

Government of Karnataka-ICRISAT **Initiatives**

Review and Planning Workshop Proceedings



CRÍSAT International Crops Research Institute neewith a human face for the Semi-Arid Tropics



Citation: Wani Suhas P, and Anantha KH. 2013. Government of Karnataka-ICRISAT Initiatives: Review and Planning Workshop Proceedings, 28 February to 2 March, 2013. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics (ICRISAT). 228 pp.

Acknowledgement

We sincerely acknowledge the financial support provided by the Government of Karnataka through Department of Agriculture and Government of India through RKVY. We also thank all the State Coordination Committee members and DoA staff for providing all the support for implementing Bhoochetana project. We sincerely acknowledge the contributions of all the consortium partners who have enabled us to put together the progress of the Bhoochetana contributions of farm facilitators, lead farmers and farmers are acknowledged. We thank Ms Shalini for editing the manuscript and Mr KNV Satyanarayana and Ms N Srilakshmi for incorporating the editorial corrections and communication office for page-setting the manuscript.

Organizing Committee

SP Wani (Chair) KH Anantha Girish Chander KNV Satyanarayana

Copyright© International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), 2013. All rights reserved.

The opinions expressed in this publication are those of the authors and not necessarily those of ICRISAT or Government of Karnataka. The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of ICRISAT or Government of Karnataka concerning the legal status of any country, territory, city, or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries. Where trade names are used this does not constitute endorsement of or discrimination against any product by ICRISAT or Government of Karnataka.

Government of Karnataka-ICRISAT Initiatives

Review and Planning Workshop Proceedings

28 February – 2 March 2013 ICRISAT, Patancheru, India

Editors Suhas P Wani and KH Anantha



Department of Agriculture Government of Karnataka Bengaluru, India



International Crops Research Institute for the Semi-Arid Tropics

Patancheru 502 324, Andhra Pradesh, India

2013

Contents

Background	. 5
Snap Shots of Workshop Deliberations	. 6
Inaugural Session	. 6
Technical Session	. 8
Concluding Session	15
Workshop Deliberations through Lens	17
Inaugural Session	17
Technical Session	20
Group Discussion	24
Field Visit	28
Group Photograph	30
Approved Proceedings	31
Proceedings of the Bhoochetana State Level	
Co-ordination Committee Meeting	31
Annexure-1: Roles and Responsibilities	37
List of Participants	39
PowerPoint Presentations	67

GoK-ICRISAT Initiatives

Review and Planning Workshop Proceedings

28 February – 2 March 2013

ICRISAT, Patancheru

PROGRAM

Thursday, 28 February 2013

0830–0930	Registration		
Session 1	Inaugural Ses	ssion	
0930–0935	Welcome		Peter Q Craufurd
0935–0945	A brief overview objectives of the	of GoK-ICRISAT initiative and workshop	Suhas P Wani
0945–0955	Overview of Bho	ochetana and GoK-CGIAR initiative	KV Sarvesh
0955–1005	Bhoochetana: W	/ay forward in Karnataka	V Chandrasekhar
1005–1015	Farmer-centric ir Government of H		Shankarlinge Gowda
1015–1025	GoK's innovative and CGIAR initiat	steps through Bhoochetana tive	Kaushik Mukherjee
1025–1035	Vision of Karnata	aka Krishi Mission	SA Patil
1035–1045	GoK-ICRISAT partnership for impact		KV Raju
1045–1100	Science-led inclusive oriented development in Karnataka V		WD Dar
1100–1115	Inaugural address by the Chief Guest		SV Ranganath
1115–1120	Release of public	cations	-
1120–1125	Memento presei	ntations to the guests	WD Dar
1125–1130 <i>1130–1200</i>	Vote of thanks Group photogra	oh and Health break	K Krishnappa
Session 2	Technical Ses	ssion I	
	Chair Rapporteur	KV Raju and Kaushik Mukherjee KH Anantha	
1200–1225 1225–1300 <i>1300–1400</i>		tive to improve rural livelihoods: acterization and proposed	Suhas P Wani

Session 3	Technical Session II: Detailed Work Planning	Facilitators

1400-1500	Group 1: Inputs mobilization including machineries		
	for benchmark sites	Siddaraju, Subbaiah	
	Group 2: Convergence and district coordinators	BK Dharmarajan	
	Group 3: Capacity building and awareness		
	enhancement	Shankarappa	
	Group 4: Interventions and demonstration	TK Prabhakara Setty	

Session 4 Special Session on Innovative Extension System (Innovative extension system by invitation)

ChairKV Raju and Kaushik MukherjeeRapporteurGirish Chander

- 1400–1415Private partnership for extension services:
Setting the sceneKaushik Mukherjee1415–1445Presentation by platform for Shared Values-PPPAnirban Ghosh1445–1500Presentation by ZuariYK Natesh
- 1500–1530 Discussions
- 1530–1600 Health break
- 1600–1630 Discussions

Session 5	Concluding Session		
	Chair	Kaushik Mukherjee	
	Rapporteur	KH Anantha	

Presentation of Group Reports

1630–1645	Group 1		
1645-1700	Group 2		
1700–1715	Group 3		
1715–1730	Group 4		
1730–1740	Chair's remarks	Kaushik Mukherj	ee
1740–1750	Chair's remarks	KV Raju	
1750–1755	Vote of thanks	K Krishnappa	
1755–1830	Free time (discussion for p	production of seed	for new cultivars)
1830-2000	Social get-together and er	ntertainment	205 Lawns
2000	Workshop Dinner		205 Lawns

Friday, 01 March 2013

Session 6Technical Session III: Bhoochetana 1 – What We have
Achieved and What We Missed

Rapporteur Girish Chander

0900–0905	Welcome	
0905–0920	Overview of Bhoochetana progress and learnings	Suhas P Wani
0920–0935	Challenges faced for mobilizing inputs and solutions	KV Sarvesh
0935–0950	Capturing data from crop cutting experiments	
	in state production	KV Raju

Secolor 7	Technical Secsion IV: Sharing of Experi	anaaa fram
1050–1100	Health break	
1005–1050	Discussions	
	workshop held at Belgaum on 28th Jan 2013	BK Dharmarajan
0950-1005	Recommendation of the BC2 Kharif plan	

Session 7 Technical Session IV: Sharing of Experiences from Districts: Innovations, Learnings and Challenges Chair Shankarlinge Gowda Rapporteur Mukund D Patil

Presentation by JDAs

1100–1115	JDA, Bidar
1115–1130	JDA, Bellary
1130–1145	JDA, Mysore

Presentation by ADAs

1145–1200 1200–1215 1215–1230 1230–1300 <i>1300–1400</i>	-	k, Koppal district luk, Mandya district aluk, Belgaum district	
Session 8	Technical Ses Program (BCM <i>Chair</i> <i>Rapporteur</i>	sion V: Bhoochetana Mission IP-BCIP) KV Raju Gajanan L Sawargaonkar	I
1400–1420 1420–1445 1445–1505 1505–1530		hoochetana II Challenges and opportunities Itivars seed introduction strategy	Suhas P Wani KV Sarvesh K Anandakrishna
Session 9	Technical Ses Chair Rapporteur	sion VI: Group Work BK Dharmarajan KH Anantha	
1530-1730	 Group 1: Inputs requirements Group 2: Capacity building: Innovative extension and awareness building Group 3: Documents and dissemination Group 4: Convergence to enhance impact and data recording Group 5: Climate change network (invited group meets for monitoring and evaluation, convergence, acceleration of space etc.,) Group 6: Seed Production Action Plan with special reference to new cultivars 		Subbaiah MA Shankar Krishna Naik BK Dharmarajan VS Prakash Siddaraju & Anandakrishna
1730–1930	Get-together and	experience sharing	IMOD Plaza

Saturday, 02 March 2013

0900–0915	Overview of the Day 2
0915–1030	Group reporting and discussion
1030–1100	Health break

Session 10 Technical Session VII Chair KV Sarvesh Rapporteur KL Sahrawat

- 1100–1300 District plan compilation and finalization, taluk-wise crops, areas, inputs, farm facilitators etc.
- 1300–1400 Lunch
- 1400–1500 Group presentation
- 1400–1410 Group 1: Inputs requirement
- 1410–1420 Group 2: Capacity building: Innovative extension and awareness building
- 1420–1430 Group 3: Documents and dissemination
- 1430–1445 Group 4: Convergence to enhance impact and data recording
- 1445–1500 Group 5: Climate change network
- 1500–1530 Health break

Session 11 Concluding Session

Chair	KV Raju
Rapporteur	K Krishnappa

1530–1545	Vision of agricultural development in Karnataka	
	through Bhoochetana II and CGIAR initiative	KV Sarvesh
1545–1555	Chair's remarks	KV Raju
1555–1600	Vote of thanks	KH Anantha

Background

Karnataka is the largest dryland agriculture state in the country with 60% of its population dependent on agriculture for their livelihoods. For improving the livelihoods of small farm holders in the state by increasing agricultural growth rate, Government of Karnataka launched in 2009 a mission program "Bhoochetana" for bridging the yield gaps through science-led interventions. The goal of this mission program is to increase average productivity of selected crops in the 30 districts by 20% in four years. The specific objectives are: (i) to identify and scale-up best-bet options (soil, crop and water management) including improved cultivars to enhance productivity by 20% of the selected crops in selected 24 (later extended to 30) districts; (ii) to train DoA staff in stratified soil sampling at villages, analysis of macro- and micronutrients, preparation of GIS-based soil maps; and (iii) to guide DoA to establish high-quality soil analytical laboratory at Bengaluru and to undertake stratified soil sampling, their analyses and sharing results in nine districts; and (iv) to build capacity of the stake holders (farmers and consortium partners) in the sustainable management of natural resources and enhancing productivity in dryland areas.

During the year 2012, a Review and Planning Workshop for the Bhoochetana and Government of Karnataka, a CGIAR initiative (Bhoochetana Plus) was held at ICRISAT during July 2012 at Patancheru. Based on the success of the Bhoochetana, during the last four years (2009-2012), Government of Karnataka has undertaken a holistic integrated systems approach for converging all sectors of agriculture namely rainfed agriculture, irrigated agriculture, horticulture, livestock, cooperation and marketing, for enhancing the incomes of the farmers with technical backstopping by ICRISAT-led consortium of eight CGIAR institutions. The institutions are International Water Management Institute (IWMI), International Livestock Research Institute (ILRI), International Rice Research Institute (IRRI), International Maize and Wheat Improvement Center (CIMMYT), International Center for Agricultural Research in the Dry Areas (ICARDA), The International Food Policy Research Institute (IFPRI), The World Agroforestry Centre (ICRAF). The World Vegetable Center (AVRDC), state agricultural and horticultural universities and different line departments of Government of Karnataka also partnered. This GoK-CGIAR initiative is referred as "Bhoochetana Plus". Following planning workshops in Bengaluru, Karnataka and Patancheru, Andhra Pradesh, detailed planning for four benchmark sites namely, Tumkur,

Raichur, Chikballapur and Bijapur was conducted along with Bhoochetana workshop. In all, 250 participants representing Department of Agriculture officials from 30 districts along with headquarter officials including Shri. SV Ranganth (CS), Shri. Kaushik Mukherjee (ACS&DC), Dr. KV Raju, Economic Advisor to Hon'ble CM, Shri. Shankarlinge Gowda, Principal Secretary (Ag&Hort), Shri. GVK Rau, Principal Secretary (Co-op), Shri. V Chandrasekhar, Commissioner (Ag), Dr. KV Sarvesh, Director (Ag) and Dr. SA Patil, Chairman, Karnataka Krishi Mission, district CEOs along with the representatives from DoA Karnataka, CGIAR institutes, AVRDC, State Universities, Corporates, NGOs, Farm Facilitators (FFs) and farmers participated in the workshop. The executive summary of Review and Planning workshop has been put together.

Snap Shots of Workshop Deliberations

Inaugural Session

During the three days Review and Planning meeting, the progress of GoK-CGIAR initiative during last one year and the Bhoochetana during the last four years along with detailed planning for the GoK-CGIAR initiative and Bhoochetana Mission Program (Bhoochetana II) were deliberated and finalized. The workshop reviewed key drivers of success and identified critical areas for building on earlier successes during the Bhoochetana II which included strategies to address climate related risks and improve livelihood.

- Dr Peter Craufurd welcomed the dignitaries (M/S. SV Ranganath, IAS, Chief Secretary, Kaushik Mukherji, IAS, Additional Chief Secretary & Development Commissioner, Dr. KV Raju, Economic Advisor to Hon. Chief Minister of Karnataka, M/S. Shankarlinge Gowda, IAS, Principal Secretary (Ag & Hort), GV Krishna Rau, IAS, Principal Secretary (Cooperation), V Chandrasekhar, IAS, Commissioner (Agriculture), Dr. KV Sarvesh, Director (Agriculture) and Dr SA Patil, Chairman, Karnataka Krishi Mission, district CEOs, JDAs and ADAs of all the districts, Farm Facilitators, representatives of SAUs, CGIAR centers, private corporates, and ICRISAT team members.
- 2. Dr Suhas P Wani presented in a nutshell the journey during the last four years of Bhoochetana implementation, identified the drivers of success, key areas which need to be built further such as strengthening of farm facilitators which is a novel mechanism to reach millions of farmers, inputs delivery system, data recording, effective convergence

and establishing climate change researchers network in the state, inclusive livelihood approach and value addition for linking farmers to the market. The progress of baseline characterization of the selected four benchmark sites for the GoK-CGIAR initiative (Bijapur, Raichur, Tumkur, and Chikmagluru) and detailed plan of works to be undertaken by different CGIAR partner institutions where also briefed.

- 3. Mr Kaushik Mukherji appreciated the benefits of Bhoochetana and stressed the need to strengthen extension system for sustaining Bhoochetana possibly through public private partnerships and address the challenges during the Bhoochetana II. Mr Kaushik Mukherjee raised queries about the *ex-ante* benefits (additional household income) from the project and it was clarified and agreed to revisit the analysis to examine the higher level of benefits from the initiative.
- 4. Dr William D Dar, Director General of ICRISAT appreciated Bhoochetana initiative and acknowledged different stakeholders during his opening remarks. Dr Dar congratulated the DoA team for their hard team work as well as team led by Dr Wani for impressive achievements of Bhoochetana. Dr Dar noted that Bhoochetana has played a crucial role in inclusive market oriented development of farmers in Karnataka. It has not only improved the livelihoods of farm families but also enabled them to manage risks like droughts by building resilience in production systems.
- 5. Dr Sarvesh stressed the importance of collective action in Bhoochetana I for operationalizing the holistic solution at farm level and challenge to improve the timely supply of quality inputs to cover all 7.4 m ha in the state, Mr Chandrashekhar, highlighted the importance of holistic approach, Dr SA Patil, highlighted the need to ensure regular/ sustainable income for the farmers. Mr Shankarlinge Gowda identified the missing link of farmers to the market and suggested due attention should be given to address the missing link for sustainability.
- 6. Mr SV Ranganath, Chief Secretary, lauded the success of Bhoochetana which enabled Karnataka to achieve 5-6% annual growth rate in agriculture during last four years as compared to stagnant 2% growth and appreciated efforts of the ICRISAT and DoA team. He stressed the need to address the missing links in the system like livestock, horticulture, agro-forestry and market linkages. He also identified persistence, persuasion and ensuring inclusiveness of small farmers in

agricultural development as the drivers of Bhoochetana's success. He also ensured full support and help of GoK for the Bhoochetana II and GoK CGIAR initiative. He recommended to name GoK-CGIAR initiative as Bhoochetana Plus. He emphasized on the need to strengthen involvement of private players in extension system and also address the issue of reducing the gap between rural and urban incomes for reducing migration.

Technical Session

- 7. In the Technical Session I, co-chaired by Dr KV Raju and Mr Kaushik Mukherjee, a detailed presentation on baseline characterization including GIS layer maps of four benchmark sites for Bhoochetana Plus was given by Dr Suhas P Wani along with different activities to be undertaken. Detailed discussion took place on the ex-ante economic benefit analysis and suggested that benefits from Bhoochetana Plus will be far more than projected, though, it was indicated that conservative calculations are made with adoption ceilings and ground realities. Dr KV Raju appreciated the progress made by the partner institutions and suggested to identify specific interventions with measurable monitoring indicators with timeline. The role of SAUs was clarified and made it clear that the SAUs are involved in all the programs at various levels. They were appreciated for their participation in taking science-led approach to the farmers' doorstep.
- 8. In the parallel sessions on convergence, inputs, capacity building, interventions and demonstrations, and public private partnerships (PPP) for extension were deliberated by the groups. The PPP session was for the private corporate representatives and the group discussion was steered by Kaushik Mukherjee and KV Raju with support from Dr Suhas Wani. During the discussions presentations were made by the corporate representatives and what is expected by the GoK was highlighted. It was stressed that the extension bundled with inputs supply and machine hiring is expected and payment need to be based on performance and partial recovery of charges from the farmers as per the GoK guidelines. Suggestions were sought from the private corporate on what they can provide, what they expect from the government and how it can be made an exemplar system in the country.

- 9. Drs Siddaraju/Subbaiah presented the summary of discussions from the Inputs Mobilisation group including Machinery with the salient recommendations being: to ensure timely inputs availability focus on assessment of requirement finalisation of rate contract; indenting ; ensuring quality; adequate godown facilities and timely payment to the vendors. It was agreed to have all inputs in place 15 days to 1 month before actual start of the season. Dr BK Dharmarajan summarized the recommendations from the Convergence group, which suggested establishment of state, district and taluk level committees to plug issues in convergence of on-shelf technologies and demonstration, supply of inputs, credit linkage, integrated farming system, farm mechanization, micro-irrigation, capacity building, post-harvest technologies, value addition, and market linkages. Capacity building group led by Shankarappa suggested to consider the existing constraints in benchmark sites, to follow improved production technologies, use of natural resources and external inputs, post-harvest technologies, and market information. Dr Prabhakara Setty for interventions/demonstrations group suggested output oriented interventions with measurable monitoring indicators. The potential interventions suggested include soil-water conservation and management, productivity enhancement, increasing labour efficiency, increasing livestock productivity, nutritional insecurity, and market linkages, etc.
- 10. On second day, Dr Suhas Wani presented detailed synthesis of Bhoochetana progress during four years and stated that area coverage increased progressively from 0.2, 1.2, 2.85 to 3.73 m ha by 2012-13 with impressive yield gains of 23 to 66 per cent over farmers' practice. Even during the low rainfall years during 2011 and 2012, yield gains saw 25-38% increase and touched lives of 3.6 million families particularly small and marginal farmers. Soil mapping was completed, soil health information was effectively shared with all the stakeholders and use of balanced nutrient management including use of micronutrients was promoted amongst the farmers as entry point. In addition, crop diversification like castor in Kolar, coriander and pigeonpea as intercrop were introduced which significantly raised farmers' incomes. Various farmers' success stories have been compiled in a book and released. An economic assessment showed increased economic value to the tune of ₹ 646 crores in Karnataka due to adoption of improved management under Bhoochetana. This initiative

is now widely publicized at international and national fora. Key drivers of success identified are:

- Convergence, collective action, capacity building and consortium approach
- Holistic and integrated approach
- Effective monitoring and evaluation
- Innovative extension system using farm facilitators and lead farmers
- Champions at policy level
- Working passionately and persistently
- Tangible economic benefits for small farmers (inclusiveness)
- Broke vicious cycle of supply driven approach
- Dr Sarvesh, recommended to strengthen the concept of FFs through quality assuarance and effective monitoring on weekly basis by the ADAs, communicating deliberations from the Video Conference (VC) to FFs, replacing new cultivars, timely reporting, and on-line communication with inputs supplying companies.
- 12. Dr KV Raju highlighted the challenges of crop cutting experiments (CCEs) and inclusion of CCE's data in to state statistics. A committee consisting of representatives from revenue department, RDPR department, watershed department, along with agriculture and DES is constituted to report within one month. He sought suggestions from the house to incorporate in the ToRs of the committee.
- 13. Dr Dharmarajan presented the recommendations of the Bhoochetana II Kharif plan workshop held at Belgaum on 28 January 2013.
- During kharif plan 50 lakh ha rainfed area plus 6 lakh paddy area and 2 lakh sugarcane area are targeted.
- Establishment seed villages and agri machinery hiring centers in the villages.
- For FFs minimum qualification recommended is 10th standard (SSLC) and need to be engaged for 180 days during *kharif* season and 270 days for *kharif* and *rabi* seasons.
- The area per FF will be 500 ha in all areas and they receive the honorarium and not salary; their honorarium may be increased to ₹ 200 against 150 per day.

- All FFs to be provided with similar T shirt, cap and a bag from the centralized place.
- Two Lead Farmers are recommended per FF for 15 days.
- All existing trainings to continue along with two additional days for all FFs/extension agents on climate change.
- Current wall writings to continue, but other possible means such as tractors etc. may also be used for dissemination of Bhoochetana information. The information must be crisp and eye catching.
- Establishment of district level technical committee with JDA as chairman and DWDO, DDA, KVK head, ICRISAT scientist as members for convergence and monitoring.
- Establishment of demonstrations in 5 ha per hobli @ ₹ 2,000 ha⁻¹ under KVK scientist
- Conduct of exposure visits for 50 farmers/extension workers in the neighboring districts @ ₹ 25,000 per visit
- Studies on climate resilient agriculture to be undertaken and pilot the ICT Tablet-based extension system in a few districts.
- Setting up of kiosks in the districts.
- Incentives and awards for good farmers, FF's and extension officers along with competitions for farmers

The estimated budget is ₹ 172 crores. Dr Dharamarajan listed the responsibilities as under:

- ICRISAT technical recommendations, reports and climate studies
- KSNMDC climate studies
- KSSC seed production
- Universities guidance for kiosks, crop research and recommendations, capacity building through KVK's
- DoA guidance for crop cutting experiments.
- 14. The innovative extension system established by the DoA in Karnataka need to be nurtured properly and made sustainable through ensuring quality, close monitoring, taking precautions that this cadre remains as honorary cadre and does not proliferate. There is an urgent need to converge FFs of various departments to avoid over populating the FFs in villages. There is need to internalize that FFs are paid honorarium and not the salary as they are not full time service providers. Also there

is need to build their capacity and ensure quality support delivery for the farmers.

