhya Pradesh during 25th December to 27th December 2016 for the field survey for Impact Evaluation Study on National Horticulture Mission in Madhya Pradesh.

Dr. H. Sharma

Sr. No.	Project	Date Of Visits	Districts	Talukas
1	Dairy- Gujarat	07-04-2016 to 13-04-2016	Junagarh And Bharuch	Keshod, Nanavadar, Bharuch, Wagara
2	Dairy- Rajasthan	15-04-2016 to 26-04-2016,	Hanumangarh And Dholpur	Hanumangarh, Sangria, Pilibanga, Dhopur, Sepau
3	PINS- Rajasthan	11-05-2016 to 23-05-2016, & 05-06-2016 to 07-06-2016	Bikaner, Jalore, Barmer	Bikaner, Pugal, Bijju, Chitalwana, Gudamalani
4	IASRI CCE Project	04-12-2016 to 05-12-2016	Banaskantha	Tharad, Vav, Bhabhar
		28-11-2016 to 29-11-2016	Sabarkantha, Aravalli	Meghraj, Ider, Talod, Himmatnagar
		04-02-2017	Gandhinagar	Mansa, Others
		06-02-2017	Gandhinagar	Dehgam

Dr. S. R. Bhaiya

Conducted CCS Cluster Surprise Visits as follows:

Zone	Cl.No.	Village	Visited on
3	10	Kadval	10.8.16
3	11	Madhva	10.8.16
4	22	Kesarganj	20.12.16
4	23	Akodra	20.12.16
4	19	Kharna	21.12.16
6	29	Ghantiya	25.01.2017 ICAR
7	50	Goradka	25.11.16 CACP
6	37	Amrapur	26.11.16
6	35	Chavand	26.11.16 CACP
6	36	Amarvalpar	26.11.16 CACP
7	44	Jashapar	29.7.2016

Zone	Cl.No.	Village	Visited on
7	47	Gajana	29.7.2016
7	48	Vinzalpar	29.7.2016
7	49	Tankariya	29.7.2016
6	30	Ratang	30.7.2016
6	39	Patidad	30.7.2016
6	40	Juni Sankali	30.7.2016
7	41	Madhavipur	30.7.2016
4	25	Saviyana	7.10.16
8	55	Kukrana	7.10.16
2	4	Jior	9.8.16
3	6	Bhatpur	9.8.16



Shri Brijesh Pandya

Zone	Cl. No.	Cluster	Visit I	Visit II	Visit III	Visit IV	Visit V
3	8	Devgadhbariya	2,3/05/16	25,26/10/16	2,3/01/17	-	-
3	9	Limkheda	4/05/16	23,24/10/16	4,5/01/17	-	-
3	10	Zalod	5/05/16	21,22/10/16	6,7/01/17	-	-
3	11	Fatehpura	19,20/10/16	8,9/01/17		-	-
3	12	Kadana	6/05/16	17,18/10/16	10/01/17	-	-
6	34	Savarkundla	17/06/16	26,27/03/17		-	-
6	35	Lathi	15/06/16	08/08/16	26/11/16	20,21/03/17	-
6	36	Babra	14/06/16	26/11/16	22,23/03/17	-	-
6	37	Kunkavav	16/06/16	26/11/16	24,25/03/17	-	-
7	41	Jasdan	13/06/16	08/08/16	28,29/03/17	-	-
1	1	Vyara	13,14/04/16		-	-	-
1	2	Navsari	15,16/04/16	12/07/16	-	-	-
5	27	Vagra	11,12/04/16	11/07/16	-	-	-
4	20	Visnagar	5,6,7/12/16	-	-	-	-
4	24	Dhanera	8,9,10/12/16	-	-	-	-
4	25	Deesa	11,12,13/12/16	-	-	-	-
8	56	Bhabhar	14,15,16/12/16	-	-	-	-
8	57	Diyodar	17,18,19/12/16	-	-	-	-
7	50	Gadhda	08/08/2016	25/11/16	-	-	-
3	5	Bharuch	11/07/2016	-	-	-	-

Shri Hitesh Makwana

Zone	Cl. No.	Cluster	Visit I	Visit II	Visit III	Visit IV
4	13	Tarapur	7/5/16	26-27/8/16	23-24/10/16	16-17/1/17
4	15	Matar	8/5/16	24-25/8/16	25-26/10/16	18-19/1/17
5	28	Limdi	22-23/8/16	-	-	-
6	38	Ghogha	6/5/16	17-18/10/16	24-25/1/17	-
6	39	Gondal	15/6/16	-	-	-
6	40	Jetpur	16/6/16	-	-	-
7	42	Morbi	13-14 /4/16	22-23/3/76	-	-
7	43	Rajkot	14/6/16		-	-
7	50	Gadhada	4/5/16	21-22/10/16	20-21/1/17	-
7	51	Umarala	5/5/16	19-20/10/16	22-23/1/17	-
8	53	Halvad	11-12/4/16	-	-	-
8	59	Bhachau	15-16/4/16	-	-	-
8	44	Kalavad	5,6/12/16	-	-	-
8	47	Lalpur	8,9,10/12/16	-	-	-
8	45	Jodiya	11,12,13/12/16	-	-	-
8	48	Khambhadiya	14,15,16/12/16	-	-	-
8	49	Kalyanpur	17,18,19/12/16	-	-	-