- 15. Joint Directors of Agriculture (JDAs) of Mysore, Bidar, and Bellary districts and Assistant Director of Agriculture, Hassan highlighted best practices adopted in their districts for Bhoochetana.
- In Mysore district Bhoochetana rally during Dassera festival proved quite effective for dissemination along with seed treatment campaigns and farmers' field schools. Crop diversification with maize in place of paddy covered 5,446 ha with 3,630 farmers resulted in additional income of ₹ 12,000 ha⁻¹. Similarly, introduction of maize in tribal area (538 ha) of Hunsur taluk have generated net profit of ₹ 32,000 ha⁻¹. For rice farmers, mechanical rice transplanter was introduced to address the problem of labor shortage.
- JDA Bidar indicated well distributed rainfall during 2012 resulted in good agricultural productivity with increase of 30%. He told that farmers have realized the importance of soil-test based fertilizer application and following integrated nutrient management method. Sugarcane farmers have adapted drip irrigation system to improve water use efficiency. *Krishi Raths* showed greater reach and impact on the information sharing among farmers. Need for increased involvement of KVK Scientist & Watershed Department with effective Convergence of different dept Schemes with Bhoochetana was highlighted.
- JDA Bellary highlighted the need for timely actions for CB, inputs delivery. A big achievement during 2012 *kharif* season was that the crop yield increased in the range of 17 to 45%.
- Assistant Director of Agriculture, Hassan shared experiences of Bhoochetana initiative in the district and pointed out that regular capacity building training programs helped FFs and lead farmers to act as effective extension agents. The regular awareness programs and publicity strategies worked well in spreading the awareness and information about the program.
- 16. In the Technical session V, Suhas Wani highlighted the vision of Bhoochetana Mission Program (BCMP) and mentioned that the focus is on sustainable improvement of livelihoods of small and marginal farmers in the state by developing farmers' centric, science-led inclusive market-oriented integrated farming systems participatory development approach. The objectives of Bhoochetana II Mission Program are:

- Strengthening the Bhoochetana consortium for increasing the crops (irrigated and rain-fed) yields by 20 per cent in five years in 30 districts of Karnataka through science-led development and new innovation systems;
- Strengthening the institutional mechanisms such as seed villages, village seed banks, participatory research for development (PR4D), inputs supply, agricultural machinery hiring centers, farm extension through farm facilitators and communication systems for small and marginal farmers in the state for the DoA through capacity development, convergence, collective action, and partnerships;
- To assess the impact of climate change in different agro-eco regions of the state in terms of anticipated shifts in the crop growing periods, water availability, major crop yields, and evaluate adaptation strategies for developing climate resilient farming systems; and
- To document the process of consortium functioning, learning, and impact of BCMP in terms of increased crop yields, institutional development and capacity building of different stakeholders in the state.
- 17. He urged all the stakeholders and policy makers to make this initiative a grand success, by harnessing the positive energy generated in the DoA and to adopt and institutionalize the science-led development approach in the state. Strengthen the consortium and linkages with SAUs e.g. India-EU Project, Indo-US, special projects etc. He also felt that small farm holders should be treated as equal partners through inclusive growth and there is an urgent need to develop sustainable agricultural practices considering the vulnerability of the fragile rain-fed agro-ecosystems while intensifying the systems. Similarly, he stressed that we need to enhance not only the productivity but also should focus on enhancing incomes, linking farmers to markets, improving nitrogen use efficiency (NUE) and water use efficiency (WUE) besides better soil health management.
- 18. The new initiatives in the second phase of Bhoochetana are to assess the impact of climate change in different agro-eco regions of the state in terms of anticipated shifts in the crop growing periods, water availability, major crop yields, and evaluate adaptation strategies for developing climate resilient farming systems. He also expressed that we need to identify and train suitable team members from the SAUs and form a Climate Change Team (CCT) at state level to handle assessment of impacts of climate change at micro level in a coordinated manner. He also highlighted that Climate Change Network will assess the

impacts in the state through collating the historical weather data sets, soils information and quality checking and assessing the impacts of climate change on changes in the agro-eco regions in the state, crop growing period, crop yields, and identify suitable crops as adaptation strategy to cope with the impacts of climate change. He stressed need for climate resilient agriculture and evaluation of suitable strategies in the benchmark locations of the target agro-eco regions in the state and develop awareness amongst the farmers in the state about the potential impacts of climate change on their crops and livelihoods and potential adaptation strategies in the bench mark locations. He emphasized better convergence among all the stakeholders and need for strengthening of new extension system through farmer facilitators. Piloting of innovative Tablet-based as well as farmer to farmer videos using Pico projectors are also proposed as new interventions.

- 19. Mr. Rikin Gandhi from Digital Green described the role of 'Social Networks for Agricultural Development'. He shared his experience of shooting 5-10 minutes videos of the farmers, basically to share their views and experiences about agriculture for the (other) farmers. This 5-10 minutes shoot will be useful in showcaseing through battery operated small Pico projector to other farmers about getting practical information about any particular technology besides giving them a chance of having ownership in the project. He informed that they have plan to train 4-6 people in each group (either SHGs or others) about its handling and usage.
- 20. Improved new cultivars seed introduction strategies in state was described in detail by Dr Ananda Krishna K, Managing Director, Karnataka State Seeds Corporation. He elaborated the concept of introducing and promoting new varieties and hybrids in the market and also highlighted strategies/steps involved in introducing new cultivars. He discussed existing situation in public sector and in today's context he pointed out that there is need to have i) varietal replacement perspective plan for a period of 5/10 years, ii) planning for product development strategies. iii) monitoring for new variety development and replacement, iv) institutional mechanisms and working together by DOA, SAUs and SSCS.
- 21. During presentation by the group leaders the difficulties in prepositioning of new crop varieties like paddy, groundnut, soybean,

red gram and green manuring crop seeds, lack of storage in Hassan, Dakshina Kannada and Yadgir were highlighted. Cooperative societies could be rolled in to reduce the burden on DoA.

- 22. As regards to capacity building, group leader told to effectively use video conferencing for experience sharing; to have satellite-based training program; establish electronic display boards at GPs; farm schools; issue regular press releases; services of local TV channels; video shows; street plays; Krishi Melas; distribute CDs on crop and farm enterprises; effective extension literature and acknowledge achievers.
- 23. The group leader on documentation and dissemination suggested having one handicam per taluk. Group suggested using radio, TV local channels, mobile messages, etc., for effective dissemination. The group also pointed the idea of having a slot in online farmers' query call centers. The Convergence group leader suggested to have district and taluk level committees to plug issues in convergence. The areas targeted for convergence included seed production, fodder production, capacity building, farm mechanization, micro irrigation, post-harvest technologies, market linkages, and credit linkages.
- 24. The group leader on climate change suggested adaptive strategies and group leader on seed production expressed need to replace absolute varieties and suggested to have SAU's concerned breeder to inspect seed production farms. There was a need to subsidize regulation and inspection charges and provide incentives to popular and new varieties.
- 25. During the centenary year of the DoA it was suggested to provide Tablets for ICT-based dissemination and collection of data up to ADAs for BC II. Dr Sarvesh also stressed the need to enhance the efficiency and effectiveness in implementing Bhoochetana during the second phase.

Concluding Session

- 26. During the concluding session, in order to bring competitiveness and efficiency in Bhoochetana, Dr. Wani announced awards from ICRISAT side for the leading blocks/taluks in respect of developing 1,000 ha as climate smart benchmark site and develop suitable interventions. Some of the interventions proposed are:
- Glyricidia plantation
- Soil water conservation (In-situ, Land form treatment, contour farming)

- Convergence (MGNREGA)
- Vermicomposting
- New cultivars
- New extension system
- Documentation
- Conduct of Farmers day
- Crop replacement
- SRI, Direct seeding
- Market linkages
- Value addition
- Seed production/Seed bank
- Crop cutting experiment
- Fodder production
- Micro-irrigation
- Bio-fertilizer
- Any other climate change interventions

The program ended with vote of thanks by Drs Sarvesh (DoA, Bengaluru) and Anantha (ICRISAT).

Workshop Deliberations through Lens

Inaugural Session



Sri SV Ranganath, Chief Secretary, GoK, delivering the Inaugural address.



Dr William D Dar addressing the participants and highlighting the hard work of Bhoochetana team



Participants at the planning and review workshop



Suhas P Wani presenting the brief progress of the Bhoochetana during the last four years.



Sri KV Sarvesh, Director, DoA addressing the participants.



WD Dar presenting the memento to Chief Secretary Sri SV Ranganath.



Dignitaries releasing the BC Success Stories book and Directory of BC team.

Technical Session



Drs Kaushik Mukherji, Suhas P Wani and KV Sarvesh clarifying the doubts for the team members



Sri V Chandrasekhar, Commissioner, DoA, addressing the participants.



Dr GVK, Rao addressing the participants on market linkages.



Dr. Kaushik Mukherji addressing the participants.



Dr KV Raju addressing the participants



KV Raju presenting the award to Mr CM Patgar, AAO Mirjan RSK.



Dr Suhas P Wani along with Mr. Kemparaju, JDA, Uttara Kannada clarifying doubts.



Participants listening to the presentation.

Group Discussion















Participants discussing in group as part of group activity.

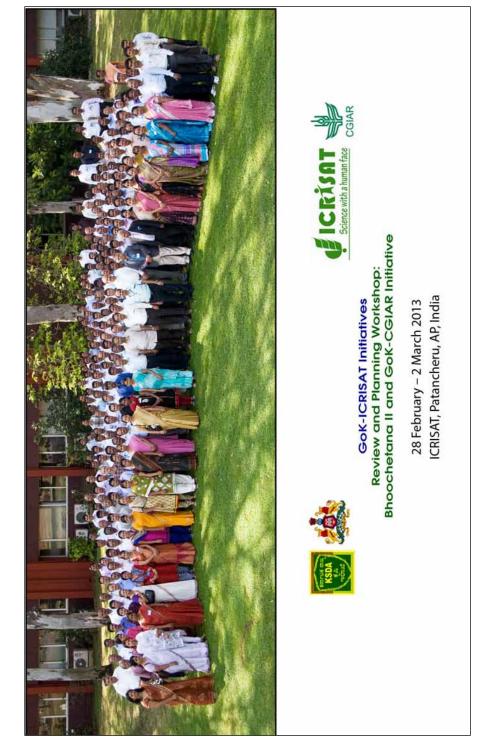
Field Visit







Participants visiting the watershed development at ICRISAT campus



Group Photograph

Approved Proceedings

Proceedings of the Bhoochetana State Level Co-ordination Committee Meeting

Held on 19th March 2013

Members present: List Enclosed

At the outset, Additional Chief Secretary and Development Commissioner welcomed the participants. Detailed discussions were held regarding converging activities of Departments of Horticulture, Watershed Development Department, Sericulture, and Animal husbandry and Veterinary Services for integrated development of farmers.

Director of Agriculture presented the proposed implementation guidelines for the year 2013-14 in detail with modifications in some components and some new components.

After detailed deliberations, the guidelines for implementing Bhoochetana during the year 2013-14 were approved as below.

- Utilizing the services of farmer facilitators for a period of maximum of 180 days in Kharif season predominant districts in dry land area and for irrigated paddy. In districts with both Kharif and Rabi seasons predominant District sugarcane area, duration of work will be max of 270 days @ Rs 175 per working day.
- Two lead farmers per farmer facilitator @ Rs. 100 per day for 15 days.
- One Science graduate/Diploma holder in Agriculture or allied fields with computer knowledge per hobli @Rs 8000 per month for six months in kharif season predominant districts and Paddy areas, Nine months for kharif+Rabi crop season districts & Sugarcane crop area.
- Two days training to all extension officers on Farmer Field School and climate change studies in addition to existing trainings/workshops.
- In addition to wall writings, captions can also be written on tractors and other hitech machineries about Bhoochetana Programme.
- Formation of District level Technical Core Committee with Joint Director of Agriculture Department as convener and members will be DRCS, DSO, DWDO, DDH, JD (Sericulture), DD (A&H), DDA (DATC), ADA (SMS/ HQ), KVK Head/ICRISAT Scientist/Any one Taluk ADA and other co-opted

members to be decided at district level. The committees to scrutinize and approve the district action plan, Review and recommend modifications based on local problems/recommend innovative technologies for adoption. Action plan should be prepared how to converge the extension officers in Bhoochetana and their role.

- To form a similar committee at Taluka level with concerned Departments.
- To layout a model 5 ha Bhoochetana technology demonstration per hobli
 @ Rs.2000/ha. Under the supervision of KVK Scientist. Field days to be conducted in these demonstration plots on priority.
- Two days exposure visit to other districts for a batch of 50 comprising of extension officers, farmer facilitators and farmers @ Rs 25000 per visit.
- 10. Seed production plan with specific action plan for introduction of new varieties to be drafted by KSSC in consultation with other major seed producing agencies like KOF, NSC, and also district technical core committee
- To finalize action plan for climate change resilient studies in consultation with KSNDMC and State Agriculture and related Universities and also to design the lesson plans for training programmes on climate change studies. (Action: ICRISAT)
- ICT Tablets will be distributed to all 747 Rsks, talukas and districts for ICT Tablet based extension networking. ICRISAT to monitor this pilot extension and procurement of these ICT Tablets will be through ICRISAT. Pico Projectors will also b distributed.
- To Set up of information Kiosks in Tumkur, Raichur, Bijapur and Chickmagalur districts in remote taluka headquarters and these Kiosks to be run and monitored by the Universities.
- Incentives/Awards for best performing farmers/farmer facilitators/ Extension officers/ Farmer Field Schools.
- Creative component: To conduct competitions for farmers from village level to state level.
- Introduction of other innovative components like formation of commodity groups for market linkages in the model of SFAC, Providing pico projectors and other AV aids to RSK's for documentation and message dissemination.
- Purchase of T-shirts, Bags and caps for Farmer facilitators under publicity component.
- To continue other components as per 2012-13 guidelines.

- Budget Requirement will be met out of funds under Integrated Agriculture Extension System, Soil Enrichment Programmee, Rashtriya Krishi Vikas Yojane and also by converging funds under other ongoing schemes.
- Roles and Responsibilities: Annexure-1.

Other decisions/suggestions in the meeting are;

- In the identified IWMP areas, Bhoochetana action plan to be prepared based on watershed areas.
- Extension personnel of Watershed Development department, Horticulture department etc., including NGOs or farmer representatives associated with activities of various agri related departments to be involved for all Bhoochetana activities. Concerned Departments to issue necessary orders in this direction.
- A note on possible convergence of various activities of watershed development department to be submitted to Additional Chief Secretory and Development Commissioner. (Action: Commissioner for WDD).
- Net planning of taluk Water shed development department to be finalized in consultation with the Dept of Agriculture.
- Micronutrient requirements of horticulture crops and supply programme by the Department of Horticulture to be prepared and communicated to the committee
- To take Bhoochetana beneficiaries list and link fertigation benefits and also sapling distribution. .(Action: Director, Horticulture Department)
- Specific roles of allied departments to be elaborated in consultation with the concerned departments (Action: ICRISAT).
- RSK's to function as single extension point at Hobli level for departments of Horticulture, Watershed Development Department, Animal Husbandry &Veterinary Services, Sericulture, Fisheries, Agriculture Marketing, Social Forestry and other agri related departments.
- Concerned Departments to issue necessary orders so that on a particular day all extension officials sit in RSKs, atleast once in a week and are available to farmers at RSK.
- Universities to attach students for a period of two months to all RSKs. Universities to communicate names and contact numbers of all students attached to RSK's to all agri & allied departments.

- One Scientist to be nominated for 10 RSK's and their names with contact numbers to be communicated to all agri allied departments.
- A common multi department extension training curriculum to be developed by ICRISAT in consultation with SAU's by 15th April 2013. This manual will be circulated to extension personnel of agri & allied departments and an online test will be conducted on 31st May 2013. (Action: Director of Agriculture)
- Thousand good performing societies/farmer groups to be selected across all the talukas. (Action: Secretary, Co-Operation)
- These society/groups to be linked to nearby RSKs. These society/groups trained on farmer extension services and would be expected to deliver extension and related services like custom hiring, input distribution etc.,
- These society/groups should also function as local produce procurement centres which would take the responsibility of providing further forward market linkages.
- Selected society/groups to be trained on grading, sorting and value addition (both agri and horticulture produce) at gross root level to help farmers to fetch better price for their produce.
- Quality standards for grading of four to five important fruits and vegetables to be drafted in consultation with AVRDC.
- A notification to be issued in this regard at the earliest (Action: Director, Horticulture Department.)
- Good performing Farmer Field School group may be converted into commodity groups and these may also be considered to perform procurement, grading and processing activities.
- All agriculture related departments may give their publicity messages for display on hoardings at RSK.

Meeting was concluded with vote of thanks.

Sd/-

Additional Chief Secretary & Development Commissioner, Govt. of Karnataka

List of Members Present in Bhoochetana State Level Coordination Committee Meeting held on 19-03-20123

Additional Chief Secretary & Development Commissioner, GoK- In Chair

- 1. Shri Krishna Rao, IAS, Principal Secretary, Co-operation Dept.
- 2. Shri Bharatlal Meena, IAS, Principal Secretary, Agriculture.
- 3. Shri Shankar Linge Gowda, IAS, Principal Secretory, Horticulture.
- 4. Dr KV Raju, Economic Advisor to Hon'ble Chief Minister
- 5. Dr V Chandrashekar, **IAS**, Commissioner for Agriculture.
- 6. Shri Kanwer Pal, IAS, Commissioner for watershed.
- 7. Dr KV Sarvesh, Director of Agriculture.
- 8. Shri Jagadish, IAS, Director of Horticulture.
- 9. Smt. Deepa Cholan, IAS, Director of SEP RDP
- 10. Dr SP Wani, Project Coordinator, ICRISAT, Hyderabad.
- 11. Dr KKrishnappa, Resident Project Scientist for Bhoochetana, ICRISAT
- 12. Dr BK Dharmarajan, Additional Director of Agriculture (Crop Dev. & Planning).
- 13. Dr H Subbayya, Additional Director of Agriculture (organic Planning)
- 14. Dr K Nagaraj Shetty, Additional Director Animal Husbandry.
- 15. Dr Anand Krishnan. K. Manging Director, KSSC.
- 16. Dr Anil Kumar S. University of Horticulture, Bagalkote.
- 17. Dr ST Hundekar, SMS Soil Scientist, UAS Dharwad.
- 18. Dr MB Ravi, Liason Officer, Bhoochetana, UAS Raichur.
- 19. Dr T Sheshadri, Professor, UAS Bangalore, Director of Research.
- 20. Dr K Naga Bhooshanam, Director of Extension, UAS Bangalore.
- 21. Dr A Satish, GKVK, UAS Bangalore.

- 22. Dr BS Janagondar, Director of Research, UAS Raichur.
- 23. Shri Subramanyam K.V. Joint Director, Director of Economics & Statistics.
- 24. Shri K. Hanumanth Reddy, Joint Director of agriculture (Development).
- 25. Shri Sidaraju, Joint Director of agriculture (Inputs).
- 26. Smt SM Deepaja, Deputy Director of Agriculture (Food Crops).
- 27. Smt Poornima G.C. Deputy Director of Agriculture (Seeds).
- 28. Shri SR Nagaraj, Assistant Director of Fisheries.
- 29. Shri GM Bommai, KSSC.
- 30. Smt KN Shrmila, Agriculture officer (Food Crops).
- 31. Smt Mathura S Pai, Agriculture officer (Food Crops).

Annexure-1: Roles and Responsibilities

A. Karnataka State Department of Agriculture:

- Director, Agriculture is the nodal officer and Department of Agriculture will implement the project in all the districts
- Department of Agriculture will prepare detailed action plans and organize timely availability of necessary quality inputs.
- Department will provide day-to-day supervision, timely supply of nutrients and ensure required target to be made to cover planned areas in the district.
- Department staff along with other consortium partners will undertake crop cutting experiments to record yield data.

B. ICRISAT:_

- To give technical recommendations.
- Participation in district level technical committee meetings.
- To appoint and monitor the activities of research technicians.
- To monitor crop cutting experiments and documentation.
- To submit half yearly and annual reports inclusive of all activities of Bhoochetana.
- To pilot run Tablet based extension in four districts.
- To come out with action plan for climate resilient studies and give suitable recommendations.

C. Karnataka State Natural Disaster Management Center :

• Provide guidance for action plan climate resilient studies and give suitable recommendations.

D. Karnataka State Seed Corporation :

- To monitor seed production programme.
- To introduce new varieties.
- Provide guidance for setting up of Seed banks.

E. Universities:

- Provide guidance and monitor the functioning of KIOSKS.
- To guide Climate resilient studies and give suitable recommendations.
- Capacity building activities.
- To make action plan for multiplication of new varieties.

F. Department of Economics and Statistics :

- To utilize the services of farmer facilitators for crop cutting experiments in the selected villages
- Provide guidance for crop cutting experiments in the Bhoochetana plots

G. Watershed Development Department:

- Watershed Development Department would converge IWMP's productivity enhancement activities with BCM program.
- The AGs, SHGs and WCs of IWMP would actively participate in village seed banks, nursery raising and other collective action activities.
- IWMP watersheds would undertake Gliricidia plantation to cover 100% areas of field bunds as a model for other farmers.
- WDD staff's active participation in training, development and M & E activities is critical.

H. Department of Horticulture:

• Coveregence of their Extension Officers and Schemes in Bhoochetana Blocks.

List of Participants

Dignitaries

Anandakrishna K

Managing Director Karnataka State Seeds Corporation Ltd (KSSC) Beej Bhavan Bellary Road, Hebbal Bengaluru Phone: 094483 58006 Email: ksscmd@gmail.com

Chandrasekhar V

Commissioner Department of Agriculture Commissionerate of Agriculture Government of Karnataka Bengaluru Phone: (080) 22212804 Email: agricommr@kar.nic.in

Govindaraju

CEO ZP Tumkur Karnataka

Jambunath Guthi CEO ZP, Bijapur, Karnataka

Phone: 9480857000 Email: jmpvguthi@gmail.com

Kaushik Mukherjee

Additional Chief Secretary & Development Commissioner Government of Karnataka Vidhana Soudha Bengaluru Phone : (080) 22250715/22033308 Email: devcom@karnataka.gov.in

Krishna Rau V

Principal Secretary Co-operation Department Government of Karnataka Bengaluru Email: prs-coop@karnataka.gov.in

Patil SA

Chairman Karnataka Krishi Mission Department of Agriculture Premises # 1, Seshadri Road Bengaluru Phone: (080) 22115496 Email: drpatilsa5@gmail.com

Prakash VS

Director Karnataka State Natural Disaster Monitoring Centre (KSNMDC) Major Sandeep Unnikrishnan Road Bengaluru Email: dmc.kar@nic.in

Raju KV

Economic Advisor to Hon'ble CM of Karnataka, Govt. of Karnataka Vidhan Soudha Bengaluru Phone: (080) 22353120 Email: kvraju2008@gmail.com

Ranganath SV

Chief Secretary Govt. of Karnataka Bengaluru Karnataka Phone: (080) 22252442 Email: cs@karnataka.gov.in

Sarvesh KV

Director of Agriculture Commissionerate of Agriculture Govt. of Karnataka Bengaluru Phone: (080) 22242746 Email: agridir@kar.nic.in

Shankarlinge Gowda

Principal Secretary Dept. of Agriculture Govt. of Karnataka Bengaluru 560 009 Email: prs-ah@karnataka.gov.in

State Agricultural Universities (SAUs)

Hundekar ST Subject Matter Specialist (Soil Science) KVK Saidapur Farm Dharwad Karnataka Phone : 9448495342 Email: pc kvkdharwad@rediffmail.com

Mahantesh M Nekar

Asst. Prof Agronomy Veterinary College KVA & FSU Bidar Karnataka Phone: **9**4485 15257 Email: dr.m.m.nekar@gmail.com

Ravi MV

Liaison Officer (Bhoochetana) University of Agricultural Sciences Raichur Karnataka Email: mvravi1972@gmail.com

Satyanarayana Reddy

Director of Research University of Agricultural Sciences Shimoga Karnataka

Shankar MA

Director of Research University of Agricultural Sciences (UAS) Bengaluru Email: drmashankar191212@gmail.com

DoA Office, Bengaluru

Ambika N

Deputy Director of Agriculture (Field Trials) Department of Agriculture Government of Karnataka Seshadri Road Bengaluru Phone: 9845861210 Email: agrift@nic.in

Amrutavalli

Personal Assistant Commissioner of Agriculture Department of Agriculture Government of Karnataka Bengaluru

Antony ME Deputy Director of Agriculture (Planning) Department of Agriculture Government of Karnataka Bengaluru Phone: 09448412935 Email: agrifm@nic.in

Bommaiah GM

General Manager Karnataka State Seeds Corporation Ltd (KSSC) Beej Bhavan, Bellary Road Hebbal Bengaluru Email: ksscmd@gmail.com

Deepaja SM

Deputy Director of Agriculture (FC) Department of Agriculture Government of Karnataka Seshadri Road Bengaluru Phone: 9448033386 Email: agrifood@kar.nic.in

Dharmarajan BK

Additional Director of Agriculture (Crop Development & Planning) Government of Karnataka Seshadri Road Bengaluru Phone : 9886321240 Email: agrifood@kar.nic.in

Girish MA

Deputy Director of Agriculture (ISOPOM) Commissionerate of Agriculture Bengaluru Email: agrirsk@nic.in

Govind Raju

Chief Accounts Officer Commissionerate of Agriculture Seshadri Road Bengaluru Karnataka Phone: 9945071880 Email: cao@nic.in

Javeeda Naseema Khan

Deputy Director of Agriculture (Project) Commissionerate of Agriculture Seshadri Road Bengaluru Phone: 9980226870 Email: agrifm@nic.in

Jagadeesh Sunkad Karnataka Krishi Mission Department of Agriculture Premises, Bengaluru

Kalavathi B

Deputy Director of Agriculture (State Agri Area) Commissionerate of Agriculture Seshadri Road Bengaluru Phone: 9480366922 Email: agroforms@nic.in

Lalitha Reddy SS Deputy Director of Agriculture (Soil Health)

Commissionerate of Agriculture Government of Karnataka Karnataka Phone: 9448323699 Email: agrish@nic.in

Maddurappa M Assistant General Manager Karnataka State Seeds Corporation Ltd Beej Bhavan Bellary Road Hebbal Bengaluru Phone: 094483 58099 Email: ksscmd@gmail.com

Mathura Pai Agricultural Officer Commissionerate of Agriculture Bengaluru

Karnataka

Poornima

Deputy Director of Agriculture (Seed Development) Department of Agriculture Bengaluru Email: rkvykar@gmail.com

Prabhakara Setty TK

Coordintaor RKVY Cell, Department of Agriculture Karnataka Email: rkvykar@gmail.com

Rajasulochana MN

Deputy Director of Agri. (Manures & Fertilizers) Department of Agriculture Bengaluru Phone :9448892586 Email: rkvykar@gmail.com

Ramesh N

Deputy Director of Agriculture (RSK) Commissionerate of Agriculture Bengaluru Karnataka Email: agrirsk@nic.in

Roopa L Deputy Director of Agri. (Pathology) Department of Agriculture Karnataka Email: rkvykar@gmail.com

Sathya Prakash S

Consultant RKVY Cell Bengaluru Karnataka Email: rkvykar@gmail.com

Shankarappa AN

Joint Director of Agriculture (Trg & Extn) Commissionerate of Agriculture Seshadri Road Bengaluru Email: agrijdr@nic.in

Shobha HB Deputy Director of Agriculture

(Plant Protection) Commissionerate of Agriculture Bengaluru Phone: 9448882405 Email: agripp@nic.in

Siddaraju

Joint Director of Agriculture (Inputs) Department of Agriculture Bengaluru Karnataka Phone: 9880850741 Email: agrijdinputs@kar.nic.in

Subbaiah H

Addl. Director of Agriculture (Organic Farming) Govt. of Karnataka Bengaluru Email: agriadqc@nic.in

Subbaiah Venkata Ramu

Joint Director of Agriculture Govt. of Karnataka Bengaluru Email: agriadqc@nic.in

Suma MR

Deputy Director of Agriculture (Fertilizer Control Laboratory) Government of Karnataka Bengaluru Email: agrifcl@nic.in

Vidyananda C Deputy Director of Agriculture (Soil Survey) Department of Agriculture Bengaluru Email: rkvykar@gmail.com

Bagalkot

Anand Goudar

Agricultural Officer RSK Badami Badami Tq Bagalkot District Karnataka

Chetana Patil

Deputy Director of Agriculture District Agriculture Training Centre (DATC) Bagalkot Karnataka Email: ddadatcbgk@rediffmail.com

Gopya Naik Assistant Director of Agriculture RSK Badami Hungund Tq Bagalkot District Karnataka

Parshuram S Ganni Agricultural Officer (TO) ADA Office, Bilagi Tq Bagalkot District Karnataka **Prakash Adavi** Assistant Agricultural Officer RSK-Bagalkot Bagalkot District Karnataka

Srinivas Patil Agricultural Officer (TO) ADA office, Jamakhandi Bagalkot District Karnataka

Tattimani Shreeshail Shankarappa Agricultural Officer (TO) RSK-Terdal Bagalkot Tq Karnataka

Belgaum

Agasinal KS Assistant Director of Agriculture Belgaum Karnataka

Altaf Husain Agricultural Officer Belgaum Karnataka

Belavatagi SF Assistant Director of Agriculture Belgaum Karnataka

Bujrukh MS Agricultural Officer Belgaum Karnataka

Chavan DB Assistant Director of Agriculture Government of Karnataka Belgaum Karnataka Phone: 9663045222/ (0831) 2466645 Email: ada.bgm@rediffmail.com

Deepa G Wader Agricultural Officer Belgaum Karnataka

Jeelani Mokashi Deputy Director of Agriculture Belgaum Karnataka

Indudar Hiremath Agricultural Officer Hukkeri Belgaum Karnataka

Nanasahebgoud Patil Assistant Agricultural Officer O/o ADA Belgaum District Karnataka

Maharaddi KN Agricultural Officer ADA Office Saundatti Belgaum District Karnataka

Manjunath Janamatti Agricultural Officer Belgaum Karnataka Paragouda Patil Technical Officer JDA Office Belgaum Karnataka

Ranugol SS Assistant Agricultural Officer Belgaum Karnataka

Salim Sangatras Assistant Director of Agriculture Belgaum Karnataka

Bellary

Hussain Saheb B Agricultural Officer (TO) Bellery Karnataka Phone: 9480268818

Jayanna Farm Facilitator Hulikeri Karnataka

Manjunath Kannari Assistant Director of Agriculture Hospet Karnataka

Manjunath Kannari Assistant Director of Agriculture Hospet Karnataka

Nisar Ahmed Assistant Agricultural Officer O/o ADA Siruguppa Bellary

Raghavendra Assistant Director of Agriculture Sandur Bellary Karnataka

Ramappa K Joint Director of Agriculture Bellery Karnataka Phone: 9880273944/ (08392) 276224 Email: jdably@gmail.com

Ramesh Naik

Assistant Director of Agriculture H.B. Halli Bellary Karnataka

Shivamurthy Naik Assistant Agricultural Officer Hosahalli Bellary Karnataka

Bengaluru Rural

Anusuya Devi Agricultural Officer Bengaluru Rural Karnataka

Kavita J Agricultural Officer Bengaluru Rural Karnataka Email: ada10hoskote@gmail.com

Lingareddy Lakshmana Reddy G Assistant Director of Agriculture Bengaluru Rural Karnataka

Narayana ML

Assistant Director of Agriculture Government of Karnataka Nelamangala Bengaluru Rural Karnataka Phone: 9448443587/ (080) 7722168 Email: adanela@tatanova.com

Narayanareddy H Joint Director of Agriculture Government of Karnataka Bengaluru Rural Karnataka Phone: 9448536412/ (080) 26711594 Email: dagrbrur2002@yahoo.com

Venkateshayya Agricultural Officer Bengaluru Rural Karnataka

Bengaluru Urban

Laxman Reddy GL Assistant Director of Agriculture Government of Karnataka Bengaluru North Karnataka Phone: 9448385851/ (080) 28461675 Email: adabngnorth@gmail.com

Nagaraja S Assistant Director of Agriculture Government of Karnataka Anekal Bengaluru Urban Karnataka Phone: 9480019765/ (080) 78592805 Email: adaanekal@yahoo.com

Narayana Reddy

Joint Director of Agriculture Government of Karnataka Bengaluru North Karnataka Email: jdabngnorth@gmail.com

Parmesh

Assistant Director of Agriculture Government of Karnataka Bengaluru Karnataka

Sadananda M

Assistant Director of Agriculture Government of Karnataka Bengaluru Karnataka

Bidar

Katagi MS Assistant Director of Agriculture Bidar Karnataka Email: adabidar@gmail.com

Puthra GT Joint Director of Agriculture Bidar Karnataka Email: jdabidar@gmail.com

Rajendra Namdev Mali Facilitator Bidar District Karnataka

Sharankumar echnical Officer JDA Office Bidar Karnataka Sharnappa Mudgal Deputy Director of Agriculture Bidar

Karnataka

Shetkar SV

Agricultural officer ADA Office Bhalki Bidar Karnataka

Somshekhar Biradar

Assistant Director of Agriculture Aurad Bidar Karnataka

Venkatramreddy Patil

District Watershed Development Officer Bidar Karnataka

Vishal Kumar

Agricultural officer ADA Office Humnabad Karnataka

Vishwanath Chanashetty

Assistant Director of Agriculture Agriculture Department B.Kalyan Bidar Karnataka Phone : 9448579756/ (08481) 250523 Email: adabk2009@yahoo.in

Bijapur

Bajanthri D Assistant Director of Agriculture Bijapur Karnataka

Basavraj Siddalingesh Dodamani

Agricultural Officer Bijapur Karnataka

Biradahr AP Agricultural Officer Bijapur Karnataka

Devaraj MB Deputy Director Dept. of Animal Husbandry & Veterinary Bijapur Karnataka

Hanamantagouda Patil Assistant Horticulture Officer Bijapur Karnataka

Hosakoti Eurura Muthappa Computer Operator O/o JDA Office Bijapur Karnataka

Kaman SB Assistant Director of Agriculture Bijapur Karnataka

Kenchappa Ningappa Uppar Agriculture Office Bijapur Karnataka

Lingamurthy Joint Director of Agriculture JDA Office Bijapur Karnataka **Prathiba Hugar** Assistant Director of Agriculture Bijapur Karnataka

Ramakrishna Sr. Assistant Director of Fisheries Bijapur Karnataka

Sangappa Havappa Yadahalli Assistant Director of Agriculture (TO) Bijapur Karnataka

Tharaprashantah RA

Assistant Conservator of Forests Forest Quarter Afzalpur Takke Bijapur Karnataka

Chamrajnagar

Mahadeva BS Agricultural Officer Kollegal Karnataka

Prasad MC Assistant Agricultural Officer Chamrajnagar Karnataka

Somashekar Assistant Director of Agriculture Gundlupet Tq Karnataka

Sundramma Assistant Director of Agriculture Yalandur Tq Karnataka

Chikkballapur

Abid SS Deputy Director of Agriculture Kagathi Chikkaballapura Karnataka

Keshava Reddy A

Agricultural Officer Gowribidanur Tq Chikkaballapura Karnataka

Narasaraj MA

Assistant Director of Agriculture Gudibande Tq Chikkaballapura Karnataka

Obaleshappa N Assistant Director of Agriculture Chikkaballapura Tq Karnataka

Raghavendra N

Assistant Director of Agriculture Sidlaghatta Chikkaballapura Karnataka

Shivanagappa Assistant Director of Agriculture Bagepalli Tq Chikkaballapura Karnataka Srinivas S Assistant Director of Agriculture Chintamani Tq Chikkaballapura Karnataka Venkataramu S Joint Director of Agriculture Chikkaballapura Tq Chikkaballapur, Karnataka

Chikmanglur

Mallikarjuna KJ Agricultural Officer O/o ADA Chikmanglur Karnataka

Lokesh KR

Assistant Director of Agriculture Government of Karnataka Chikmanglur Karnataka Phone : 9483814996/ (08262) 220138 Email: adachikmagalur@gmail.com

Lokeshappa SM

Assistant Director of Agriculture Government of Karnataka Narasihmarajapura Chikmanglur Karnataka

Raju M Joint Director of Agriculture Department of Agriculture Government of Karnataka Chikmanglur Karnataka Phone: (08262) 220494 Email: jdagrickm@gmail.com Sathyanarayana Rao Assistant Director of Agriculture Government of Karnataka Koppa, Chikmanglur Karnataka Phone: 9480067497/ (08265) 221217 Email: akoppa3@gmail.com

Shivanna

Assistant Director of Agriculture Government of Karnataka Kadur Chikmanglur Karnataka

Shivakumar

Assistant Director of Agriculture Government of Karnataka Tarikere Chikmanglur Karnataka

Siddappa BH

Assistant Director of Agriculture Government of Karnataka Mudigere Chikmanglur Karnataka Phone: 9448120681 Email: adamudigere@gmail.com

Vinay Kumar

Assistant Director of Agriculture Government of Karnataka Sringeri Chikmanglur Karnataka

Chitradurga

Ashok J Agricultural Officer HiriyurTq Chitradurga Karnataka Email: adahyr123@gmail.com

Chandrakumar Agricultural Officer ChitradurgaTq Karnataka Email: adahyr123@gmail.com

Hamsaveni MR

Assistant Director of Agriculture Hosadurga Tq Chitradurga Karnataka Phone: 9448944744/ (08199) 230446 Email: adahsd@rediffmail.com

Krishnamurthy R

Joint Director of Agriculture Chitradurga Dist Karnataka Email: adably@gmail.com

Praveen Choudri NA

Technical Officer JDA office Chitradurga Karnataka

Spurthi GS

Assistant Director of Agriculture Challakere Tq Chitradurga Karnataka Email: ada_hlk@yahoo.in

Sreedhar Y Assistant Director of Agriculture Holalkere Tq Chitradurga Karnataka Phone: 9880101651/ 275341 Email: da_hlk@yahoo.in

Dakshina Kannada

Mohan P Joint Director of Agriculture Dakshina Kannada Karnataka Email: jdagrimng@dataone.in

Nandana P Shenoy

Assistant Agricultural Officer Bantwal Raitu Samparka Kendra Jodumarga Post Dakshina Kannada Karnataka

Narayana Shetty K

Assistant Director of Agriculture Mangalore, Dakshina Kannada Karnataka Email: jdagrimng@dataone.in

Shivashankar Danegondar

Assistant Director of Agriculture Bantwal Dakshina Kannada Karnataka Email: jdagrimng@dataone.in

Tilak Prasadji

Assistant Director of Agriculture Belthangady Tq. Karnataka Phone: 7259005007 Email: aaadabelt8@gmail.com

Davangere

Gollar G Joint Director of Agriculture Government of Karnataka Davangere Karnataka Phone: 9449082829/ (08192) 230311 Email: agridvg@gmail.com

Kamala Naik R Assistant Director of Agriculture Channagiri Davangere Karnataka Phone: 9481054409/ (08189) 228260 Email: adacng@gmail.com

Maruthi Sannakki

Assistant Director of Agriculture Jagaluru Davangere Karnataka Phone: 9901645054/ (08196) 227152 Email: jagalurada@gmail.com

Prakash

Assistant Director of Agriculture RMC Road Davangere Karnataka

Rajashekarappa SB

Assistant Director of Agriculture Davangere Karnataka Phone: 9448415557/ (08192) 250084 Email: adadvg@gmail.com

Revanasiddana Gowda HK

Assistant Director of Agriculture Honnali Davangere Karnataka Phone: 9845083401/ (08188) 251387 Email: adahonnali@gmail.com

Sridharamurthi Agricultural Officer Davangere Karnataka

Srinivas Chintal V Deputy Director of Agriculture D.A.T.C.Kadajji Davangere Karnataka Phone : 9886624039/ (08192) 292322, Email: datckdj@gmail.com Suresh CT Agricultural Davangere Karnataka

Thippeswmay Revannappa

Assistant Director of Agriculture Harapanahalli Davangere Karnataka Phone: 9945301345/ (08398) 280435 Email: adahrpnl@gmail.com

Vijayakumar JH

Assistant Director of Agriculture Harihara Davangere Karnataka Phone: 9448336520/ (08192) 242170 Email: adaharihara@gmail.com

Dharwad

Gadad SM Joint Director of Agriculture Dharwad Karnataka Email: jdadwd@gmail.com

Hosamani Assistant Agricultural Officer RSK - Kalghatgi Karnataka

Jayashri Patil Y Agricultural Officer RSK - Hubli Karnataka

Malati Rachotappa Agriculture Officer (Tech. Officer) Dharwad Karnataka Murgod GD Assistant Director of Agriculture Kundagol Karnataka

Patil BS Assistant Agricultural Officer RSK-Shamshi Karnataka

Patil PN Assistant Director of Agriculture Hubli & Kalaghatagi Karnataka

Vandana Pujari Agricultural Officer RSK-Dharwad Karnataka

Veeranna KP Assistant Director of Agriculture Dharwad Karnataka

Gadag

Manjunatha SN Assistant Director of Agriculture Gadag Karnataka

Narasimha Murthy Joint Director of Agriculture Gadag Karnataka Phone: 9481692305/ 7259005226 Email: jdagadag@gmail.com

Prahalad Rao Assistant Director of Agriculture Gadag Karnataka **Ranga Swamy** Assistant Director of Agriculture Gadag Karnataka

Seddesh Kodihalli Assistant Director of Agriculture Gadag Karnataka

Gulbarga

Arvind Rathod Agricultural Officer Gulbarga Karnataka

Balraj Rangrao Assistant Director of Agriculture Gulbarga Karnataka

Imamsahed Jatth Agricultural Officer O/o ADA Chittapur Gulbarga Karnataka

Jalindar G Joint Director of Agriculture Gulbarga Karnataka

Janaki Bai Assistant Director of Agriculture Gulbarga Karnataka

Naveed Afzal Assistant Director of Agriculture Gulbarga Karnataka **Shasank sha** Assistant Director of Agriculture Gulbarga Karnataka