Shri Hemal Padhiyar

Zone	Cl. No.	Cluster	Visit I	Visit II	Visit III	Visit IV
2	04	Nadod	5/5/16	13/6/16	17,18/10/16	03,04/1/17
3	06	Sankheda	Medical Leave	Medical Leave	19,20/10/16	05,06 /1/17
3	07	Dabhoi	6 /5/16	14 /6/16	21,22/10/16	07,08 /1/17
4	16	Kheda	7/5/16	25,26/10/16	-	-
5	26	Dholka	12 /5/16	23,24/10/16	-	-
6	29	Sutrapada	16/7/16	21/6/16	25 /1/17	-
6	30	Visavadar	17/7/16	22 /6/16	-	-
6	31	Mangrol	15J/7/16	23 /6/16	-	-
6	32	Talala	12 /7/16	22/6/16	-	-
6	33	Manavadar	13,14/7/16	24/6/16	-	-
3	03	Akleswar	18,19/4/16	16/6/16	-	-
3	05	Bharuch	11,12/4/16	15/6/16	-	-
4	17	Sanand	10,11,30/6/16	-	-	-
5	28	Limbdi	11/7/16	30 /7/16	-	-
7	46	Dhrol	12/7/16	17,19,20,29/12/16	-	-
7	47	Lalpur	13/7/16	29 /7/16	-	-
7	48	Khambhaliya	15/7/16	29 /7/16	-	-
7	49	Kalyanpur	16/7/16	29 /7/16	-	-
7	44	Kalawad	29/7/16	30 /7/16	-	-
7	41	Jasdan	30/7/16	30 /7/16	-	-
6	39	Gondal	30/7/16	30 /7/16	-	-
6	40	Jetpur	30/7/16	30 /7/16	-	-
8	53	Halvad	14,15,16/12/16	-	-	-
8	58	Abdasa	05,06,07/12/16	-	-	-
8	59	Bhachau	10,11,12/12/16	-	-	-
8	60	Mundra	08,09,10/12/16	-	-	-

Shri Vishal Chudasama

Zone	Cl.No.	Cluster	Visit I	Visit II	Visit III	Visit IV
4	14	Kapadvanj	5/5/16	16/6/16	23,24/10/16	9,10/1/17
4	19	Mansa	4/5/16	15/6/16	21,22/10/16	7,8/1/17
4	22	Vadali	3/5/16	14/6/16	17,18/10/16	3,4/1/17
4	23	Himatnagar	2/5/16	17/6/16	19,20/10/16	5,6/1/17
7	44	Kalavad	18/7/16	30,31/3/17	-	-
7	45	Jodia	16/7/16	25/1/17	26,27/3/17	-
7	46	Dhrol	17/7/16	25/1/17	28,29/3/17	-
7	47	Lalpur	15/7/16	24,25/3/17	-	-
7	48	Khambhalia	12/7/16	22,23/3/17	-	-
7	49	Kalyanpur	13,14/7/16	20,21/3/17	-	-
3	6	Dabhoi	9/8/16	-	-	-
3	7	Sankheda	9/8/16	-	-	-



2	4	Nanadod	9/8/16	-	-	-
6	34	Saverkundla	5,6,7/12/16	-	-	-
6	35	Babra	8,9,10/12/16	-	-	-
6	36	Lathi	11,12,13/12/16	-	-	--
6	37	Kunkavav	14,15,16/12/16	-	-	-
6	41	Jasdan	17,18,19/12/16	-	-	-
4	60	Mundra	11,12/04/16	-	-	-
4	58	Abdasa	13,14/04/16	-	-	-

Shri Atishesh Chaudhary

Zone	Cl. No.	Cluster	Visit I	Visit II	Visit III	Visit IV
1	1	Viyara	23-24/10/16	18-19/1/17	-	-
1	2	Jalalpore	21-22/10/16	16-17/1/17	-	-
2	3	Ankleshwar	19-20/10/16	13/1/17	-	-
3	5	Bharuch	17-18/10/16	11-12/1/17	-	-
4	17	Sanand	10-11/5/16	26,27,28/3/17	-	-
5	27	Vagara	25-26/10/16	9-10/1/17	-	-
8	53	Halvad	24-25/3/16	-	-	-
8	58	Abdasa	20-21/3/16	-	-	-
8	59	Bhachau	22-23/3/16	-	-	-
8	60	Mundra	18-19/3/16	-	-	-
4	18	Detroj	15/5/16	-	-	-
4	20	Visnagar	11-12/7/16	-	-	-
4	21	Kadi	14/5/16	-	-	-
4	24	Dhanera	7/4/16	14-15/7/16	-	-
4	25	Dessa	8/4/16	13/7/16	-	-
8	52	Dasada	13/5/16	-	-	-
8	54	Viramgam	12/5/16	-	-	-
8	55	Sami	9/4/16	19-20/7/16	-	-
8	56	Bhabhar	4-5/4/16	16 /7/16	-	-
8	57	Deodar	6/4/16	17-18 /7/16	-	-
6	29	Sutrapada	5-6-7/12/16	-	-	-
6	30	Visavdar	22-23-24/12/16	-	-	-
6	31	Mangrol	11-12-13/12/16	-	-	-
6	32	Talala	8-9-10 /12/16	-	-	-
6	33	Manavdar	19-20-21/12/16	-	-	-