Shridevi Hajare Assistant Director of Agriculture Gulbarga Karnataka

Somalingayya Farm Facilitator Gulbarga Karnataka

Vijaylakshmi Assistant Director of Agriculture Gulbarga Karnataka Zulfequar Ahmed Assistant Director of Agriculture Gulbarga Karnataka

Hasan

Bhanuprakash UP Assistant Director of Agriculture Department of Agriculture Hassan District Karnataka Phone: 9611133356/ (08175) 273231 Email: adahnpura@gmail.com

Cheluuarangappa TG Agricultural Officer Department of Agriculture Hassan District Karnataka

Harish Kumar Agricultural Officer Department of Agriculture Hassan District Karnataka

Kempegowda

Deputy Director of Agriculture Department of Agriculture Government of Karnataka Hassan District Karnataka Phone: 9448229808/ (08172) 267158 Email: jdahassan@yahoo.com

Kokila AS

Assistant Director of Agriculture Department of Agriculture Government of Karnataka Hassan District Karnataka Phone: 9916458968/ (08172) 269288 Email: adahsn49@yahoo.in

Nagendraprasad BG

Assistant Director of Agriculture Department of Agriculture Government of Karnataka Hassan District Karnataka Phone: 9449427979/ (08177) 222318 Email: adabelur@ymail.com

Paramesha D

Assistant Director of Agriculture Department of Agriculture Government of Karnataka Hassan District Karnataka

Rama Hanumaiah

Assistant Director of Agriculture Department of Agriculture Government of Karnataka Hassan District Karnataka Phone: 9986736528/ (08176) 252263 Email: adacrp@yahoo.com

Shivaraju B

Joint Director of Agriculture Department of Agriculture Hassan District Karnataka Phone: 9448417940/ (08172) 267158 Email: jdahassan@yahoo.com

Haveri

Devika R Deputy Director of Agriculture DATC Devihosur Karnataka

Dileepkumar D Masuti Technical Officer

Byadgi, Haveri Karnataka

Ganesh Naik S

Joint Director of Agriculture Haveri Karnataka

Kotresh G

Agricultural Officer RSK - Karajagi Haveri Karnataka

Madalageri Assistant Direct

Assistant Director of Agriculture Savanur Haveri District Karnataka Phone: 9880423288/ (958378) 241752 Email: agrisvr@gmail.com

Naganagowda Reddy Assistant Director of Agriculture Ranebennur Haveri District Karnataka

Sangamesh S Haklappanavar

Technical Officer Hangal Haveri District Karnataka

Seva P Naik Assistant Director of Agriculture Hirekerur Haveri District Karnataka Phone: 9972975085/ (958376) 282343 Email: adahkr@gmail.com

Shivanand Chanabasappa

Agricultural Officer O/o ADA Ranebennur Haveri Karnataka

Halappa Shantappa Baligar Farm Facilitator Haveri District Karnataka

Vijayakumar M Kunkur Technical Officer Shiggao Haveri Karnataka

Kodagu

Mahamud Mizamil Assistant Agricultural Officer Virajpete Tq Kodagu District Karnataka

Rajashekhar HS Assistant Director of Agriculture Somavarpete Tq Kodagu District Karnataka Shivamallu BM

Joint Director of Agriculture Madikeri Kodagu District Karnataka

Subramanya KB Assistant Director of Agriculture Madikeri Kodagu District Karnataka

Kolar

Huchheraiah H Assistant Director of Agriculture HQA, Karnataka

Krishnappa K Assistant Director of Agriculture Bangarpet Karnataka

Manjunatha K Agricultural Officer Kolar Tq Karnataka

Murali Agricultural Officer Mulbagal Tq Karnataka

Nagarjun Babu Agricultural Officer Srinivaspur Tq Karnataka

Satish Agricultural Officer Malur Tq Karnataka

Sudarshan

Agricultural Officer Srinivaspur (Tq) Kolar District Karnataka

Koppal

Amaresh M Madivalar

Agriculture Officer Kustagi Taluk Koppal Karnataka

Balappa Rangappa Jalageri

Assistant Agricultural Officer Kushtagi Koppal Karnataka

Basavaraddi BR

Assistant Director of Agriculture Kustagi Taluk Koppal Karnataka

Gungadi Sharanappa

Agriculture Officer Yalburga Taluk Koppal Karnataka

Malagar SS

Agriculture Officer Gangavathi Taluk Koppal Karnataka

Manjula Basavareddi Assistant Director of Agriculture Koppal Taluk Karnataka

Padmaya Naik A Joint Director of Agriculture Koppal Taluk Karnataka

Sharanappa K Hakari Farm Facilitator Koppal Taluk Karnataka

Mandya

Channaiah C Assistant Director of Agriculture K.R.Pet Taluk Mandya Karnataka

Jayaswamy GS Deputy Director of Agriculture DATC Mandya Karnataka

Mahadevaiah GM Assistant Director of Agriculture Pandavapura Taluk Mandya Karnataka Phone: 9900934871/ (08232) 255171 Email: adappv1@yahoo.co.in

Mahadevaiah N Assistant Director of Agriculture Malavalli Taluk Mandya Karnataka Phone: 9740509048/ (08232) 242048 Email: adamalavally@rediffmail.com

Manju HC Assistant Agricultural Officer Srirangapatna Taluk Mandya Karnataka

Manjunath S Assistant Director of Agriculture Nagamangala Taluk Mandya Karnataka Phone: (08232) 286141 Email: adanagamangala@gmail.com

Shambhugowda

Technical Officer O/o ADA Mandya Karnataka

Shreeharsha Technical Officer O/o JDA Mandya Karnataka

Suresh R Assistant Director of Agriculture Srirangapatna Taluk Mandya Karnataka

Mysore

Kenchegowda K Assistant Director of Agriculture Hunsur Taluk Mysore Karnataka

Krishnaiah KR Joint Director of Agriculture Public Offices Building Mysore Karnataka Email: dagrmys@rediffmail.com Krishna Murthy Agricultural Officer Nanjangud Taluk Mysore Karnataka

Krishnamurthy Assistant Director of Agriculture T.Narasipura Taluk Mysore Karnataka

Praveen Agricultural Officer K.R.Nagar Taluk Mysore Karnataka

Somashekar S Assistant Director of Agriculture Mysore Taluk Mysore Karnataka

Venkatesh J Assistant Director of Agriculture Heggadadevanakote Taluk Mysore Karnataka

Raichur

Srinivas BY Joint Director of Agriculture Raichur Karnataka Email: jdaraichur@rediffmail.com

Kadiwal Chanamallapa R Assistant Director of Agriculture Watershed Development Dept Raichur Karnataka

Kashinath Onddekar

Agricultural Officer Raichur Karnataka

Madhukant Assistant Agricultural Officer Raichur Karnataka

Mahadevappa Assistant Director of Agriculture Devadurga Raichur District Karnataka

Rehimansab L Jalihal Agricultural Officer Manvi Raichur District Karnataka

Rupa AN Deputy Director of Agriculture DATC Dadesugur Raichur District Karnataka Email: jdaraichur@rediffmail.com

Narasing Rao Saraswathi Assistant Director of Agriculture Lingasagur, Raichur District, Karnataka

Ramnagar

Annaiah Joint Director of Agriculture Ramnagar Karnataka **Ashoka H** Assistant Director of Agriculture Ramnagar Karnataka

Girish Gowda Assistant Director of Agriculture Ramnagar Karnataka

Harishnakar K Assistant Director of Agriculture Ramnagar Karnataka

Nagarajaiah SL Assistant Director of Agriculture Office of the Joint Director of Agriculture Department of Agricultur Ramanagara District Karnataka Email: dir.agrictulture@dataone.in

Radhakrishna KR Assistant Director of Agriculture Ramnagar Karnataka

Shimoga

Ashoka S Assistant Director of Agriculture Hosanagar Karnataka Phone: 9886989078/ (08185) 221509 Email: adahsn@rediffmail.com

Basavaraj DM Assistant Director of Agriculture Shimoga Karnataka Phone : 9448537463/ (08181) 223536 Email: adashimoga@rediffmail.com **Kumar KG** Agricultural Officer Shimoga Karnataka

Manjula G Assistant Director of Agriculture Shimoga Karnataka

Mohan Kumar Agricultural Officer Shimoga Karnataka

Noor Samad AS Agricultural Officer Shimoga Karnataka

Pandu KH Assistant Director of Agriculture Thirthahalli Karnataka Phone : 9916370047/ (08181) 229225 Email: adatth@gmail.com

Shivprakash Agricultural Officer Shimoga Karnataka

Sumithramma Farm Facilitator Shimoga Karnataka

Tumkur

Anup KG Joint Director of Agriculture Department of Agriculture Karnataka

Ashok TN

Assistant Director of Agriculture Office of the Joint Director of Agriculture Koratagere Tumkur District Karnataka Phone: 9448659596/ (08138) 232133 Email: adakoratagere@gmail.com

Chamarajappa

Assistant Director of Agriculture Office of the Joint Director of Agriculture Department of Agriculture Gubbi, Tumkur District Karnataka Email: ada_gubbi@yahoo.com

Chandrakala Deputy Director of Agriculture Department of Agriculture Tumkur District Karnataka

Chandrakumar Assistant Director of Agriculture Tumkur Karnataka

Dinesh B Agricultural Officer (TO) Office of the Joint Director of Agriculture Tumkur Karnataka

Jogikalmath Murali Basaiah Assistant Director of Sericulture Tumkur Karnataka

Kiran Gowda

Assistant Agricultural Officer Department of Agriculture Kunigal Tumkur District Karnataka

Krishnappa HS

Assistant Director of Agriculture O/o Joint Director of Agriculture Department of Agriculture C.N.Halli Tumkur District Karnataka Email: ada_cnhalli@yahoo.com

Kubendra Naik D

Sr. Assistant Director of Fisheries Tumkur District Karnataka

Lingarajappa BV

Assistant Director of Agriculture O/o Joint Director of Agriculture Department of Agriculture Turuvekere, Tumkur District Karnataka Phone: 9448836876/ (08139) 287467 Email: adatumkur@yahoo.com

Mallikarjunappa

Assistant Agricultural Officer Department of Agriculture Pavagada Tumkur District Karnataka

Nagaraja H

Assistant Director of Agriculture O/o Joint Director of Agriculture Department of Agriculture Madhugiri, Tumkur District Karnataka Email: adamadhugiri@gmail.com

Nataraju KS

Assistant Agricultural Officer Department of Agriculture Sira Tumkur District Karnataka

Prasad BN

Deputy Director of Horticulture Tumkur Karnataka

Puttalingaiah

Deputy Director of Sericulture Tumkur Karnataka

Ramakrishnaiah

Assistant Director of Fisheries (Grade II) Department of Agriculture Pavagada Tumkur District Karnataka

Renuka Prasanna NS

Sr. Assistant Director of Horticulture Tumkur Karnataka

Sreenivas PT

Deputy Director Animal Husbandry and Veterinary Services Tumkur 572101 Karnataka Phone: 9448360350 Email: tmkddahvs@gmail.com

Umesha D

Assistant Director of Agriculture O/o Joint Director of Agriculture Tumkur District Karnataka Phone: 9480330480/ (08134) 252969 Email: adatiptur@rediffmail.com

Uttar Kannada

Aravind Kumar Agricultural Officer Mundagod Uttara Kannada Karnataka

Kemparaju SK Joint Director of Agriculture Government of Karnataka Uttara Kannada Karnataka Email: jdarmgm@gmail.com

Patgar CM Assistant Agricultural Officer Kumta, Uttar Kannada District, Karnataka

Prakash Patil Assistant Agricultural Officer Joida Uttara Kannada Karnataka

Radha Krishna SG Assistant Director of Agriculture (HQ) Uttara Kannada Karnataka

Shankar Hegde Assistant Director of Agriculture Siddapur Uttar Kannada Karnataka Phone: 9449207088/ (08389) 230105 Email: adasiddapur@gmail.com

Udupi

Jagadeesha Naik Assistant Agricultural Officer Udupi Karnataka Sateesha B Agricultural Officer Udupi Karnataka

Sudhakar Shetty Assistant Agricultural Officer Udupi Karnataka

Yadgir

Banthanal Joint Director of Agriculture O/o Joint Director of Agriculture Yadgir Karnataka

Katnalli DS Agricultural Officer O/o Joint Director of Agriculture Yadgir Karnataka

Narendra Nadoni Assistant Agricultural Officer O/o Assistant Director of Agriculture Shorapur Yadgir Karnataka

Rajkumar Agricultural Officer O/o Joint Director of Agriculture Yadgir Karnataka

Siddu Teggi Assistant Agricultural Officer O/o Joint Director of Agriculture Yadgir Karnataka

FFS Team

Alavanddi Agricultural Officer (FCL) Belgaum Karnataka

Basavraj B

Farm Facilitator Shorapur Yadgir Karnataka

Channappa Angadi

Agricultural Officer (FFs resources person) Dharwad Karnataka

Hiremath RB

Assistant Director of Agriculture DATC Karnataka

Hoogar Chidambar Agricultural Officer (FFs resources person)

Dharwad Karnataka

Krishnegowda Farm Facilitator Hassan Karnataka

Praneesh Rao Assistant Secretary Zilla Panchayat Raichur Karnataka

Shabhana Sheikh Deputy Director of Agriculture DATC Karnataka

Suresh

Farmer Facilitator O/o Assistant Director of Agriculture Raichur Karnataka

Corporates

Adusumilli Narayana Rao

Consultant Scientist Jubilee Hills Hyderabad Phone: (040) 23323004 Email: anraojaya@hotmail.com

Anirban Ghosh

Vice President, strategic Planning Mahidnra & Mahindra Ltd., 5th Floor, West Wing EPU Building, Gate No. 4 Akurit Road Kandvir (East) Mumbai 400 101 Email: ghosh.anirban@mahindra.com

Ashok P Reddy General Manager United Phosphorus Limited Bengaluru

Dushyant Mullur Associate ESP Phone : 9819388748

Giri JVNS Deputy General Manager-Retail Coromandel International Limited Coromandel House Sardar Patel House Secunderabad 500 003 Phone: (040) 27842034/(040) 27844117

Jitendran K Deepak Fertilizer

Joshi CA

Dy. Manager (Team Support) Jain Irrigation Systems Ltd., CTS No. 7737/24/B, Sector 12 Khushro Nagar, MM Extension Belgaum 590 016 Phone: (0831) 2450022 Email: joshi.chidambar@jains.com

Kaushal Jaiswal

CEO Zuari Rotem Speciality Fertiliser Limited Pune

Krishna Kumar

Manager ITC Limited 31 Sarojini Devi Road Secunderabad 500 003 Phone: (040) 2780 0875

Natesh BV

Director - Emerging Markets Services Nokia, India Bengaluru

Natesh YK

GM-Crop Health & Services Zuari Global Limited Jai kisaan Bhawan Zuarinagar Goa 403 726 Email: y.natesh@zuari.adventz.com

Prabhakar Babu G

Deputy General Manager Advanta India Limited Hyderabad Phone: 9000002334

Raghulal VB

Sr General Manager United Phosphorus Limited No 3/158, Sarada Mill Road Coimbatore 641029 Email: raghulalvb@uniphos.com

Ranganathan

Deputy General Manager (South Zone Sales) Nuziveedu Seeds Survey no-69, Kandlakoya Medchal Mandal, Gundlaponchampally Village Rangareddy District, Andhra Pradesh Email: info@nuziveeduseeds.com

Seshadri BT

Executive Director Syngenta Foundation India 1 Garstin Place, 2F Kolkata 700 001 Email: b.seshadri@syngenta.com

Shirisha Gopu

Manager-SND Coromandel International Limited Sardar Patel House Secunderabad 500 003 Phone: (040) 27842034/(040) 27844117 Email: shirishag@coromandel.murugappa.com

Soman P

Vice President – Projects Jain Irrigation Systems Limited Jain Plastic Park Jalgaon 425 001 Maharashtra Phone: (0257) 2258011/(0257) 2258111 Email: dr.soman@jains.com

Subit Chowdhury

Vice President (SA & IB) United Phosphorus Limited No 3/158, Sarada Mill Road Gnanambika Mills Coimbatore 641029

Umesh Sarangi Depak Fertilizers

Vijay Singh Patel Deputy General Manager (Special Projects) Nuziveedu Seeds Survey no-69, Kandlakoya Medchal Mandal Gundlaponchampally Village Rangareddy District, AP Email: info@nuziveeduseeds.com

Virendra Goswami

Agriculture Market Development Manager Rio Tinto India 3rd Floor, The Olof Palme Marg Munirka New Delhi 110 067 Phone: (011) 2271 9071 Email: virendra.goswami@riotinto.com

CGIAR Partners

Amare Haileslassie Scientist ILRI C/o ICRISAT Patancheru Phone : (040) 30713074, 30713075 Email: a.haileslassie@cgiar.org

Ashutosh Sarker

Regional Coordinator & Food Legume Breeder ICARDA South Asia & China Regional Program 2nd Floor, Office Block-C NASC Complex, DPS Marg New Delhi 110 012 Phone: (011) 25847500 Email: a.sarker@cgiar.org

Avinash Kishore

International Food Policy Research Institute (IFPRI) Pusa, New Delhi Phone: (011) 2584 6565/66/67 Email: a.kishore@cgiar.org

Hemant Nitturkar

Project Development Officer AVRDC- The World Vegetable Center C/o ICRISAT, Patancheru Phone: (040) 30713074, 30713075

Michael Blummel

Team Leader ILRI C/o ICRISAT, Patancheru Phone: (040) 30713653 Email: m.blummel@cgiar.org

Palanisami K Principal Researcher IWMI C/o ICRISAT, Patancheru Phone: (040) 30713732 Email: k.palanisami@cgiar.org

Ramakrishnan M Nair Vegetable Breeder – Legumes AVRDC - The World Vegetable Center C/o ICRISAT, Patancheru Email: ramakrishnan.nair@worldveg.org

Ramana Reddy

Sr Visiting Scientist ILRI C/o ICRISAT Patancheru, Medak Dist, AP Phone: (040) 30713074

Ramesha

Scientist, IRRI C/o ICRISAT Patancheru, Medak Dist, AP Phone: (040) 30713092/(040) 30713074, 30713075 Email: m.ramesha@irri.org

Tek Sapkota

Mitigation Agronomist Global Conservation Agriculture Program CIMMYT NASC Complex, DPS Marg, Pusa New Delhi Phone: 7838411221 Email: t.sapkota@cgiar.org

Yogesh Kumar

CIMMYT CG Block National Agricultural Science Center DPS Marg, Pusa New Delhi Email: yogeshkumar.singh@yahoo.co.in

ICRISAT

Alina Paul Bossuet 11 Les Villes Morvues 22690 Pleudihen sur Rance, France Phone: +33 296271406 Email: alinapaul@gmail.com

Anantha KH Scientist (Watersheds) Resilient Dryland Systems Phone: (040) 30713616 Email: k.anantha@cgiar.org **Dar WD** Director General Phone: (040) 30713222 Email: w.dar@cgiar.org

Dileepkumar G Global Leader Knowledge Sharing and Innovation Phone: (040) 30713205 Email: g.dileepkumar@cgiar.org

Girish Chander Scientist (Soil Science) Resilient Dryland Systems Phone: (040) 30713173 Email: g.chander@cgiar.org

Gowda CLL Research Program Director Grain Legumes Phone: (040) 30713354 Email:c.gowda@cgiar.org

Jerome Bossuet 11 Les Villes Morvues 22690 Pleudihen sur Rance France Phone: +33 296271406 Email: alinapaul@gmail.com

Joanna Kane-Potaka Director Strategic Marketing & Communication Office Phone: (040) 30713277 Email: j.kane-potaka@cgiar.org

Junel Soriano Visiting Scientist Resilient Dryland Systems Phone : (040) 30713473 Email: j.soraino@cgiar.org

Kaushal K Garg

Scientist (Watersheds) Resilient Dryland Systems Phone: (040) 30713464 Email: k.garg@cgiar.org

Kesavarao AVR

Scientist, Agroclimatology Resilient Dryland Systems Phone: (040) 30713506 Email: k.rao@cgiar.org

Krishnappa K

Resident Project Scientist-Karnataka Resilient Dryland Systems #408, 10th block Heritage Estate Apartments Yelahanka New Town Bengaluru Phone: 09448489494 Email: k.kamma@cgiar.org

Mukund D Patil

Visiting Scientist Resilient Dryland Systems Phone: (040) 30713465 Email: m.patil@cgiar.org

Pardhasaradhi G

Manager (Soil & Plant Analytical Laboratory) Resilient Dryland Systems Phone: (040) 30713378 Email: g.pardhasaradhi@cgiar.org

Pathak P

Principal Scientist (Soil and Water Mgmt) Resilient Dryland Systems Phone: (040) 30713337 Email: p.pathak@cgiar.org

Peter Q Craufurd

Research Program Director Resilient Dryland Systems Phone: (040) 30713691 Email: p.craufurd@cgiar.org

Raghavendra Rao S

Manager (Watersheds) Resilient Dryland Systems Phone: (040) 30713376 Email: s.r.rao@cgiar.org

Rajesh Nune

Visiting Scientist Resilient Dryland Systems Phone: (040) 30713358 Email: r.nune@cgiar.org

Rajneet Kaur Uppal

Visiting Scientist Resilient Dryland Systems Phone: (040) 30713309 Email: r.uppal@cgiar.org

Sahrawat KL

Consultant Resilient Dryland Systems Phone: (040) 30713529 Email: k.sahrawat@cgiar.org

Sawargaonkar Gajanan L

Special Project Scientist Resilient Dryland Systems Phone: (040) 30713438 Email: g.sawargaonkar@cgiar.org

Wani SP

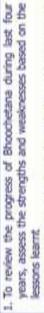
Assistant Research Program Director and Principal Scientist (Watersheds) Resilient Dryland Systems Phone: (040) 30713466 Email: s.wani@cgiar.org **PowerPoint Presentations**







-

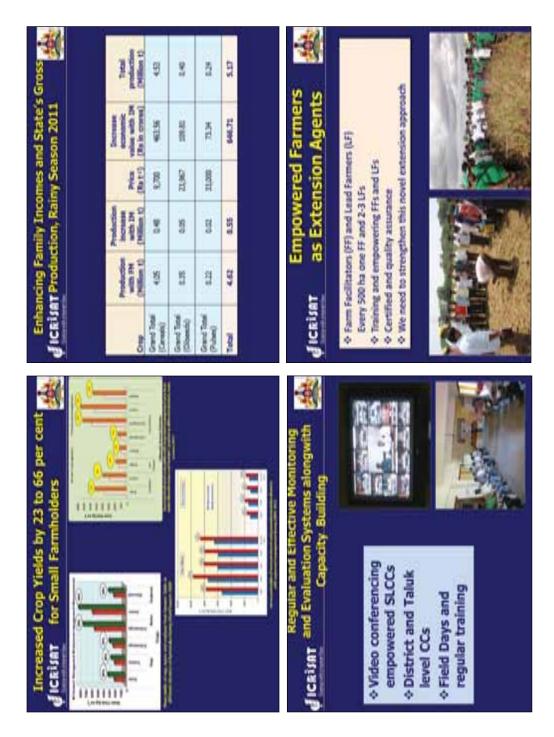


- To plan for strengthening gains of Bhoochetana thru a Bhoochetana Mission Program (BOVP) for maintaining increased agricultural production in the state and building resilent and inclusive market oriented development (IMOD) in the state. cimate N
- To prepare detailed operational plans for GoK-CGIAR initiative to establish an evidence-based and science-led scaling-up model for integrated rural development at four benchmark sites thru IMOD strategy with partnership and empowerment for sustainable development m



	- ANN	
	-	
-	•••	
	•	
U.		
	•	
•		
	-	
•	100	
=	a	
•		
_		
_		
о.		
	_	
	- 6 -11	
	100	
	100	

Company	11-1007	11-0107	11-11-11	THE PARTY OF
Same and	3	1	2.45	113
No. of detricts	8	26	2	8
No. of Vilages	1012	ana a	24024	19292
11	1	51	77	5
in disert	a	9957	H	8700
No. of least larmon	1967	12500		45500







- Sustainable growth in agriculture thru taking science at farmers' doorstep and reduce poverty thru enabling institutions and policies by linking farmers to markets
- Climate change adaptive and resilient agriculture for small farmers
- Institutionalise the process of science-led development and Research4Development (impact)
 - Strengthen innovation platform and decentralized coordinated extension system
- Evaluate spectral analysis method for soil samples
- Institutional learnings and share with other states

ficeiser System-level Outcomes

- > Improving livelihoods
- Ensuring ecosystem
 - services
- Sustainability
 (Production Profits
- Sustainability)
- > Building Resilience (ability to cope with shocks or variations



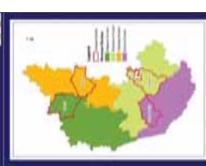


dicriser Pilot and Innovations

Four Revenue Divisions

& Pilot Districts

- 1. Bengaluru
 - Tumkur
- 2. Mysore
- Chikamangluru
 - 3. Raichur
 - Raichur
 - 4. Belgaum
- Sijapur



1				
ł	ſ			
	ļ	ł		
	l	ŝ	ŝ	
	1	ſ	1	
		4	1	

Synergy

- Convergence of CG and GoK which is unique on its own for scaling up PR4D research
- Drought proofing of the state through innovative techniques, policies and institutions for impact
 - Enabling drivers for Research for Development (R4D)
- It will be a model in Asia and the world
- Win-win situation as the platform also build capacity of State Agricultural Universities (SAUs) to emerging challenges of climate change and poverty reduction

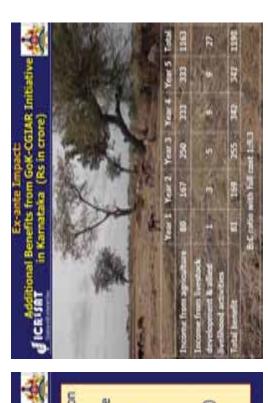


ICRISAT

Vine CG and International Centres

- International Crops Research Institute for the Semi-Arid Tropics (ICIRSAT)
 - International Water Management Institute (IWMI)
 - International Livestock Research Institute (ILRI)
- International Rice Research Institute (IRRI)
- Center for International Naize and Wheat Improvement Center (CINNVT)
 - International Food Policy Research Institute (IFPRI)
- International Center for Agricultural Research in the Dry Areas (ICARDA)
- International Center for Research in Agrolorestry (ICRAF)
 - The World Vegetable Center (AVRDC)





ICRISAT Partners

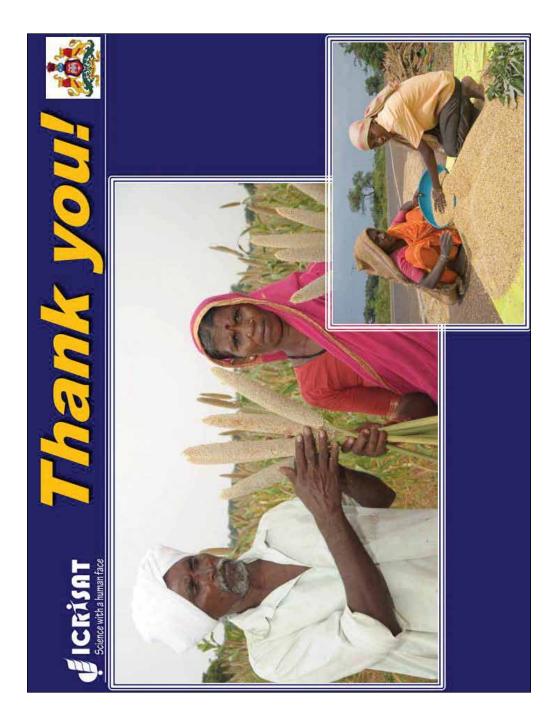
-A

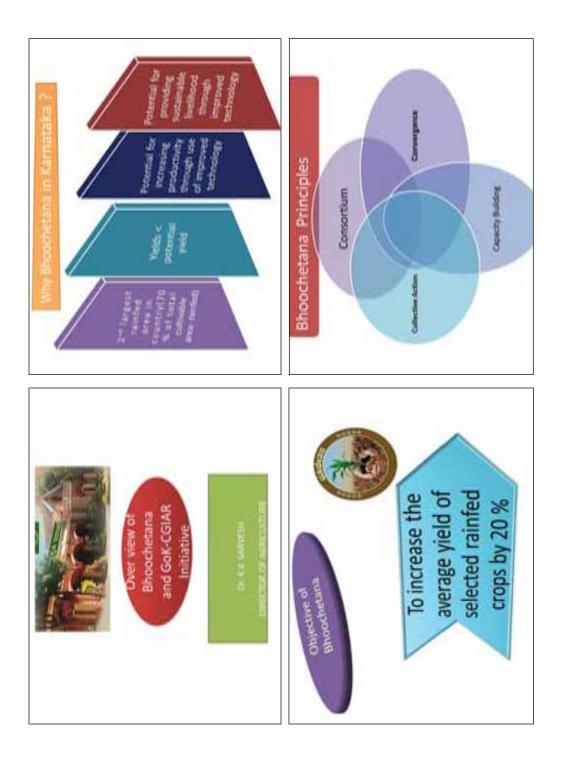


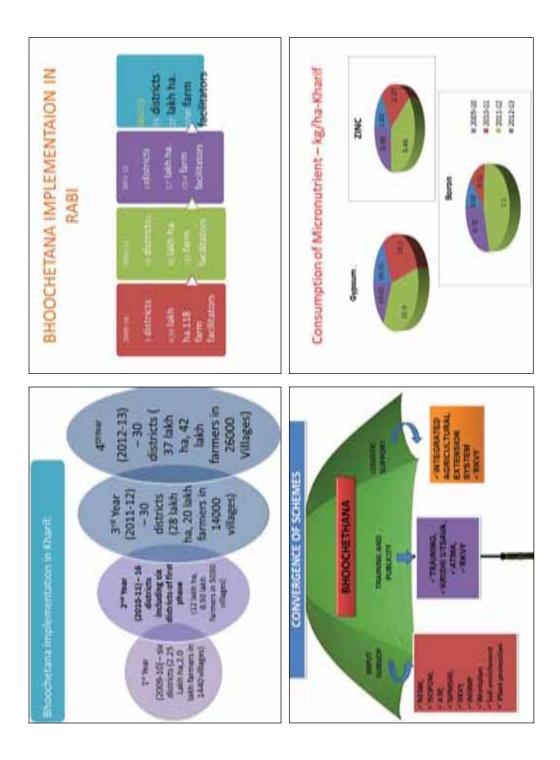
University of Agricultural Sciences, Bengaluru (UASB)
 University of Agricultural Sciences, Dharwad (UASD)

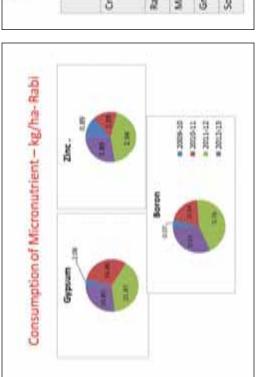
- University of Agricultural Sciences, Reichur (UASR)
- University of Agricultural Sciences, Bagalkote (UASB)
- University of Horticultural Sciences, Begaliote (UHSB)
- Department of Agriculture (DoA), Government of Karnetaka
- Department of Horticulture (DoH), Government of Kamataka
 - Department of Water Resources (WRD)
 - Department of Animal Rusbandry
- Department of Rural Development











CROPS	2	2010-11 KHARF	
	Creck pict Vectophal	Bhoochetana Plot Yield(gha)	% Increase
Ragi	12861	2326.6	36.45
Maine	4976.6	E.88830	PEHE .
Pearl millet	1665.0	1205.0	32.43
Sorghum	1612.7	2275.0	41.07
Black gram	0'056	1260.8	35.48
Green gram	1967	634.9	37.90
Pigeospea	1224.0	1648.0	34.64
Groundmat	1433.8	1862.4	29.89
Seybcan	1302.0	2491.8	38.24
Suthmer	659	2175	21.09

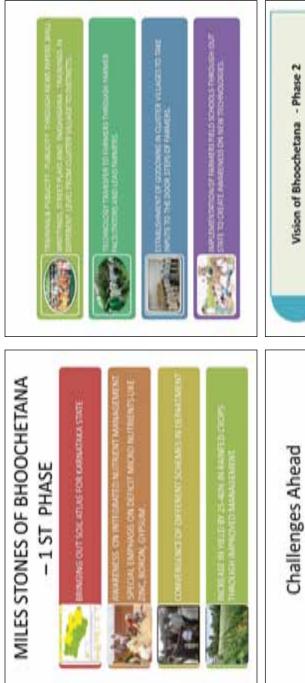
12	
PROJECT	
SHOOCHETANA I	A- KHARIF
Z	Han a
PRODUCTIVITY	

	20	2009-10
Copes	Checkplot/reid (g/ha.)	Demonstration plot Yield(q/ha.)
100	13.42	25.66
Maine	52.5	74.2
Groundhut	11.36	15.16
soybean	15.8	219

	N	VIELD (in kg/ha)	
Crep	Farmer's Management (Nor Bloochetana plant)	Ingreed mangement - Microsoftensystem	S yield
3	1450	1994	30.35
daine	4015	5362	32.13
Providential and the second	1603	1343	39.26
Sorgham	1945	2135	41.32
Black gram	615	갰	212
Svets gram	意	345	45.46
Persona in the second s	4	1390	33.22
devendant.	1631	2369	38.99
Serbera.	1977	1876	31.58
Sufferer.	1256	1736	117

These States Ton And

-



Chailenges Anead

- To cover entire dryland area with improved technology
- to sustain productivity and production
- Establish market linkages
- Promote group activities
- Adoption of innovative information communication technologis

To sustainably improve the livelihoods of all categories of farmers in the state by developing farmers' centric, science-led inclusive market-oriented integrated farming systems participatory development approach.



Budget announcement

The Horthic Chief Minister, Government of Kamataia, in Nis 2012-13 Sudget speech, has announced that "In order to ensure that our fermers in the coning years are protected from Noting throught conditions, steps have been taken to formulate special action plans in collaboration with hermational level conflic institutions upped action plans in collaboration with hermational level conflic institutions upped action plans in collaboration with hermational level conflic institutions such as international Crops Research Institute for the Sen-Add Tropics, international Activity Research Institute and International Institute, international Activity Research Institute and International Food Prolong Research Institute. Agent entrange will be designed with antimum from these Institutes, and Ingenerated on plate basis in some takabulation, which will then be extended to other areas.

OBJECTIVES

- To increase the productivity of agricultural systems by 28%.
- · To enhance average family income by 25%
- To establish pilots and innovation platforms for farmers line departments – researchers – policymakers
- To reduce vulnerability of farmers to changes due to climate variability and market forces
- To develop strategy for sustainable eco friendly production systems using selected system-level interventions.

BACKGROUND

The Department of Agriculture is closely working with International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) in the implementation of Bhoochetana, for increasing productivity of rainfed crops in 30 districts. The impact of Bhoochetana during the last three years has clearly demonstrated that farmers are benefitted with increased crop productivity ranging from 23 to 66% in different districts with different crops. O Realiting high impacts in terms of increased agricultural productivity, the State Government desired to partner with the CGMR institutions working in India in a consortium approach led by ICRISAT for "Improving neal livelihoods in Kannataka".

Consortium Partners

Operated Arrested Source Region, Darrow Simon and Bodar included Cropp Research Margane for the York Aven Project (CCUC) Control for International Nation and Whind Suprementations (2000)77 Operational South Publy Research Institute (2000) discriminal Onthe for Agricultural Resents in the Dr. Heart SCUDAL one human linearch Organisation of Data Section and Perchand by (RDVI) Construction of the North Party Concentrated Longost Reports Instant States of the local division of the local divisione Correction of Managers Science, Station Whenland Westigment Provinces (1975) Contract Non Section of the section of the Othersphered Nov Senarch Institute (200) Constrant of Manual Musical Sciences which permit is a lot to be a Appendix of Name Associate Design Children agend and the state of 「日本の」の日本の日本の日本の Concession of Name of Street, or Construction of the local division of the lo Generals Thierbory Manual Inc. Constitut Pathers

	an interaction and	spire, Numeral Spannad	Super and Clean	-	1	a during the first of fourth year!	an connectly the			1011-11-11021-1202 -11-11-11-11-11-11-11-11-11-11-11-11-11	0 410 1410	0 050 236	0 150 630	0 450 240	0 0.30 1.10	0 010 180
		11	H		i	and the second	-	· · ·		1, 2054	129	0 010	0 130	80.8	000	8C.0 U
	i	1	and the second se	ii.	1	Contrast of	11	INTERNET		16- 11-T	110 120	828 008	170 I.00	859 010	0.20 0.20	210 2.71
	 Well Count and the style-second the base pare (\$100, 11 to \$100, 15 to \$000, 10 to \$100, 10 to \$100,	of planes francing the district solution on the Contract Contracting of a Region of the Street Sound	Department of Agriculture shall be the summaries as much department and ICEOST to the restricted has been summitteen group of COME institution.	It implementant results the julk the, at the State Jawi, Co-ordination Consults and at the District level, implementation committees to be constituted.	The other of hereing will be established in the face velocied plan district	From their in the pilot districts will server \$2,000 he areas in each other during the free pare and progressionly will increase to some \$2,000 he jby the end of hourth yeard such in their districts as mentioned below.	The start of the plats site is a district may very depending on the area covered by the uninced alloges and will adout the duality approach.	COMPANYARY LENGTH	PART 8	Star Particitars 201	Reachement 3	Tarial I	TR40-Operational control 1	Cquicty Politing and Them 2 Publics	Attention of a	9 Administrationand 3.40 3.71 2.70 3.80 2.91 Providences and 2.91 2.91 Providences and prov
	11	141	14	1.5		235	10-0 F			5.76						
		-		1			41				3	120000	(article)	er val	1	11
		-		1.11	1					1	2015-III Taul	ITHROW IDOOD	term with	anat mas	TILE DAM	be summered and chemic for
COLOR		-	V	1.11		2	•			1.1		-	-			rs has to be conneled it armost and allocate the
Delected		1		1.11		2		15185		1	1012	tonic:	N.	II R	ill ill	First years list to be conselled, one heat of assumed allocate the
nainalae san		1		1.11		2)	1 x 14x pm 3/1 m		1	204-11 2015-00	tames interv	near Internet	100 H 10	and the	creen for from years has to be extracted, providing new band of armost and officerity the
THUL DIES DEICHEN	Revenue Division District	e Tamke Chimaple	states the second states	1.11	and the state of t	The same is the same same is the same same is the same same same is the same same same same same same same sam		A SACE REPORTED IN	PARTA	1	2115/16 2115/16 2012/18	amme issner Items	Note 10000 Terms	1136 0430 1130	318 348 HER	 The builter previous of \$2,206 crosss for from years has to be exampled exchanged for GRCGIME interfers by growing one head of exampt and alterate the means to the work to determine.

STATUS OF THE INITIATIVE

•As per the decision taken in the meeting of SLCC held on 21-99-2012, the ICRUSAT has been requested vide GoK letter no. D0.No.AD/ PRS/2012-13/753 dated 17-10-2012 to implement the initiative during the rabl season 2012-13 in the selected pilot sites pending approval of the State Cabinet. •The revised proposal is submitted to Government for seeking the approval of the State Cabinet.

STATUS OF THE INITIATIVE

The Hear Me Chief Whistory of Karnatadar, In Mis agriculture holger speech 2013-14 Permanent? An amounted "New Mol presented and the figureary static anti-presented presented and the figureary static anti-presented arouth, former homos contraction will be not up as per the resonance and the original devices to figurearise presented a figureary the formation will be introduced for a figureary or figurearise to the action plane is an around a static and the Sauce Government has matriced at a Mol years 4 homostation in the figure mode around a static and in the figure mode and an antiant and an anti-present to the figure and find and presented an fundation at per dis action plane is under a presented an fundation of the surface field of the figure and presented an fundation in the figure and find and the presented an fundation is considered and presented as a field and the provided an fundation is considered another and the distribution for construction and presented and the figure and the provided an fundation of the station of the presented as a field and the formation of the static station of the presented as a field and the formation of the static station of the presented as a field as the distribution of the static station of the presented as a field as the distribution of the static station of the presented as a field as the distribution of the static station of the presented as a field as the distribution of the static station of the static station of the presented as a field as the distribution of the static station of the static static station of the static s

STATUS OF THE INITIATIVE

 Two day brain storming workshop was held on 3rd and 4th January 2013, in the department of Agriculture, inviting the District Collectors, CEOs of Zilla Panchyath, District Implementing officers of Agriculture Dept, and line departments of the four pilot districts to draw the action plan for implementing the GoK-CGAR initiative in Kharif-2013.

STATUS OF THE INITIATIVE

CONSIGNITIES CARLOP OF SETTRAATIONAL AGEORIZINE RESCARCE INSTITUTES ARE.

 -International Cropt Research Institute for the Seni Arid Tropics (COSSAT) International Thirter Nanopuner Institute (TAN) International Linearch Network Institute (TAN)

elements for Reveal Annual (MM) - Construction (Note of Mark Participation) - Construction (Note of Mark Participation)

International float Pulsy Research Institutes (2010)
 International Conter for Agreember's Research in the Dry Nesse (ICUIDA)
 The World Agreement's Control (ICDAF)

The World Trapedie Centre (0'00C)

STATUS OF THE INITIATIVE STATUS OF THE INITIATIVE The pilot districts - Tumbor, Chikkamagalur, Bijapur and Raichur will make the detailed sector wise action plan presentation inclusive of- hrea of operation of selected 10000 hectares Constraints in increasing the productivity Stratergies drawn to enhance productivity Stratergies drawn to enhance productivity Stratergies drawn to enhance productivity Stratergies drawn to enhance productivity Fund available by dove tailing existing schemes of the respective departments Fund available by dove tailing existing schemes of the respective departments	cgiar
 STATUS OF THE INITIATIVE The pilot districts have identified 10000 hectares in each district. The Scientist from the CGIAR institutions have visited the identified pilot sites of the districts and have interacted with the farmers, and conducted bench mark survey. Based on the SW0T analysis of the districts the district officers of agriculture and line departments have formulated sector wise Detailed Project Report for the GoX-OGIAR initiative. 	