Research Team Visits to field

Sr. No	Project title	Field Team	Duration of Visit	Name of Villages/ Places of Visit
1	Assessment of the Status of Dairying and Potential to Improve Socio-Economic status of the Milk Producers and Convergence of all Central and State Schemes at District level in Selected States of India- Gujarat State	Dr. Hemant Sharma, Ms. Kalpana Kapadia, Shri T. B. Parihar	April 07-13, 2016	Selected villages Junagadh & Bharuch district of Gujarat.
		Shri Manish Makwana & Shri Manish Kant Ojha	April 08-15, 2016 & August 10, 2016	Selected villages Mehsana, Panchmahal & Dahod district of Gujarat.
2	Assessment of the Status of Dairying and Potential to Improve Socio-Economic status of the Milk Producers and Convergence of all Central and State Schemes at District level in Selected States of India- Rajasthan State	Dr. Hemant Sharma, Ms. Kalpana Kapadia, Shri T. B. Parihar, Ms. Rinku Rathod, Shri Hitesh Rohit & Shri Paresh D Rohit.	April 15- 26, 2016	Selected villages Hanumangarh & Dholpur, Sri Ganganagar, Bharatpur, Jaipur district of Rajasthan.
		Shri Manish Makwana, Shri Manish Kant Ojha, Shri N. G. Chauhan, Shri Jaswant Singh, Ms. Priyanka J. Patel, Shri Sagar Sharma & Ms. Jigisha Devani	April 20-29, 2016.	Selected villages Jalore & Ajmer district of Rajasthan.
3	Working of Pressurized Irrigation Network Systems (PINs) in Gujarat State.	Dr. M. Swain, Ms. Kalpana Kapadia, Shri T. B. Parihar	May 21, 2016	Selected Villages of Gandhinagar, Patan & Mehsana district of Gujarat.
4	Working of Pressurized Irrigation Network Systems (PINs) in Rajasthan State.	Dr. M. Swain, Dr. Hemant Sharma, Shri Manish Kant Ojha, Shri Sagar Sharma, Shri Hitesh Rohit, Shri Paresh Rohit, Shri Faruq Vohra & Shri Jaswant Singh.	May 11-25, 2016 & June 05-07, 2016	Selected villages Bikaner, Jalore (Sanchore) & Barmer district of Rajasthan.
		Shri Manish Makwana	May 16-25, 2016 & June 05-07, 2016	Selected villages Jalore & Sanchore district of Rajasthan.
		Ms. Kalpana Kapadia	April 19, 2016	Selected villages Hanumangarh & Dholpur district of Rajasthan.



Sr. No	Project title	Field Team	Duration of Visit	Name of Villages/ Places of Visit
5	Farmers' Suicides in Gujarat	Shri T. B. Parihar, Shri Manish Makwana, Shri Manish Kant Ojha, Ms. Kalpana Kapadia, Shri Natvar Chauha, Ms. Rinku Rathod, Ms. Jigisha Devani, Shri Sagar Sharma & Shri Hitesh Rohit.	July 10-17, 2016	Selected Villages Porbandar, Surendranagar, Jamnagar & Devbhoomi Dwarka district of Gujarat.
		Shri Manish Kant Ojha & Shri Hitesh Rohit.	July 11-17, 2016.	Selected Villages Bhavnagar, Amreli & Panchmahal district of Gujarat.
		Ms. Kalpana Kapadia		Selected Villages Surat & Panchmahal district of Gujarat.
6	Impact Evaluation Study of National Horticulture Mission (NHM) in Gujarat State.	Dr. M. Swain	Dec. 25-27, 2017	Selected Samples Shajpur district of Madhya Pradesh.
		Shri Manish Makwana	Dec. 19-23, 2016	Selected Villages Bhavnagar district of Gujarat.
		Shri Manish Kant Ojha & Shri Jaswant Singh	Dec. 18-23, 2016	Selected Villages Jaipur & Tonk district of Rajasthan
		Ms. Kalpana Kapadia	Dec. 19, 2016	Selected Villages Vadodara district of Gujarat.
		Shri T. B. Parihar	Jan. 09-11, 2017.	MPKV Rahuri, Ahmednagar of Maharashtra & Selected villages of Jhalawad, Kota & Chittorgarh of Rajasthan.
7	Pilot study for developing state level estimates of crop area and production on the basis of sample size recommended by the professor Vaidyanathan Committee report.	Dr. Hemant Sharma, Shri Manish Makwana, Shri Rupesh Mistry & Shri Jaswant Singh, Shri Sagar Sharma	Dec. 04-05, 2016, Nov. 28-29, 2016 ; Feb. 4 & 6, 2017	Selected Villages Banaskantha, Sabarkantha, Arvalli, Gandhinagar district of Gujarat.
		Shri Manish Makwana	Dec. 04-05, 2016: Nov. 28-29, 2016.	Selected Villages Banaskantha, Sabarkantha, Arvalli, Gandhinagar district of Gujarat.



ADMINISTRATIVE ASSIGNMENT/S HANDLED (NAME OF THE POST HELD; DURATION, NATURE OF DUTIES, ETC.)

Dr. S. S. Kalamkar

- Honorary Director, Cost of Cultivation Scheme-w.e.f. July 5, 2012- Administrative work.
- Public Information Officer, AERC, S.P. University, Vallabh Vidyanagar since July 19, 2012.
- Public Information Officer, CCS, S.P. University, Vallabh Vidyanagar since July 19, 2012.
- Member, Advisory Committee, H.M. Patel Memorial Lecture, Sardar Patel University, Vallabh Vidyanagar since November 12, 2013.
- Court Cases handled: Contacting advocates, submitting the affidavits and appearing in the matter in court.
 - 25157 of 2007 in Hon High Court of Gujarat; 24111 of 2014 in Hon Supreme Court of India; 19893 of 2016 in Hon High Court of Gujarat.
- Pension Calculations:
 - As per the Hon HC Gujarat order dated 14.01.2014, the tentative calculations were got done from outside agency.
- Installation of Hydraulic Lift and Solar Power Plant:
 - Installed Hydraulic Lift and Solar Power Plan (3 KWH) at the Centre, with the support of funds received from the Ministry.
- Constituted the AERC 7th Pay Fixation Committee & meeting was held on September 15, 2016.
- Continued to perform as a 'Secretary' of 'Composition of Standing Administrative Affairs Committee of CCS, AERC, SPU, VVN.
- Continued to perform as a as 'The Secretary' for the 'Committee for Selection of Best Field man in Cost of Cultivation Scheme (CSBF)', CCS, AERC, SPU, VVN.
- Acted as a 'Secretary Member' for the AERC 7th Pay Fixation Committee for the fixation of pay of AERC and CCS non-teaching staff. (Ref. AERC1.19/333/2016 dated Sep 6, 2016).
- Continued to perform as a 'Member of Library Committee' for the Library of the Centre.
- Worked as a Officer In-charge of Centre when Director and RO are out of station and on leave.

Shri Manish Makwana

- Member of Committee for Investigation of date of birth for Shri D G Patel (AA, CCS) during 2016.

Shri D N Thakkar

- Honorary Office Superintendent, Cost of Cultivation Scheme - Administrative work.
- Asst. Public Information Officer, AERC, S.P. University, Vallabh Vidyanagar since July 19, 2012.

Shri Vinod D Parmar

- Assisted Hon. Director for Cost of Cultivation Scheme for the State of Gujarat.
- Frequently visited to the office of Shri R. M. Mehta sir, Retired Director of Pension & Provident Fund Dept., Ahmedabad for retired staff pension related documents and files and collecting the same as per Direction of Director.

Dr. M. Swain

- Worked as Officer In-Charge, AERC and CCS, as and when required, during the absence of Director, AERC.

Dr. S. R. Bhaiya

- Continued to perform as a 'Assistant Public Information Officer' in Cost of Cultivation Scheme, AERC, SPU, Vallabh Vidyanagar.



Farmers Suicide Study visit- Surat On July 13, 2016



Midh Project Work



IASRI Project Field visits

OTHER DISTINCTIVE FEATURE/IMPORTANT EVENTS

Appreciation letter

- Received appreciation letter from Madam Shaileja Sharma, Member Secretary, Commission for Agricultural Cost and Prices (CACP), MOA&FW, GOI dated December 6, 2016 for innovative steps taken for the development of positive work culture at office as well as field level.

Dr. S.S. Kalamkar

- Presentation made before a team from 'National Assessment and Accreditation Council (NAAC)', Bengaluru (Karnataka) during its visit to our University on January 6, 2017, by S.S. Kalamkar.

Dr. M Swain

- Coordinated RAWE (Rural Agricultural Work Experience) Programme at our Centre on 6th December 2016 wherein the students of Anand Agricultural University were given exposure regarding research activities related to Agricultural Economics conducted at our Centre, by M. Swain, S. R. Bhaiya and Hemant Sharma.

Dr. S. R. Bhaiya

- Participated in the "National Workshop" at ICAR, IASRI, Pusa, New Delhi for CCE project dated March 17-18, 2017.

- Attended the meeting on 'State level Consultation of Review of Horticulture and Allied Activity and Development of Roadmap for Doubling Farm Income, organized by State Horticulture Mission-Gujarat dated January 03, 2017.

Faculty Seminar:

- Faculty Seminar on "Solar Power Generation and Usage in Agriculture: A Study of Dhundi Solar Irrigation Cooperative in Gujarat, Western India", by Sonal Bhatt and S.S. Kalamkar on December 7, 2016.
- Faculty Seminar on 'Evaluation and Assessment of Economic Losses on Account of Inadequate Post-Harvest Infrastructure Facilities for Fisheries Sector in Gujarat State, by S. S. Kalamkar on 12.12.2016.
- Faculty Seminar on "Farmers' Suicides in Gujarat' delivered by S. S. Kalamkar at Centre on February 14, 2017.
- Faculty Seminar on 'Impact Assessment and Evaluation of Ration Balancing Program in Gujarat state' by S S Kalamkar on 20.02.2017.
- Organized One Day Workshop on "How to write a Research Paper" at the Centre on December 3, 2016.



Cluster visit at Diyadar, Village: Raiya on December 18, 2016 with the farmer no.8



Dr. Mrutunjay Swain and Dr. S. R. Bhaiya receiving the Dr. V.S. Vyas Best Research Report Award at the hands of Dr. Harish Padh, Vice Chancellor of University on July 1, 2016



PINS project field visit



GUIDANCE TO THE PH.D / M.PHIL STUDENTS

Dr. S. S. Kalamkar

- Ph.D. Thesis –PDC/Degree Awarded: 02
 - o Ph.D. Student (Registered at Gokhale Institute of Politics & Economics, Deemed University, Pune)– August 2016 (Mr. Varun Miglani).
 - o Ph.D. Student (Registered at Symbiosis International University, Pune) –submitted thesis for evaluation in July 2016 (Mrs. Raji Ajwani).
- Work in Progress- 06
 - o Registered with S.P. University, Vallabh Vidyanagar, Anand, Gujarat-Ph.D. (Economics) -03.
 - o Registered with S.P. University, Vallabh Vidyanagar, Anand, Gujarat-Ph.D. (Business Management) -03.