日の時、どの代白い

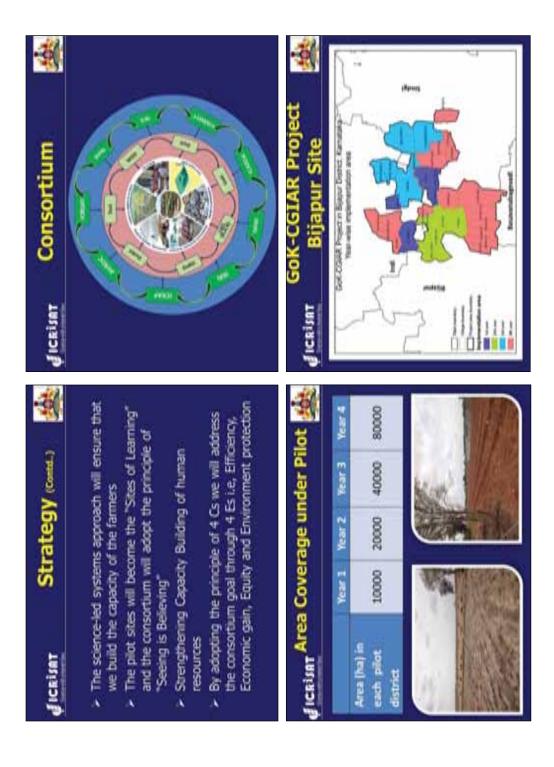


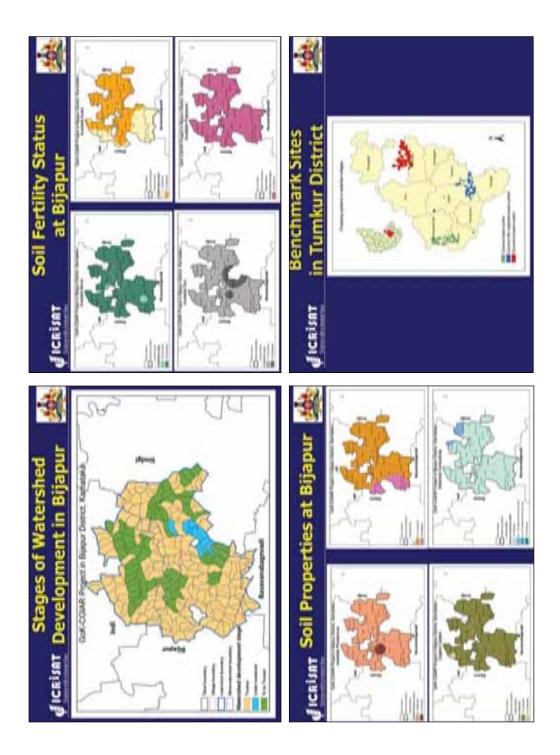
It of develop the capacity of the agricultural related development agencies in the state for enhancing the impact of the development programs through scienceled support systems

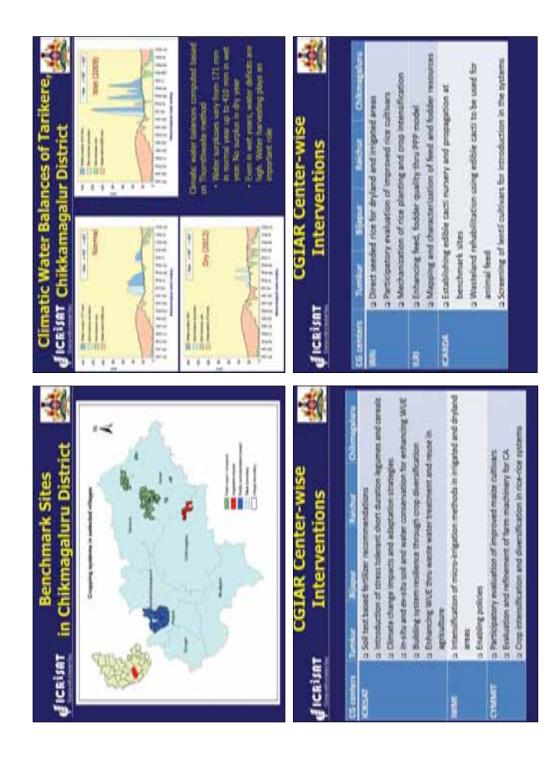
4. Beigaum

Bijapur

Constraints Across Revenue Divisions Based Consultations C	 Checking Strategy will be to build the partnerships and harness the synergy to benefit the farmers through science-led development. The man strategy will be to build the partnerships and harness the synergin to benefit the farmers through science-led development. The convergence of the line departments as well as SVUs in this monoidon will moder the institutionalization of the principle of convergence of different line departments. The approach will be a missionary one to harness the benefits
Criteria Used for Identifying Criteria Used for Identifying Criteria Used for Identifying Senchmark Sites Composition Encrement division Ecressibility Sence of suitable Presence of suitable Presence of suitable Presence of suitable Institutions Predisposition for Predisposition for	Constraints Identified during Field Wait Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-







CGIAK CENTER-WISE	Interventions
	diceisar

r Raicher Chimagalunu	pecies Ration	a Baseline characterization and impact monitoring a Policy interventions a Capacity building (knowledge integration)	2 Expand/Improved vegetable cultivation including IPM in dryland and imgated areas 2 high value vegetabliss - greengram, veg. soybean 2 Micro-entrepreneurship thru value chain 3 Capacity building and awareness rasing
(Gomters Tumbur Bijapur	a Fodder and tree species a Agro-forestry a Wasteland rehabilitation	a Baseline characteria a Policy interventions a Capacity building (Ion	2 Expand/improved wegetable dryland and imgated areas high value vegetables – gree a Micro-entrepreneurship the 2 Capacity building and awan
CG centers	MOI	1944	Xeev

C. C. Rithrichtischin Kannataka, (R.S. In. cone) C. Rithrichtischin Kann

dicking Project Outputs

-34



- Established pilots and innovation platforms for farmers line departments – researchers – policymakers
 - Increasing productivity of agricultural systems at pilot sites by 20% in four years
- Increasing average family incomes by 25% in four years
- Reduced vulnerability to changes due to climate change, climate variability and market forces
 - Strategy for sustainable intensification using selected system-level interventions
 - Build capacity of the stakeholders to operationalize
 - science-led development approach taking holistic system-level interventions

Partners

EICRISHT

ditional benefits from GoX-CGIAR

-1

Nine CG and International Centres

- International Crops Research Institute for the Semi-Arid Tropics (ICIRSAT)
- International Water Management Institute (IWMI)
- International Livestock Research Institute (ILRU)
 - International Rice Research Institute (ISBI)
- Center for International Malte and Wheat Improvement Center (CIMMYT)
 - International Food Policy Research Institute (IFPRI)
- International Center for Agricultural Research in the Dry Areas (ICARDA)
- International Center for Research in Agroforestry (ICRAF)
 - The World Vegetable Center (AVRDC)



ficeisar Partners

-30

- University of Agricultural Sciences, Bengaluru (UASB)
- University of Agricultural Sciences, Oharwad (UASD)
- University of Agricultural Sciences, Raichur (UASR)
- University of Agricultural Sciences, Begalkote (UASB)
- University of Horticultural Sciences, Bagalhote (UHSB)
- Department of Agriculture (DoA), Government of Karnataka
- Department of Horticulture (DoH), Government of Karnataka
- Department of Water Resources (WRD)
- Department of Animal Husbandry
- Department of Rural Development

















Objectives of Mission fickitat Mode Project

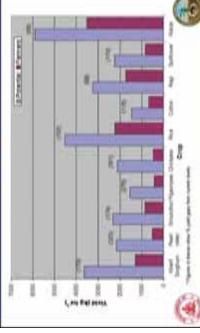
- To identify and scale-up best management practices (soli, crop, nutrient and water management) to enhance productivity by 20% of crops in 30 districts
 - To train DoA staff in stratified soil sampling in vilages, analysis of micronutrients, preparation of GIS-based soil maps. To guide DoA to establish high-quality Soil Analysis Laboratory in Bangatore. Training field staff of DoA for implementing the NRM technologies.
- To build the capacity of the stake holders (farmers and consortium partners) to implement practices in the sustainable management of natural resources and enhancing productivity in dryland areas



ŝ

B

Opportunities: Large Yield Gaps CRISET for Rainfed Crops in Karnataka

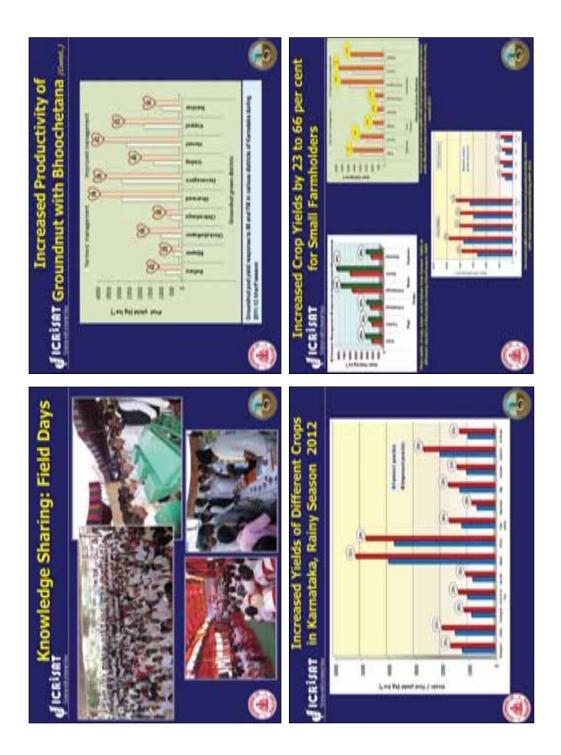


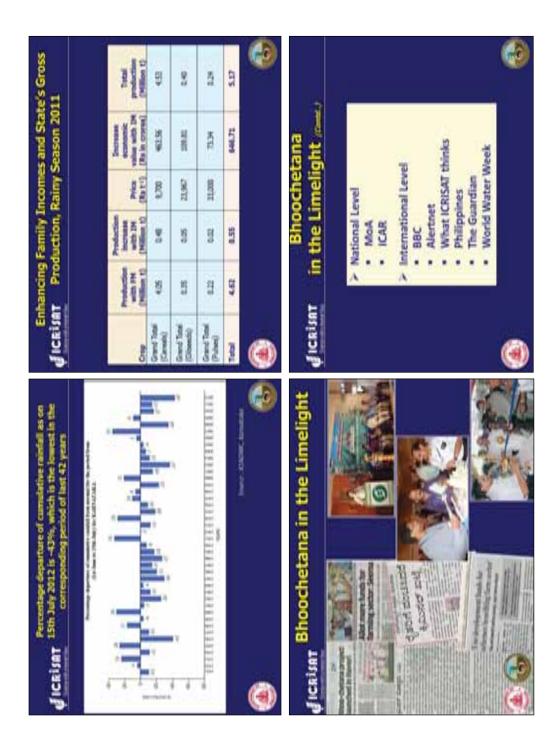
Consortium Approach

ŝ 100 5 3 5 in the second 打ち R Nutrient used (by har!) efication Bhoochetana: Mission Goal e stat Crosses. 21.87 1915 読れ Marrie W 100 CE 517 filon of micronutrients in total (tons) and per hectare (lug) under Bhoodhetana project 1000 the second 8 14 新 1 22 and a ADDE Quantify Comments (1) 氮 뎕 副 Ę CA. 1 ncreasing productivity of cr by 20% in four fouch the lives of 3.6 mil 1 1CR MOST. đ 胡 No. にあい 1 5 的問 -151 R 뎕 128 1 RE 毎四 8 191 25.70 五 12.21 î **Netson** Party in ł (Card 3 1 1 1 Distrib EICRISHT. 1000 1100 2002 1000 į ۲ ŝ ŝ der of Karnstalus Sri 8. 5. Yeddigerappa at Haven menet of Karnstalia signed an MORI on providio cheel on 23rd May 2009 by the Project Launching What We have Achieved Sect was in 1 The Elson Obstand Hearble: Chief Fe ICRESH and Gov Section 1990 diceisar dicaisat (-1)

diceiser with Stakeholders										Regular and Effective Monitoring and Evaluation (10.00) ICR 19.00 Building	 Video conferencing empowered SLCCs District and Taluk level CCs Field Days and regular training
Bhoochetana: Year-wise Area Coverage		2012 Khart	113	8	19292	5	80.5	4500	0	eased	
		10-11-11-11-11	2.45	8	24014	n	H			las Relo	
		2010-11	3	10	100	1	1997	12500		ility At	
		2009-18	3	8	2440	11	8	DIE	()	dickisar Soil Fertility Atlas Released	
diceisar		Company	the local date is	No. of districts	No of Vilages		In disease to the second secon	In dissificants			

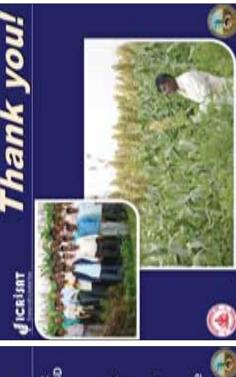








- input use efficiency into action thru science-led R4D Translated rhetoric of inclusiveness and enhancing scaling-up – holistic indusive approach
 - stakeholders on the same page Good team work Working passionately and persistently for productivity enhancement by bringing all ٨
 - Tangible economic benefits to small and marginal farmers in rainfed areas ٩
- Broke vicious cycle of supply driven approach and established demand driven mindset—Change of mindset of actors ١
- Strengthened innovative extension and knowledge sharing systems - Effective dissemination ٩



Group 2: Convergence and district coordination Feature by formers

Departments / Partners

Agniculture
 Matershed

• Ag. Marketing

- Horticulture
- Animal Husbandry

Imgation
 Geology

- RDPR

• KVIC

- Serioulture
- Fishenes

- SAUs

- Cooperation
- Forest (Social)
- DES

Credit institutes

Committees

- oState level committe
- Once in month
- objectict level committee
- CEO (chairperson)
- JDA (Member Sec)
- All district officers of line departments (Members)
- Once in Month

Committees

o Taluk level committee

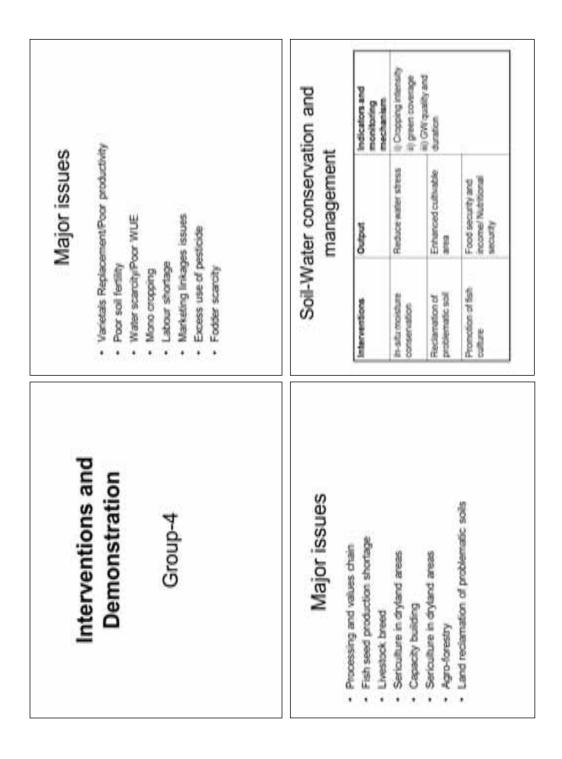
- . EO (chairperson)
- ADA (Member Sec.)
- All taluk level officers of line departments (Members)
- Once in 15 days
- Sensitization of activities at project site





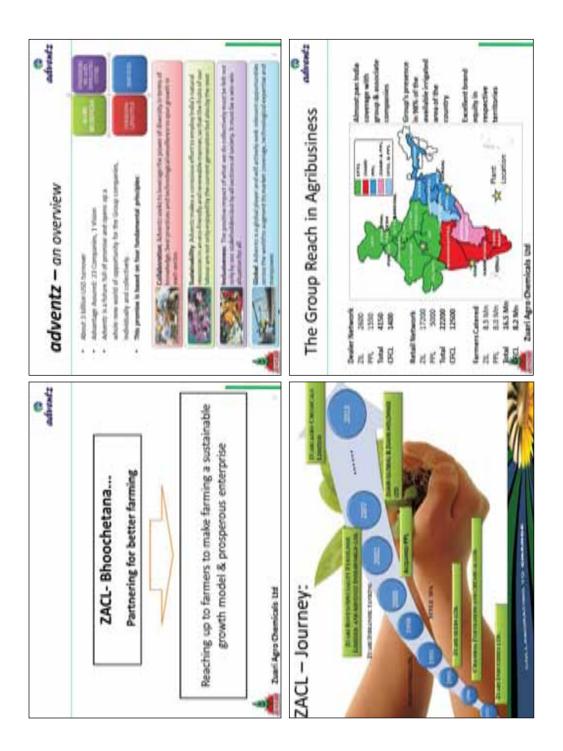


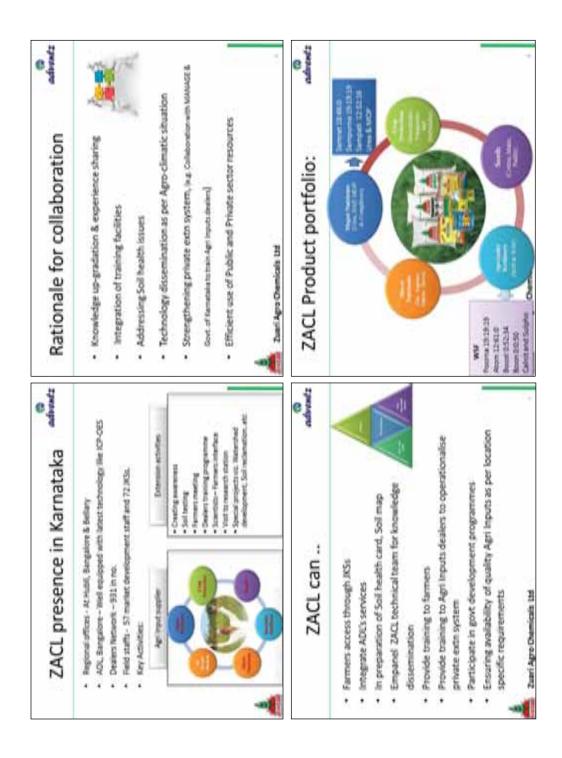


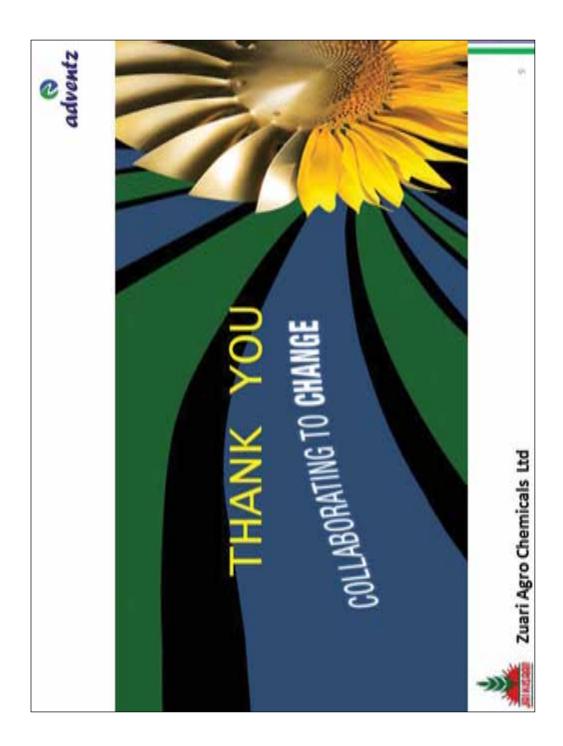


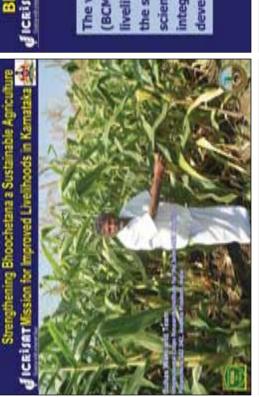
ĭ	Poor productivity	ivity	Lä	Labour snortages	ages
Interventions	Output	Indicators and monitoring mechanism	Interventions.	Output	Indicators and monitoring
Sol tetäty management	Restoration of sol health, NUE.	(i) Crop yield (i) Cropping system	Farm mechanication	Reduced drudgery.	-
Varietal replacement	Productivity			Less posimanesing losses, timely	ang recranceon
Short duration legumes and certails			Custom himing centers	uccesate	
Mamtenance of optimum plant population			Capacity building	1	
	Livestock		Nut	Nutritional insecurity	ecurity
nterventoris	Output	Indicators and monitoring mechanism	Interventions.	Output	Indications and monitoring mechanism
Breed improvement	Increased income ; Employment	() Milk and meat production,	Home stead garden (Kitchen garden)	improved health status	Diversified Diet
Stall feeding and sheep and goats	peneration, numboral security	it) Organic manure production		Income	
Animal heath camps					
Fodder production and tortification					
Back yard poultry					

		2	Interventions	Output	Indicatins and
Interventions 0	Output	Indicators and monitoring			montoring
		mechanism	Solar energy	Effective use of	# Power availability
Promation of commodity H groups	Heduction In Wastage, income	I) Cuanty and Manuel amivals	Biopas	seconces cardin	#) Increase in crop production
Establishing of processing Bunits	Bether price	II) Price for the produce	Biofuel plantation in		
Capachy building		 Holding capacity 	waste land		
IT enabled information system					
Pests	Pests and diseases	ses		Sericulture	
Interventions 0.	Output	Indicators and monitoring mechanism	Interventions	Output	Indicators and monitoring mechanism
Cropinstation Re am	Reduction in pest and diseases	Reduced cost of cultivation	Mutbery cuthration in dry-lands	n Employment peneration and	() Silk production and moone
PN and DM	nodence	Quality of produce Healty	Promotion of tree multipery	Income Cattle todder	









Icking Mission Goal of the BCMP

The goal of the Bhoochetana Mission Program (BCMP) is to operationalise an integrated and participatory farming systems development approach for increasing agricultural productivity by 20 per cent in five years through convergence and better coordination amongst different agriculture research- extension and development sectors in the state for sustainably improving the livelihoods of the farmers through empowerment, capacity development with knowledge-based and market oriented farmers' centric partnership approach