a) Subject: Economics

Sr. No.	Name Of The Candidate	Topic	Month & Year of Registration	Full / Part Time
1	Pawar Vandana K.	Agricultural Growth and Crop Diversification in Gujarat	September, 2014	Part Time
2	Yamuna Panicker	Challenges and Opportunities in Production and Marketing of Organic Agricultural Produce in India with special focus on Gujarat	December, 2014	Part Time
3	Shri Thansingh B. Parihar	Study of Agricultural Extension Services by Agri-Clinic and Agri Business Centres (ACABCS) Scheme in Maharashtra and Gujarat	March, 2016	Part Time

b) Subject: Management (MBA)

Sr. No.	Name of the Candidate	Topic	Month & Year of Registration	Full / Part Time
1	Ms. Mukti Patel	Understanding Attrition of Teachers in Private Schools of Anand District of Gujarat: Problems, Causes and Remedies	September, 2014	Part Time
2	Sanjiv Kumar	Livestock Feed Value Chain Analysis in Gujarat	September, 2014	Part Time
3	Aditya Gatne	Analysis of Supply Chain System and Export of Onion: A Study of Maharashtra and Gujarat	September, 2014	Part Time

Dr. M. Swain

Sr. No.	Name of the Candidate	Topic	Month & Year of Registration	Full / Part Time
1	Anjali Sureshbhai Trivedi	Financial Inclusion of Urban Women: A Study of Ahmedabad district in Gujarat	December, 2014	Part Time
2	Subrat Sahoo	Assessment of Vulnerability to Drought and Water Scarcity in Agriculture: Case of Drought Prone Areas in Gujarat	January - 2015	Part Time
3	Vaishaliben K. Makwana	Pattern and Determinants of Horticultural Development in Gujarat	December - 2014	Part Time
4	Kalpana Kapadia	Role of Crop Insurance in Agricultural Risk Management: Special Reference to NAIS in Gujarat	November - 2015	Part Time

Dr. S. R. Bhaiya

Sr. No.	Name of the Candidate	Topic	Month & Year of Registration	Full / Part Time
1	Shri Hiteshkumar P. Makwana	A Study of National Food Security Mission in Gujarat	December, 2014	Part Time
2	Shri Hemal U. Padhiyar	The Trends in Cost of Cultivation of Principal Crops in Gujarat	August, 2015	Part Time
3	Shri. Sunil D. Rajput*	An Economic Evaluation of MGNREGA in Gujarat State (A case study of Anand District)	August, 2016	Part Time
4	Shri. Rajesh J. Parmar*	The Problems of Workers in AGATE Industry in Khemby in Gujarat	August, 2016	Part Time



PINS project field visit

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

• Dr. V.S. Vyas Prize:

Prof. V S Vyas Prize award for the 'Best Research Report - Estimation of Changes in Income and Cost of Production owing to Changes in Inputs and Hybrid Seeds for Major Crops of Gujarat (Sponsored by Directorate of Economics and Statistics, Govt. of Gujarat, Gandhinagar, Report completed in 2014 & published in 2015) – by S. S. Kalamkar, Mrutunjay Swain, S. R. Bhaiya, Published by Agro Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, Gujarat, Year 2015 (Ref : SPU. Notification no. G/22-G/1812, dated June 24, 2016) (received on July 1, 2016, 55th AERC Foundation day, SPU)

• Best Fieldman Award: Shri H. M. Pandya

Dr. S. S. Kalamkar

- Worked as a Member, Smart Village Scheme- Anand district, Government of Gujarat (since April 7, 2016).

- Worked as a Member of Executive Council of Gujarat Economic Association (GEA), Anand.
- Worked as a Member, Board of Governors, India Natural Resource Economics and Management (INREM) Foundation, Anand 388001, Gujarat (since August 2014).
- Worked as a Member, Expert Committee on Minimum Support Prices, Directorate of Agriculture, Government of Gujarat (Ex-Officio Member) (since July 5, 2012).
- Member, Advisory Board, Artha Vikas (ISSN: 0004-3567) (Biannual Journal of Economics, Department of Economics, S P University, Vallabh Vidyanagar) (since 2014).
- 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.



MIDH Rajasthan field visits



Shri B. U. Parmar, Joint Director Agriculture (Horticulture), Govt of Gujarat delivered lecture to CCS Workshop on June 30, 2016



AERC publication display at N.S. Patel Arts College, Anand on January 11, 2017



PROFESIONAL AFFILIATION

Dr. S. S. Kalamkar

- Indian Society of Agricultural Economics (ISAE), Mumbai (Life Member)
- Indian Society of Agricultural Marketing (ISAM), Nagpur (Life Member)
- The Indian Economic Association (IEA), New Delhi (Life Member)
- Agricultural Economic Research Association (AERA), New Delhi (Life Member)
- Maharashtra Society of Agricultural Economics (MSAE), Pune (Life Member)
- Economic & Political Weekly Research Foundation (EPWRF), Mumbai (Annual Member),
- Association of Asian Scholars (AAS), New Delhi (Associate Membership)
- Indian Society of Agricultural Development And Policy, Ludhiana (Life Member)
- Indian Society for Studies in Cooperation (Life Member)
- Gujarat Economic Association (Life Member)
- India Natural Resource Economics and Management Foundation (INREM), Anand (Life Member).
- Society of Economics and Development, Ludhiana, Punjab (Life member)
- Member of the Editorial Board, Journal of Asian Development, an international journal published by Macrothink Institute, Las Vegas, USA.
- Subject Editor, Agricultural Production & Market Outlook, Monthly Newsletter of AERC, S.P. University, Vallabh Vidyanagar
- 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 of Agricultural Economics
- Life Member, Indian Economic Association
- Member, South Asian Network for Development and Environment Economics
- Member, Indian Climate Research Network
- Reviewer of the research journals
- World Development, published by Elsevier
- Disasters, The journal of Overseas Development Institute, London and published by Wiley-Blackwell
- Natural Hazards, published by Springer
- International Journal of Disaster Risk Reduction, published by Elsevier
- Development in Practice, international journal by Taylor and Francis (Routledge)

Dr. M. Swain

- Member of the Editorial Board, Sustainable Agriculture Research, an international journal published by Canadian Center of Science and Education, Toronto.
- Member of the Editorial Board, Quarterly Journal of Econometrics Review, Pak Publishing Group, Punjab, Pakistan.
- Sustainable Agriculture Research, an international journal published by Canadian Center of Science and Education, Toronto
- International Journal of Agriculture Sciences, Bioinfo Publication
- Journal of Asian Development, A double blind referred international journal of Micro Think Institute, Las Vegas, USA



- Quarterly Journal of Econometrics Research, Pak Publishing Group, Punjab.
- Journal of Agricultural Economics and Development, published by Academic Research Journals
- IGI Global, a USA (Pennsylvania) based book publisher
- Artha Vikas: Journal of Economic Development, Department of Economics, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India

Dr. S. R. Bhaiya

- Member, Vishleshan Magazine, Vishleshan Trust,
- Life Member, Gujarat Economic Association

Dr. Hemant Sharma

- Life time member of Journal of Agricultural Development and Policy
- Life time member of Rajasthan Journal of Extension Education
- Life time member of Indian Journal of Agricultural Marketing
- Life time member of Indian Journal of Agricultural Economics
- Indian Journal of Agricultural Research
- International Journal of Agricultural Economics and Statistics
- Journal of Research, PAU
- Indian Journal of Dairy Science
- Indian Journal of Agricultural Economics
- Indian Journal of Agricultural Economics and Development

- Journal of Progressive Agriculture
- Bioved Journal

Shri Manish Kant Ojha

- Life Member, Indian Society of Agricultural Economics, Mumbai.
- Life Member, Rajasthan Economic Association, Jaipur.

Shri Manish Makwana

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

Shri Deep K. Patel

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



CACP Western Region Meeting at Gandhinagar January 24, 2017



CACP Team Visit to Babra Taluka of Amreli district on November 26, 2016

MEETING OF GOVERNING BODY

The Governing Body of the Centre was held on February 07, 2017 in the seminar hall of Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar.

The following Members of GB were present in the meeting:

- Dr. S. S. Kulkarni, Vice Chancellor, Sardar Patel University, Vallabh Vidyanagar.
- Dr. V. S. Vyas, 396, Vasundhara Extension, Tonk Road, Jaipur.
- Dr. Y. K. Alagh, Surdhara, B/H, Goyal Intercity, Thaltej Road, Ahmedabad.
- Dr. Amrita Patel, Chrutar Arogya mandal, Gokal Nagar, Karamsad – 388 325.
- Dr. Tushaar Shah, IWMI, C/o INREM Foundation, Behind IRMA, Anand.
- Shri Sanjay Prasad, Principal Secretary, Dept. of Agriculture and Cooperation, Govt. of Gujarat, New Sachivalaya, Gandhinagar, Gujarat.
- Prof. Shabd Swaroop Acharya, Honorary Professor, IDS, Jaipur.
- Dr. Mahesh Pathak, Hon. Adviser, AERC, SPU, VVN.
- Dr. H. P. Trivedi, Prof. & Head, P. G Department of Economics, SPU, VVN.
- Dr. S. S. Kalamkar, Director, AERC, SPU, VVN.





Solar special Project field visit to Dundi village



RESEARCH SUPPORT SERVICES

A) Library:

- Agricultural Economics Research Review
- Agriculture Today
- Artha Vikas
- Bhumi Putra
- Cyber Safar (Gujarati)
- Down to Earth
- Economic & Political Weekly
- Indian Farming (English)
- Indian Horticulture (English)
- Indian Journal of Agricultural Economics
- Indian Journal of Agricultural Marketing
- Indian Journal of Economics and Development
- Indian Journal of Fertiliser
- India Today
- Journal of Rural Development
- Kurukshetra (English)
- Latest Facts in General Knowledge (Gujarati)
- Millennial Asia
- PC Quest
- The Economist
- The Indian Journal of Agricultural Sciences (English)
- The Indian Journal of Animal Sciences (English)
- University News
- Yojana (Gujarati)
- Yojana (English)

Gift:

- Agricultural Situation in India
- Krushi Govidya

Online dataset subscribed:

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

Books Purchased: 2016-17: AERC	: 35
CCS	: 21
Total	: 56
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Shri Deep K. Patel

- Publication and Circulation incharge

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.

Shri Rupesh Mistry

- Handling seminar Hall and all technical equipments.

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.

Shri Thansingh Parihar

- Handling all Laptops, Tablets, Cameras, etc.

Shri J N Singh

- Handling all Data Cards and related equipments.