Bhoochetana Mission Program

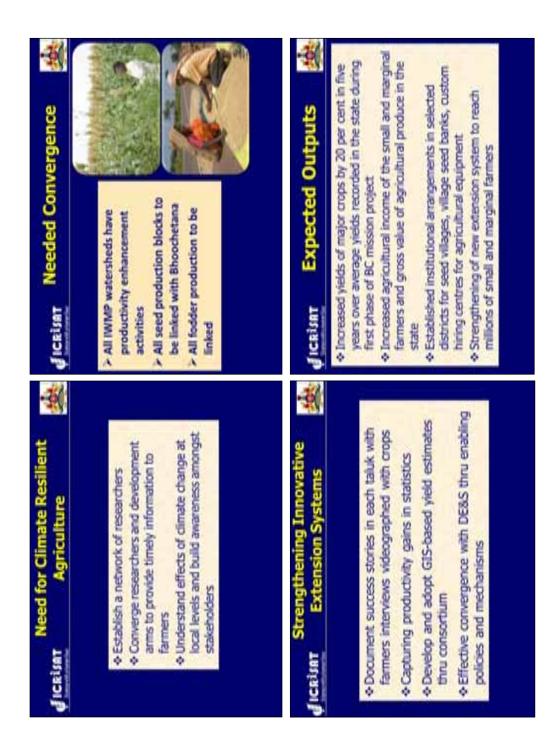
The vision of Bhoochetana Mission Program (BCMP) is to sustainably improve the livelihoods of small and marginal farmers in the state by developing farmers' centric, science-led inclusive market-oriented integrated farming systems participatory development approach

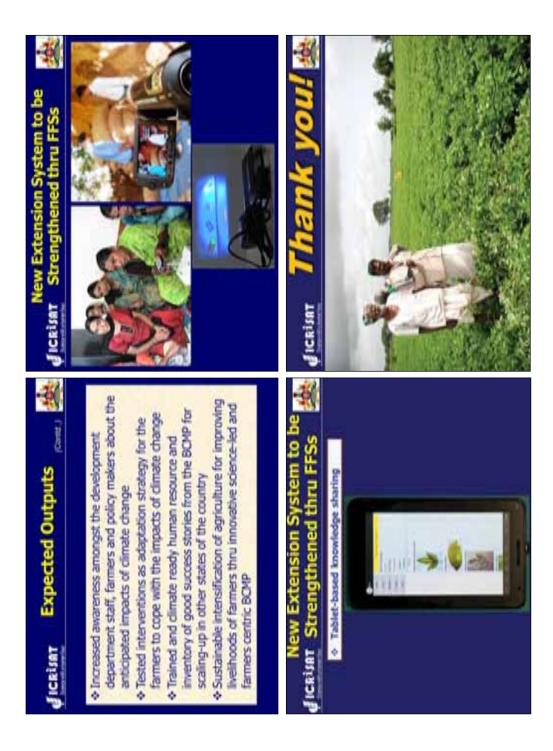
dicaisar Objectives



- To strengthen the Broodestare consortium for increasing the crups (impated and rain-feel) yeids by 20 per cent in five years in 36 distribution for ratios through science feel development and new increation network
- Is strengthen the institutional mechanisms such as seed villages, village seed banks, participatory research for development (FR4D), inputs supply approximate machinery himting contrast, fram redevision that fram facilitations and communication systems for small and marginal farmers in the state for the Dok through capacity development, convergence, collective action, and partnerships
- To assess the impact of climate change in different agro-eco-regions of the scale. In terms of anticipated shifts in the orup growing periods, water availability, major crup (whick, and evaluate adaptation strategies for developing climate resilient farming systems.
- To document the process of consortium functioning, interning, and impact of BOVP in terms of increased crop yields, institutional development and coordy building of different stateholders in the state

d ICRISAT	What is Needed	🎪 diceiser 🛛 What is New? 🎪
 Opportune tin the DoA and t development Strengthen Ib EU Project, In Ungent need t considering th ecosystems w To enhance n nitrogen use Efficient soll b Nake small fa 	 Opporture time to harness the positive energy generated in the DoA and to adopt and institutionalise the science-led development approach in the state Strengthen the consortium and inkages with SAUs e.g. Inde- EU Project, indo-US, special projects etc. Ungent need to develop sustainable agricultural practices considering the vulnerability of the fragile rain-fed agro- ecosystems while intensifying the systems. To enhance not only the productivity but also to enhance the introgen use efficiency (NUE) and water use efficiency (WUE) Efficient soil health assessment methods Nake small farm holders equal partners thru inclusive growth 	To assess the impact of climate change in different agro-eco regions of the state. In terms of anticipated shifts in the crop growing periods, water availability, major crop yields, and eveloping periods, water availability, major or plets, and eveloping systems. • Identify suitable team members from the SNUs and form a Climate Change Team (CCT) at state level to handle assessment of impacts of climate change at micro level in a coordinated manner. • Train the CCT members and identify suitable simulation models to assess the impacts of climate change at micro level in a second manner.
	Impacts of Climate Change: Increased Dryland Areas	 Climate Change Network Collate The Network in the State Collate the historical weather data sets, solis information and put them in suitable format after quality check for use in the Comodols. Assess the impacts of climate change on changes in the agroe conceptors in the state, crop growing period, crop yields, and identify suitable crops as adaptation strategies in the tagroe conceptors in the state. Evaluate selected adaptation strategies in the theorem inpacts of climate change. Evaluate selected adaptation strategies in the theorem in the state. Evaluate selected adaptation strategies in the state. Develop awareneess amongst the formers in the state. Develop awareneess amongst the formers in the state about the potential impacts of climate change on their crops and information strategies based on the results of the participation strategies based on the results of the participation valuation of adaptation strategies have been used on the results in the benchmark locations.





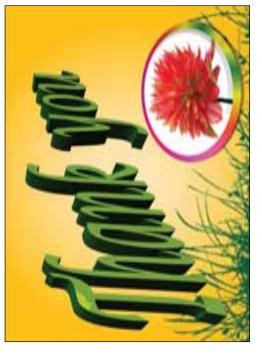


						NEWONSTRATION UNIVERSITY OF THE PARTY OF THE		200	-				C'EE	CUDDA1C					
8	VINNELL	ouwrith	-	PIECO	PROCEEDS	Suudo	-	PENNING				1							
			STAN STAN	88	36	1000					1	1	-				1		
UAS, R	RAJCHUR	2S									1	11	11	1	6	11	1	1	1
Party mayned	9-stad	#	2 2	102		21	Å	a not on	Derivation and particular	1 entropy	ant	100	0	1	ff.	81	W	*	1
							i	that to man receipt of		1 1000	ILINA MODICA D		8	-	*	8	2	8	1
				-				have been an	i	1 hunt		104	00.0	100	8	8	*	*	8
				+						and a		10474	-	and the	-	Desage	1111	-	1941
and the second	10.00		8	-			8	1	Cops in normal 4 to 5.	1 month		154461	100	STARS (1991) INVESTIGATION	Same a	12786	212700	*	1
				-			-			1 NEWLOOD			8	Ņ		8	8	*	8
1	8	3	5	-	8	5	8	Drop Indus due to	1	7-540			4	a,			4		*
				-			1	some of a solution	1	8	TRUCK DVINC	and	TTHE ALLOS INC. MARK	SOME NC	ĥ		95296	8	139431
				SASTIN	E							\bigcup	OIL SEEDS	SE	DR.				
						-							Sales Target	Will.		4	Contraction of the local division of the loc	T	
03	100	45	See 1	See byt	1	8	Alcolory .	R I		- P - R		112	日月	3	5	81	8	1	Ţ.
_		1000	貢								-	10	e4000	ŧ	*	-	1	1	-
1 COMPLET		605	8	1000		0 690	8	0	8	Time T	ABC STREET	Ħ	ł	No.	*	*	ß	8	ũ.
	1	-			1			1	1	ļ	Numero	1007	Non T	R	•	1100	8	1	trees
WWWSSTEP 7	2000	atie .	11		1		1.1		Cont .	ł	A 100 LOS	1	Į	No.		-	ŝ	1	ALC: N
1 ELOCION	and it	1907	200er	4250		0 200	10	2	1110	Ļ	Second Visco	P	009		•	•		8	1004
A REDCHIMM		8	12845 12845	15M		Sol Inco	0011 0601	6				and a	1	CLUMP I	CATHON PLANE PATTON BARTON	1	1	1	
Purity Shots		二十十十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	No. of Lot of Lo				二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十												

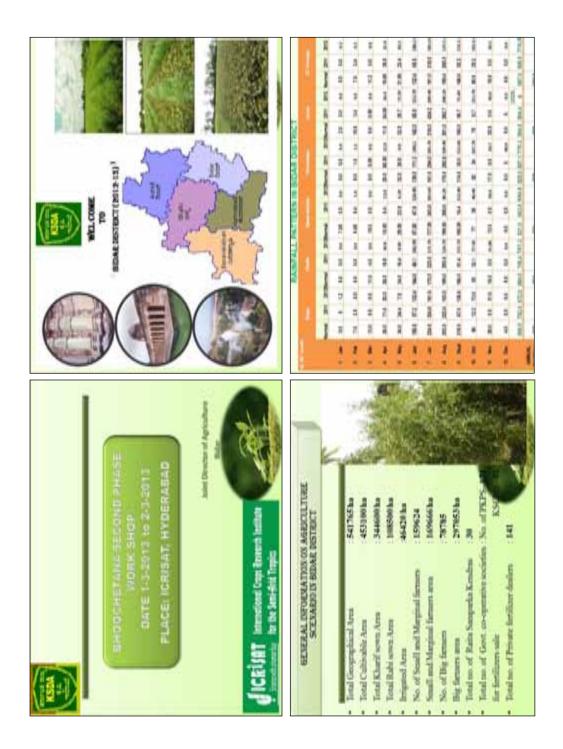
MARRETY YEAR OF OR ACE AS ON OR MULF-3 1501 NAMBETY YEAR OF OR ACE AS ON OR PS-2012 1501 PS-2012 1511	ege a	I S OF VARI	FTAI NOT	TEICATION	4PAGI IN	INDAF-7	1964	200 C
MARETY YEAR OF 00 AGE AS OM 00 AGE AS OM 00	CROP			NOTION I	N	DAFS	1987	22
NUTPICATI 2012 PR-2012 1916 1916 N 135-1 1934 23 HR-311 1984 1987 PYESHODA 1934 23 HR-311 1984 1987 PYESHODA 1997 15 CPU-26 2000 1986 CSH-16 1997 15 CPU-26 2000 2001 CSH-230 2009 3 CPU-26 2000 2000 CSH-230 2009 3 CPU-26 2000 2000 CSH-230 1986 2009 3 CPU-26 2000 CSH-230 1988 201 BR-66 (Dhyw) 2006 2000 CSH-2300 1988 24 L-3 2000 2000 CSH-28 188		VARIETY	YEAR OF	AGE AS ON	N	DAF-9	1968	24
N. M. 35-1 ON M. 48-1 1984 28 P.YESHODA 1984 28 1984 28 CSH-14 1989 2 2000 12 1886 1886 CSH-15 1999 2 2 2005 7 0 1886 2001 CSH-13 2005 7 0 0 2 0 2000 2 0 1886 2001 2000 2 0 2 0 1 0 1 0 1 0 1 0 0 1			NOTIFICATI	2012	å	8-202	1976	2
(* M 35-1 1984 28 Mer-1 1984 28 PYESHOOA 2000 12 0PU-26 220 0PU-26 2000 CSH-14 1990 22 0PU-26 2000 22 0PU-26 2000 CSH-16 1990 2 0PU-26 2000 3 2001 26 26 2001 26 </td <td></td> <td></td> <td>NO</td> <td></td> <td>Ŷ</td> <td>8-811</td> <td>1987</td> <td>12</td>			NO		Ŷ	8-811	1987	12
PYESHOOA 2000 12 Lenstore 15	1JOWAR	M 35-1	1984	28	19	2	1968	15
CSH-14 1990 22 000 22 000 200		P.YESHODA	2000	12		2	1000	
CSH-16 1597 15 CPU-28 2000 2 CSH-23 2005 7 CPU-28 2004 2 NuH-2049 2009 3 CPU-28 2 2006 2 NuH-2049 2009 3 CPU-28 2 2 2 2 NuH-2049 2009 2		CSH-14	1990	22			-	
CSH-23 2005 7 CPU-45 2005 3 MuH-2043 2009 3 CPU-45 2001 2001 MuH-2043 1998 24 2001 2001 2001 MuH-2043 1994 2001 2001 2001 2001 MuH-2043 1994 2001 2001 2001 2001 MuH-2043 1994 2001 2001 2001 2001 MuH-2043 19		CSH-16	1997	15	3	SU-CR	2000	
ANH-2043 2009 3 CPU-45 2001 2001 NAH-2043 158 24 NAH-2043 2001 2001 NAH-2043 151 24 No 2001 2001 NAH-2043 151 24 No 2001 2003 NAH-2043 151 24 No 2001 2003 NAH 151 151 24 No 2003 2001 NAH 151 151 151 151 151 151		CSH-23	2005	7	8	PU-28	1958	10
NAH-2043 2009 3 CPU-48 2009 3 ICTP-62013 1988 24 2009 3 2004 2					3	PU-45	1002	Ŧ
L3 240 L3 2000 2000 MCH P42003 1938 24 MC-4(10)w(st) 2000 2000 MCH P42003 1938 24 MC-4(10)w(st) 2000 2000 2000 MCH P42003 1938 24 MC-4(10)w(st) 2000	ZMAZE	NAH-2049	2009		0	21-42	2009	~
CTP-8203 1988 24 MC-8 Dhysio 2006 All 151 151 151 151 151 2006 All 151 151 151 151 151 150 150 All 151 151 151 151 151 150 15					2		2002	05
ACA 1511 151 <th>3BAJRA</th> <th>ICTP-8203</th> <th>1988</th> <th>24</th> <th></th> <th>R-6(Diroya)</th> <th>2008</th> <th>*</th>	3BAJRA	ICTP-8203	1988	24		R-6(Diroya)	2008	*
(A.2) (A.1) 34 (A.1) 34 (MAMEAA 5713 21 (A.1) 21 (MAMEAA 5713 21 (A.1) 21 (A.1) (MAMEAA 5713 21 (A.1) 21 (A.1) (A.1) (MAMEAA 5173 1517 21 (A.1) (A.1) (A.1) (A.1) (MAMEAA 1517 22 23 (A.1) 23 (A.1)		0	105	×				
1813 27 28 1817 26 36 1817 26 36 1818 36 36 1818 36 36 1819 36 36 1819 36 36 1818 36 36 1818 36 46 1819 36 46 1819 36 46 1819 36 46 1819 36 46 1819 36 46 1819 36 46 1819 36 46 1819 36 46 1819 36 46 1818 11 46 1818 16 46 1818 17 46 1818 16 46 1818 16 46 1818 16 46 1818 46 46 <t< td=""><td>-</td><td>8</td><td>1671</td><td>3</td><td></td><td>200-002</td><td>teet</td><td></td></t<>	-	8	1671	3		200-002	teet	
1877 35 2000 100 <td>ER.</td> <td>AMSA</td> <td>1010</td> <td>£‡</td> <td></td> <td>王法</td> <td>1000</td> <td>2</td>	ER.	AMSA	1010	£‡		王法	1000	2
1982 20 Xxxxxxxxxx 1982 20 1980 21 24 24 141 141 1980 22 24 24 141 141 1980 23 24 24 141 141 1981 23 24 24 141 141 1981 24 24 24 24 146 1981 24 24 24 24 26 26 1981 11 24 24 26	5	OTHE	1251	22		おき	1961	27
1111 24 1511 23 1511 23 1511 23 1511 23 1511 24 1511	N.		1962	2	ACCESSION.	242	1961	h
100000 24 10000 24 10000 24 1000 </td <td></td> <td>1021</td> <td>1211</td> <td>2</td> <td></td> <td></td> <td></td> <td></td>		1021	1211	2				
1880 25 1880 25 1880 25 1880 25 1891 25 1891 25 1891 25 1891 25 1891 25 1891 26 1891 26 1891 26 1991		PA (BOADIA)	tant	***	and allowed	a na	101	5 5
1880 13 14 191 191 1881 21 21 191 191 191 1881 21 21 20 191 190 1980 10 20 20 20 190 1984 11 200 20 200 200 1984 17 2000 200 200 200 1986 14 200 200 200 200 200 2004 2004 20 200 200 200 200 200 2004 2004 2004 200 </td <td>10</td> <td>-1984</td> <td>1921</td> <td>1</td> <td></td> <td>1</td> <td>10m</td> <td>-</td>	10	-1984	1921	1		1	10m	-
(1991 21 3001 9601 9601 1992 1993 10 3001 9601 9601 1993 11 3001 3001 3001 9601 9601 1993 11 1994 10 3001 3001 3001 9601 1993 11 11 11 11 11 1101 <td>h</td> <td>T-8204</td> <td>1303</td> <td>8</td> <td>and APPOINT MAN</td> <td>7</td> <td>101</td> <td>1</td>	h	T-8204	1303	8	and APPOINT MAN	7	101	1
1980 20 304 300 101 1984 11 Loon 1.441 20 1184 11 Loon 1.441 20 20 1184 11 Loon 1.441 20 20 1184 11 Channel 1.441 20 20 1184 11 Channel 1.441 20 20 1184 118 Channel 1.44 20 20 1184 118 Channel 1.44 20 20 1184 118 Channel 1.44 20 20 20 1184 118 Channel 1.44 20 <td< td=""><td>1</td><td>*</td><td>tast</td><td>n</td><td></td><td>and.</td><td>1965</td><td>151</td></td<>	1	*	tast	n		and.	1965	151
(i) 1284 (i) 1284 (i) 1284 (i) 2004 1 11 17 webcolut 17 webcolut 16 1 11 17 webcolut 17 webcolut 16 1 16 17 webcolut 17 16 16 1 16 16 16 16 16 16 16 1 16	- NI	CAN .	1982	8		i i	1940	2
1996 17 490 1996 15 19 1997 15 19 1998 15 19 1999 14 19 2000 12 19 2004 12 19 2004 12 19 2004 1 10 2004 1 10 2004 1 10 2004 1 10 2004 1 10 2004 1 10 2004 1 10	51	N-1 (Multichil)	184	11		RASHIN (B423)	2008	*
1667 15 116. 161 1568 14 Churthis 141 1568 14 Encl. 146 1568 12 Encl. 146 1568 12 Encl. 146 1568 12 Encl. 146 1564 12 Encl. 146 1564 Encl. Encl. 146	難	ADDRA	tint.	17	The state of the s	NE	tint	19
1586 14 004,41114 1860 1860 2006 12 Reducts 1860 1860 2006 6 CP4,4011 1860 1860 2006 12 Reducts 1860 1860 2004 8 CP4,4000 1860 1860	and a	10-1001	1967	15		一人の意味	1948	R
2006 12 2006 13 2006 1 1 100 2004 6 1 100 2004 8 0 100 2004 8 0 0 2004 8 0 0 2004 8 0 0 2004 1 1 0	XF	74	1210	14		CPLATHS	1962	
2006 6 2004 8 2004 8 2004 8 2004 1	-MC	12-1810	2002	12		No. of Concession, Name	and a	
2004 8 2004 8 2004 8	H	112001 [Tangal]	TOOL	-10		CPC-4001	- the	1
2004 8	8	2-1798	2004			and a second second	1	1
	8	1.24	1001			The Local Division		

		-		THE PARTY	1001
15	2040	4		田田	1 tem
	1281	22		おいた日	1
	1962	R		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and a
	1151	2	-	200	R
Shadra)	1980		Southeast of the second	R	1444
-	1987	22		IN	1194
	1981	10		2	
204	1303	2	INTO COMMIN	7	tat
	1881	n		and .	1965
	1962	2		TR.	1980
CTN-1 (Multichil)	184	11		STREET UNCON	208
a	1995	17	N BROCKAME	1/16	1
HOL	1961	15		一川加速時	1968
	1995	te		CPL4TTH	the
010	2002	12		No. of Street, or other	
DOI [Turgal]	2006			Chudder	
96	2004				
	1001			CP. COT	Cont.
10-18	2002	15		and the second s	
	2008			のないの	

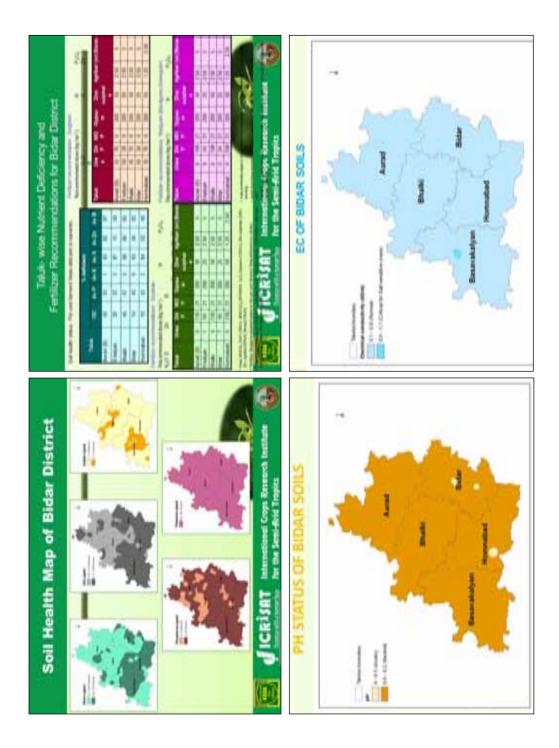
	A.SUWDHA	A.ANAMIKA	1-1094	ALSULATHA	PUSA JWALA	6.4.3	a entitletto
VEGETABLE	BEANS	BHENDI	TONATO	RIDGEGOURD A.SUJATHA	CHEM	HEBGAL	COM INI