Meeting with Hon. Shri Parshottam Khodabhai Rupala, Union Minister of State for Agriculture & Farmers Welfare, New Delhi at Knowledge School, Vallabh Vidyanagar on February 23, 2017



Meeting with Hon. Shri Parshottam Khodabhai Rupala, Union Minister of State for Agriculture & Farmers Welfare, New Delhi at his office in Krishi Bhavan, New Delhi on March 16, 2017



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 10/1, Gandhinagar 382 or his /her nominee
4) The Commissioner of Agriculture, Rajasthan State, Department of Agriculture, Pant Krishi Bhawan, jaipur or his/her nominee
5) The Director of Agriculture, Directorate of Economics and Statistics, Government of Gujarat, Gandhinagar, Gujarat or his/her nominee.
6) Head, Department of Agricultural Economics, B A College of Agriculture, AAU
7) Representative of National Dairy Development Board (NDDB), Anand
8) Representative of National Bank for Agriculture and Rural Development (NABARD), Ahmedabad
9) Head, P G Department of Economics, SPU, Vallabh Vidyanagar.
10) Director, AERC, Vallabh Vidyanagar.

Standing Administrative Affairs Committee of CCS

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

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

Public Information Officers

AERC and CCS, Sardar Patel University, Vallabh Vidyanagar

Agro-Economic Research Centre

Appellate Public Information Officer (APIO)	Hon. Vice Chancellor and Chairman, Governing Body, AERC Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
Public Information Officer (PIO)	Director Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat
Assistant Public Information Officer (Assit. PIO)	Office Superintendent Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar 388120, Anand, Gujarat

Cost of Cultivation Scheme

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



Field Visit-PINS in Rajasthan



APPOINTMENTS, RETIREMENT, RESIGNATION & EXPIRED ETC.

AERC Staff	Post	Date
<i>Joined</i>		
Shri Rahul K Rathod*	Research Assistant	28.07.2016
Shri Mahesh C Thakor*	Research Assistant	29.07.2016
<i>Resigned</i>		
Priyanka J Patel*	Research Assistant	08.06.2017
Paresh D. Rohit*	Research Assistant	30.06.2016
<i>Contract Completion</i>		
Shri Nathvar G. Chauhan*	Research Fellow	18.01.2017
Ms. Rinku Rathod*	Research Fellow	18.01.2017

* Indicate temporary/ad-hoc post.

CCS Staff	Post	Date
<i>Joined</i>		
Ms. Jigisha Devani*	Research Assistant	01.04.2016
Shri Hitesh R Rohit*	Research Assistant	04.04.2016
Ms. Renuka Machhi*	Jr. Clerk/Typist	19.05.2016
Ms. Kena H. Patel*	Jr. Clerk/Typist	01.06.2016
Shri S. V Bhoi	Field Man	01.06.2016
Ms. Nishita J Trivedi*	Add. Jr. Clerk/Typist	06.06.2016
Shri N. P. Parmar	Field Man	10.06.2016
Shri K. P. Tadvi	Field Man	15.06.2016
Shri U. M. Nai	Field Man	15.06.2016
<i>Resigned</i>		
Shri A B. Solanki	Field Man	15.04.2016
Shri R. K. Prajapati	Field Man	15.04.2016
Shri Mikin S Patel*	Computer	09.06.2016
Shri Hitesh R Rohit*	Research Assistant	27.01.2017
<i>Retired</i>		
Shri S I Patel	Agriculture Assistant	14.06.2016
Shri M. O. Trivedi	Agriculture Assistant	14.06.2016
Shri Y. D. Brahmhatt	Agriculture Assistant	31.10.2016
<i>Expired</i>		
Shri B. I. Prajapati	Agriculture Assistant	11.10.2016

* Indicate temporary/ad-hoc post.



MIDH Maharashtra Field

INFRASTRUCTURE

The Centre is located at the H.M. Patel Institute of Rural Development, Opp. Nanadalaya Temple, Sardar Patel University, Vallabh Vidyanagar 388120. In the same building, Department of Economics is housed on ground and first floor while AERC and CCS are working from second floor of the same building. (Purchase of items in Financial Year i.e. April 2016 to March 2017).

AERC:

During the year 2016-17, the following equipments/hardware/software/office materials were purchased from the grant-in-aid received: (1) HIK HD IR Done Camera, (2) STATA/IC-14 Edi/ Volume license (3) HIK Vision IP Bullet Camera & Scandisk 64 GB Micro SD card, (4) Ball 4 part USB.

CCS:

During the year 2016-17, the following equipments/hardware/software/office materials were purchased from the grant-in-aid received: (1) Ahuja Delegate Unit Model (MD-4200) -1, (2) CCTV Cable, 3 HIK-Vision HP IR Done Camera & HIK-Vision HD IR Bullet Camera - 1, (3) HIK Vision 8 Channel HD DVR, (4) W/D 1 TB USB Hard Drive -2, (5) 8-GB USB Pen Drive -10, (6) STATA/IC-14 Edi/ Volume license (7) Logitech USB Mouse – 06.



Field operations observed by Fieldsman



Farewell to Retired Staff



Fieldman visit to village cluster



STAFF MEMBERS AS ON MARCH 31, 2017

AERC STAFF:

Sr. No.	Name	Designation
1	Dr. Mahesh Pathak	Hon. Adviser
2	Dr. S. S. Kalamkar	Director and Professor
3	Vacant	Deputy Director/ Associate Professor
4	Dr. M. N. Swain	Research Officer (SS)/ Assistant Professor
5	Dr. Hemant Sharma	Research Officer/ Assistant Professor
6	Shri M. R. Ojha	Research Associate
7	Shri M C Makwana	Research Associate
8	Shri Kalpana Kapadia	Research Associate
9	Shri Thansingh Parihar	Research Associate
10	Shri Deep K Patel	Res. & Ref. Asstt. Lib.
11	Shri D.N. Thakkar	Office Superintendent
12	Shri Vinod D Parmar	P.A. to Director
13	Shri P. J. Patel	Account Assistant
14	Shri N. J. Amin	Jr. Clerk/Typist
15	Shri Sagar Sharma	Research Assistant*

COST OF CULTIVATION SCHEME

OFFICE STAFF

Sr. No.	Name	Designation
1	Dr. S. S. Kalamkar	Hon. Director
2	Dr S R Bhaiya	Field Officer
3	Shri G S Machhi	Asstt. Statistician
4	Shri R I Patel	Agri. Supervisor
5	Shri B P Pandya	Field Supervisor
6	Shri H P Makwana	Field Supervisor
7	Shri H U Padhiyar	Field Supervisor
8	Shri V C Chudasama	Field Supervisor
9	Shri A B Chaudhary	Field Supervisor

Sr. No.	Name	Designation
10	Shri B M Solanki	Jr.Clerk/Typ.*
11	Ms. R J Machhi	Jr.Clerk/Typ.*
12	Ms. K H Patel	Jr.Clerk/Typ.*
13	Ms. N J Trivedi	Jr.Clerk/Typ.*
14	J N Singh	Computer*
15	F G Vohra	Computer*
16	R C Mistry	Computer*
17	Ms. B N Patel	Computer*
18	M R Rana	Computer*
19	V C Harijan	Peon*
20	J G Devani	Research Assistant*



FIELD STAFF

Sr. No.	Name	Designation
21	J S Raj	Agriculture Assistant
22	P C Patel	Agriculture Assistant
23	C G Baria	Agriculture Assistant
24	G A Patel	Agriculture Assistant
25	A J Sherathiya	Agriculture Assistant
26	L S Vidja	Agriculture Assistant
27	J D Chauhan	Agriculture Assistant
28	A I Vora	Agriculture Assistant
29	G B Patel	Agriculture Assistant
30	B K Patel	Agriculture Assistant
31	A D Vaghela	Agriculture Assistant
32	J V Patel	Agriculture Assistant
33	Bharat K Patel	Agriculture Assistant
34	H M Pandya	Agriculture Assistant
35	D G Patel	Agriculture Assistant
36	M N Singala	Agriculture Assistant
37	S R Chaudhary	Agriculture Assistant
38	J K Patel	Agriculture Assistant
39	S B Parmar	Agriculture Assistant
40	J N Patel	Agriculture Assistant
41	S C Padhiyar	Agriculture Assistant
42	A K Mistry	Agriculture Assistant
43	S A Panchal	Agriculture Assistant
44	K J Bhoraniya	Agriculture Assistant
45	J D Chauhan	Agriculture Assistant
46	D D Vanvi	Field Man
47	P M Makwana	Field Man
48	M S Parmar	Field Man
49	S C Bhoi	Field Man

Sr. No.	Name	Designation
50	K M Baldha	Field Man
51	H B Patel	Field Man
52	P S Patel	Field Man
53	S C Machhi	Field Man
54	H D Bhoi	Field Man
55	D S Vaghela	Field Man
56	A P Rabadia	Field Man
57	A B Prajapaati	Field Man
58	V H Chaudhary	Field Man
59	R B Patel	Field Man
60	B M Patel	Field Man
61	B B Mobh	Field Man
62	T P Parekh	Field Man
63	Nirav P Patel	Field Man
64	B R Patel	Field Man
65	J J Patel	Field Man
66	R S Machhi	Field Man
67	L C Dabhi	Field Man
68	S J Sharma	Field Man
69	P D Velari	Field Man
70	K G Parmar	Field Man
71	V B Bhoi	Field Man
72	V C Rathava	Field Man
73	M R Parmar	Field Man
74	S H Karamata	Field Man
75	S V Bhoi	Field Man
76	N P Parmar	Field Man
77	K P Tadvi	Field Man
78	U M Nai	Field Man

Note: * adhoc/temporary positions

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 2016-17 is presented below. The audited utilization certificate is submitted to the granter in the first week of April, 2017.

AERC		Amount in Rs.
i) Unspent Balance as on April 1, 2016		23,07,409.18
ii) Grant-in-aid received during 2016-17		1,45,87,000.00
Total		1, 68,94,409.18
Total Expenditure during 2016-17		1,19,66,573.00
Unspent Balance as on March 31, 2017		49,27,836.18

CCS		Amount in Rs.
i) Unspent Balance as on April 1, 2016		1,05,75,467.37
ii) Grant-in-aid received during 2016-17		4,43,89,000.00
Total		5, 49, 64,467.37
Total Expenditure during 2016-17		4,15,07,026.00
Unspent Balance as on March 31, 2017		1, 34, 57,441.37



Crop Cutting Experiment- Rajkot



MIDH Maharashtra Field Visit





Audience at AERC Foundation day July 1, 2017



MIDH Project Work



Group photo with Dr. Shilija Sharma, Member Secretary, Commission for Agricultural Costs and Prices (CACPF), MoA & FW, GOI on November 25, 2016.



Group photo during Workshop cum Training Programme for Agriculture Assistant/Fieldmen in CCS on Data Collection and Data Inputting in New Record Types (RTs) & FARMAP Computer Software' on June 29, 2016.



Agro-Economic Research Centre

For the states of Gujarat and Rajasthan
(Ministry of Agriculture & Farmers Welfare, GOI)

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