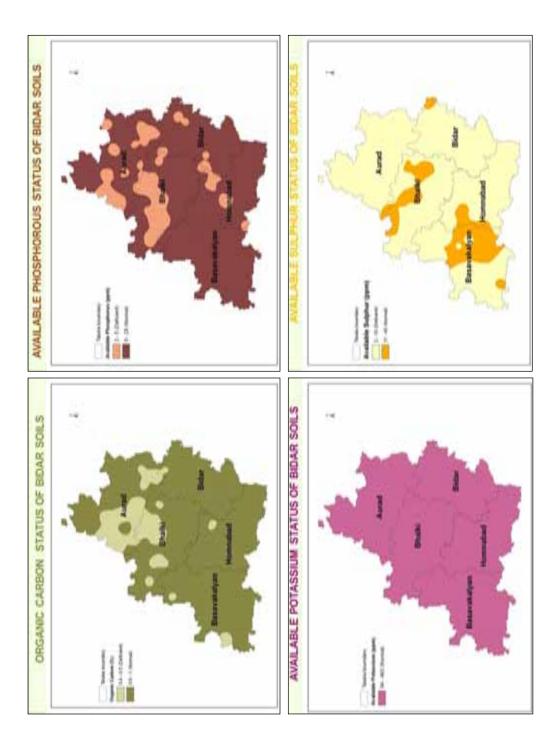


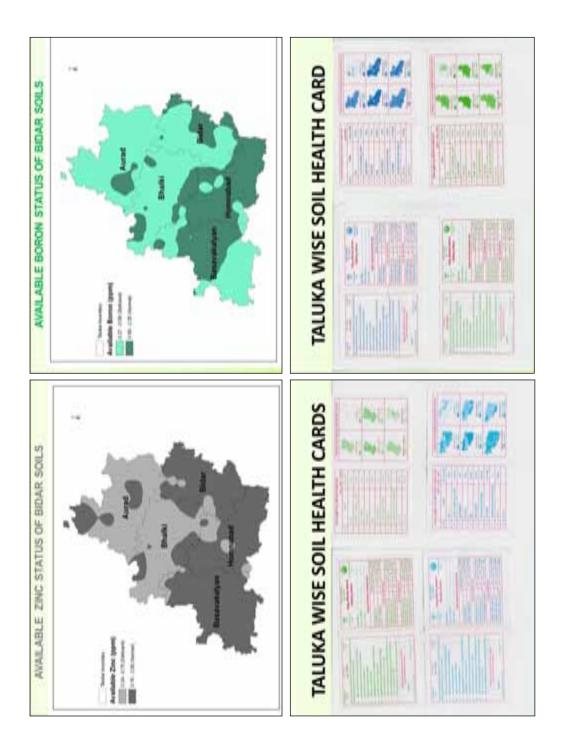
YIELD ANALYSIS DATA OF BHOOCHETANA BLOCKS IN MYSORE DISTRICT	Yield in Bhoochetana block Average Qntls/ha. Yield in	Average YieldHighest YieldLowest Bhoochet ana blockDifference %	55 65 40 40 15 27	25 34 15 20 5 20	50 75 20 45 5 10	5 7 2 4.25 0.75 15	5 15 3.5 1.5 30	10 16 5 11.25 3.25 33	
NALYSIS DAT	Yield in Bhooc Qntls		-						0 75 32
YIELD A		Crops	Paddy	Ragi	Maize	Cowpea	Avare	Groundnut	
		SI No.	7	2	3	4	5	9	Г



MAIN ORIECTIVES OF BROOCHETANA		1	BOOCHETANA COVERED fo	DOCHETANA KHARIF AND RABI TARGET & AR COVERED for 2010-11, 2011-12 and 2012-13	AND RA	BI TAR	KHARIF AND RABI TARGET & AREA c 2010-11, 2011-12 and 2012-13	*
	Tear		2010-11		201	2011-12	280	2012-13
INCREASE THE FOOD PRODUCTION IN RAIN FED AREAS	I Same	Couple)	Area (bu)	And	Total .	and (a)	11	1]1
		and and	12om		-	Thet	Turner.	inter a
ORECOMMENDATION OF MACRO AND MICRO		Tablers .	STATE .	STORE .	Times .	1100	00000	
NUTRIENTS UN SAGES UT SUEL ANATALISIS		Tenner	10 cm	11100	- HOLE	-112208	42000	100
ATO MAINTAIN THE AND DEBTH ITY		Ribers	THE	19284	- 27114	No.	ancres .	- annas
		Colors of					112mm	and the second
INCREASE THE YIELD POTENTIAL UPTO 20% FROM AURDALOW VIELD	Khartf	3	and .	SANDY ENDA NORM	1Clarks	TLUMPI I	MACON	204028
ATTINUE INTO	-	and surface	100	100.1	-	1053	-	15440
◆UPLIFTMENT OF SOCIO ECHOMIC CONDITION OF	172	Distant	N	1280	11641	1	100022	20465
FARMERS OF RAINFED AREA.		Indiana	10.23	100	actes.	- CDA	111000	194214
		-					18700	131957
		7		TARL COMPLEX	Futor	and and		
	l	100	-	104101	4.	Different of	-	Adding a
			1112253	(MACCAR)	202566	(married	412236	(MULTING)
TALUKA WISE BHOOCHETANA KHARIF TABGET AREA &SOWN		ALLINA	HE 351M	TALLIKA WISE BHOOCHETANA	INA RAD	II TARG	RABI TARGET AREA	4
ACC ADDRESS AND ADDRESS ADDRES	11		SC	SOWNAREA 2012-13	A 2012	Ę		1
		1	1	1		i	1	
lz z lz z lz z lz z z	1	h	h Ih	h 12	わ 相	h 由	h h	111
	h	t	I	r R	1	1	1	1
	1	1	1	1	1	1		1
	1	1	1	1	1	1	1	
2	\$1 •		1	1	1	н. К	1	8
the search of th	11		1	1	1	8	1	1
	1	i	1	1	1	ì	1	1
	T Diless	i	1		1	1	1	I
	3	-	-		-		-	-
						l		



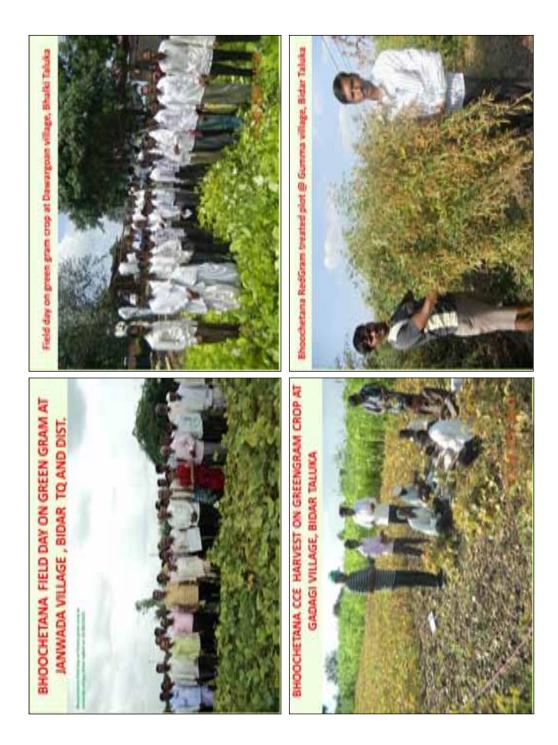


















	1	RICE	Sector St	5 INDER \$60006 06TRUT 2012-13	SUCCESS STORES LINCER BHOODOFTAMAL IN BIGAR	N SCAR		4	1	append technologie algorithy farme on the parties	- H.H.H.	One word before average the doors momentation Planting across for disp bedies over branch with a	One work bolies areing of the seek, memorimum were applied as per the down memoratories as band diverge and mind in soil finding accumption for the foreindense bolies were insured with the foreindense Maintimed the memorided plane population		The second se	1 mg
Intelligence Telligence Intelligence Intelligence Intelligence	a l'ellate	Terme tune Are Addrese		and the second	St Solician III	and the second second	of Det				199.		and the second s		and cost	
Johnstein Johnstein Image: State	Tarkita)	A faith forget Cop tol water	a Linds	Lansi Inga Dang Unan	E.G., Annel 1944 Randol Sonny				12	A yest bear	-	A pine parts	of quantity per act			
	a) Teller	Data (picture) Data (bereat		の市内	of application				1	for your levels of depress of the real characters.	and the second	and put	of states of the second second	9		
		and the second s	1.		the second	1		1	日二日	start land	1	a L'Hipitela	ne act (15 % over	and per		
				The pill Pril 401	Annual Contract of	-	N.		1.4 H	And And	121-1-1-2	the latent is a second		S	No.	
		TALUK	NIN D UNI	E DRY DER B	HOOCHE	TNA FO	R THE	TO BE FYEAR	TA	UNDER I	SE DR	CHETNA	FOR THE	A TO BE YEAR 2	COV	4 4
			1	1		1	1	ł))	1	1		ļ
	.1	-	11	32	(Independent)	N IN		Name of		1	2 1	1		-	11	1
		and yes	l	01201	TIME	MACT	motor	10000		1	1	1			1	1
	-	and the	1	ļ	100	Į	10002	-			1	1		1 3	1	1
		1	1				-		1	1	1		1		1	1
		-	1	-	10001		20002	-	4	1		8	1		8	
	-	-	8	8	-	-	8	Ł								
ALL IN MA DIE 10 10 10 10 10 10 10 10 10 10 10 10 10	-	1	1	8	1000	1	R	ant		1	1	1	1			1
the second secon		11	. 1	1		8	N Nor	1 Marca		3	Ĩ	1	1		ł	

Turner	4		11		_	
- Not to the second states and st	8	475	390	345	805	0100
H	8	58	81	8	100	000
	124	130	112	8	151	500
n li	60350	00055	78500	69100	100550	403500
i	ž	N.	B.Galgan	Humabad	hurse	Total
1	H.	-	4	4		

5	2
2	ł
d	5
ę	ŝ
č	2
ŭ	ł
ä	2
ź	ŝ
2	1
ž	5
Ē	1
ι	į
1	Ģ
2	Ś
5	į
ĩ	1
h	1
z	g
ç	5
S	2
ä	ŝ
1	1

KA WESE SUCANE ABEA TO BE COVERED UNDER BHOOCHETHA FOR THE YEAR 2013-14

4	Table of the local division of the local div			Table I	
	BEDAR	SUCARCANE	2000	\$	
	BHALKO	SUCCERCANE	2000		- 10
	RASVAGLETAN	SUCARCANE	3000	ţ	-
	HUNNARAD	SUCARCANE	2000	8	
	AURAD	SUGARCANE	1530		30
Ì	TIGTAL	and the second	12506	3	22

3	-	of Bidar
3		2013-14
12508	-	r inputs
		plan fo
		action
TICUTAL		oochetana.
		Bh

Requirement of Inputs for 2013 - 14 of Bidar District

										District	ti	
	x						ŝ	1	Ĵ	ļ		Indexession put
	5	Å	fore	Genere	Å	Born			Bushier	New York	854	Amonda
the second	- and		203	ares a	146	124						
Della	1		1		1			Bider	n	a	7	E.
Shale	14550	1455	587	71275	122	242						
								Bhulki	ņ	n	8	1
Basav	17225	112	104	6112	104	100						
Eahan								Batav Kalgan	8	ŋ	<u>8</u> (
II wantered		376	144	1000	1001	546						
Luciona	1		Į.	ł,	ł	e.		Remarket	Ð,	n	я	8
Aurad	10551	1530	510	7653	392	355	-	ł	8	я	и.	•
Total	10188	1575	1960	31298	1111	8		Į,	R	n	8	4
					1	1						

白 麗

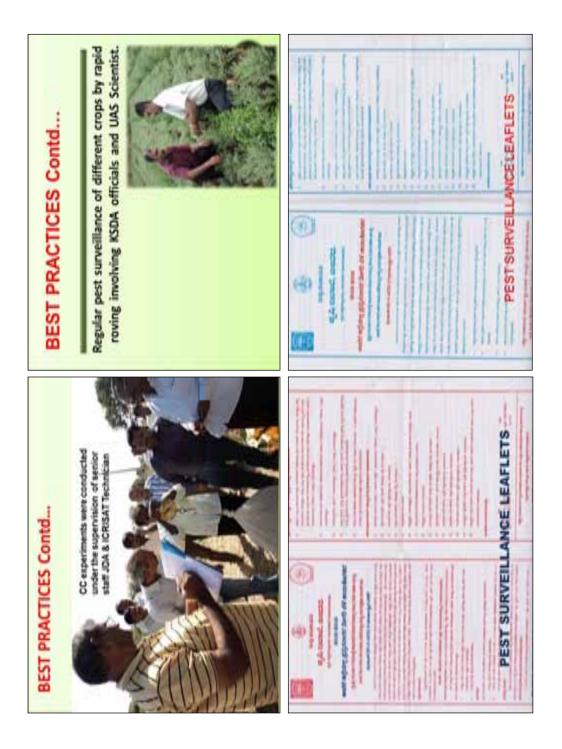
8 8 2 9

* took

CALENDAR OF EVENTS	CALENDAR OF EVENTS UNDER BHOOCHETANA FOR 2013-14	CALENDAR OF J	UNTILES UNDE	CALENDAR OF ACTIVITIES UNDER BHOOCHETAWA FOR 2013-14	FOR 2013-14
TAM SCHOLE	PROMINE				
PART WHEN DO APPEND	permetring wowever	INTERCORDE		PECCANNE	
recover wells of aver.	ADIEND RODERON	FAULT WENT OF LANE TO RECOVERABLE OF ALLOSS	D INCOMPANY OF	INVESTIGATION AL NOTABILITY INVESTIGATION INVESTIGATIONI INVESTIGATION INVESTION INVESTIGATION INVES	AF CLIETTER NULLE
THE OWNER AND	SUPPORT INC. TON			(12) HERIO DAL XILION (MARS) DROG FORMATON DOCOMINATION OF	COLUMNESS OF THE OWNER OF
LAST WELK OF APPL.	TAMPAGE TO FACULATION			travis intellier involusion coo	There is no believe
PRICE ALLECCY MARY	REPORTED TORSES	Treat with or August		Filling on the particular	1000
NAME OF TAXABLE PARTY.	ALAMPS RECETTATION & SOL SAMPLINE				
AND AD STATE OF A	WILLTON OF ILLIO IMMERIA TRAVING TO IMMERIA STOLETIA YULKE	Failt failt de lorgement fouldt mark	NET TO LAST WERE	DOF CUTING SPERARMENT AND DOCIMENTING ON PERSONS	MENTING ELIDEL
AND 2P onwerts	PLANOTY & STOOMS OF MANTER AT OLIVERS				
			Yield levels (kg/hu) ander Boochetana Prugramme 2013-11 Philie Disevent	kg/hoj under pranne 2012-11 Horiett	
MAJOR	MAJOK ACHIEVEMEN IS:-			24232	
The yield increase in	,u				
 Green gram (33%) Blackgram (29.50%) 	6	ł	1	Perform New N Table and	I
Soyabean(30.50%)		Omigine .	6	- 184	NOT .
Hybrid Jowar(27.00)			E	ana	8
A Redgram(31.80%)		Setting	1961	un	No.
Sengalgram (28.70%)	8	-track	1	1001	NUL.
	- Net	-	1	I	-
	P-INCO	Ridman.	- LEW	M	6









Adoption of package distribution system comprising all the three micronutrients.





BEST PRACTICES Contd...

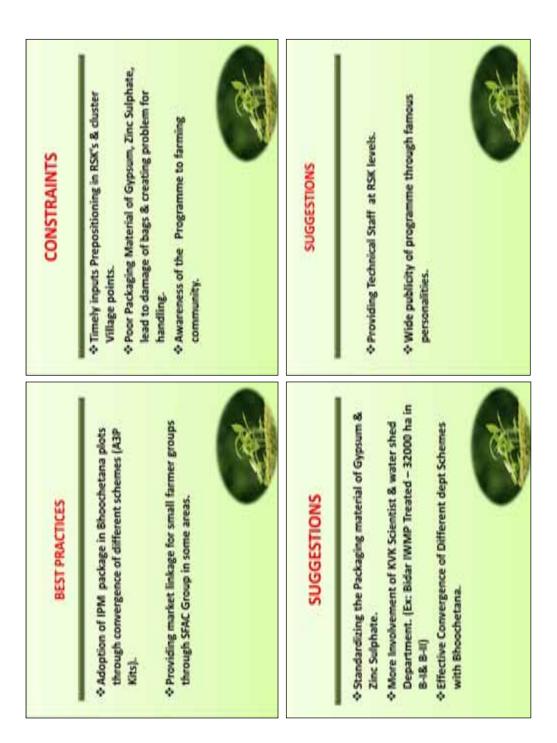


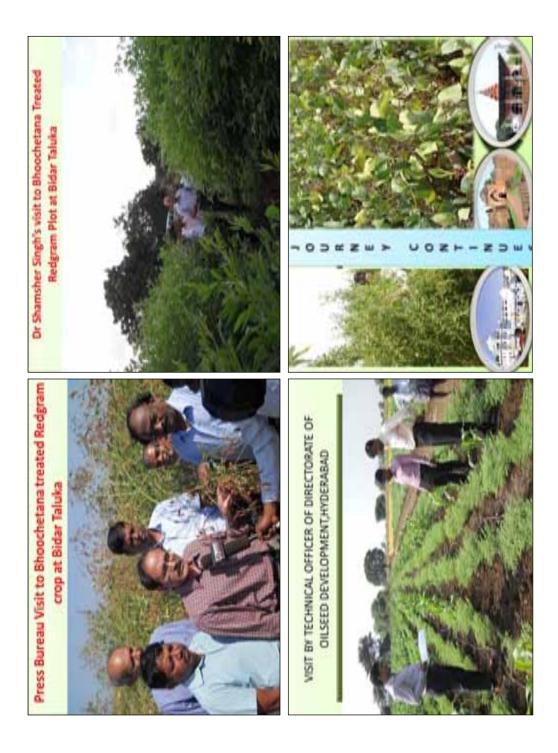
BEST PRACTICES Contd.

Publicity of Bhoochetana scheme at all gram panchayats through krishi Mahili Andolan, (Tableau)









BHOOCHETANA

BEST PRACTICES ADOPTED TO INCREASE PRODUCTIVITY

JOINT DIRECTOR OF AGRICULTURE BELLARY

- TRAINING TO FARMER FACILITATORS WELLIN ADVANCE
- VERNEARING ABOUT TECHNOLOGY -
- INPUT PREPOSITION -
- · ENSURE TIMEM INPUT AVAILABILITY
- · PARMER FIELD SCHOOLS

- TRAINING TO PARMER FACILITATORS WELLINADVANCE
 - CAMPAGNING ABOUT TECHNOLOGY
- INPUT PREPOSITIONNO
- · ENSURE TIMENT INPUT AVAILABILITY
 - FARMER DELD SCHOOLS

- District level training for farmer facilitators(TOT)
 - Taluk level trainings
- Hobii level and cluster level trainings

District level TOT is organized ance before the season and talkk level trainings about three times during the season. Hobi/cluster level trainings on need basis





- TRAINING TO FARMER FACILITATORS WELLIN ADVANCE
 - CAMPAGNING ABOUTSTECHNOLOGY
 - **NEWSTREEPOSITIONING**
- ENSURE TIMERVINEUE AVAILABILITY
 - FARMERATING SCHOOLS





- TRAINING TO FARMER FACILITATORS WELL IN ADVANCE
- CAMPAIGNING ABOUT TECHNOLOGY
- INPUT PREPOSITIONING
- INSURETIMENTINELL'AVAILABILITY
 - FARMER FIELD SCHOOLS

- Timely planning for requirement of inputs
- Prepositioning of inputs at strategic locations
- Convergence with ongoing schemes for distribution
- Effective and dynamic contingent plan and continues input requirement re-assessment

146



- · TRAINING TO FARMER FACTLITATORS WELL IN ADVANCE
- CAMPAIGNING ABOUT TECHNOLOGY
- INPUT PREPOSITIONING
- ENSURETIMENT INFUT AVAILABILITY
- · PARMINERIA SCHOOLS

- Crop management decision by agro-ecosystem analysis (AESA)
- Shift in crops as per contingent plan to suit rainfall, pattern. (lowar to Bajra & maize)
- Seed treatment campaign.
- Maintaining optimum plant population
- Gap for every 2 minsin paddy.
- Adoption of INM and IPM technique
- Intercropping and mixed cropping.
- Conduct short studies (eg. Compensation studies)
 - Experiments (Varietal trials in cotton & paddy)

- Farmers are facilitators (trainers)
- Supplement/compliment in formation of CIG/FIG
- Empowerment of farmers in better decision making



t	r.	5
F	1	l
Ē	2	ł
2	5	ł
Ģ	¢	ł
ŀ	1	ŝ
ļ	ļ	l
ĉ		5
-	-	

- Timely input supply.
- Storage and handling of bulk inputs and its
 - distribution
- Financial risks
- Farmer facilitator conducting 2 FFS.

CROP CUTTING EXPERIMENT RESULTS OF KHARIF 2012

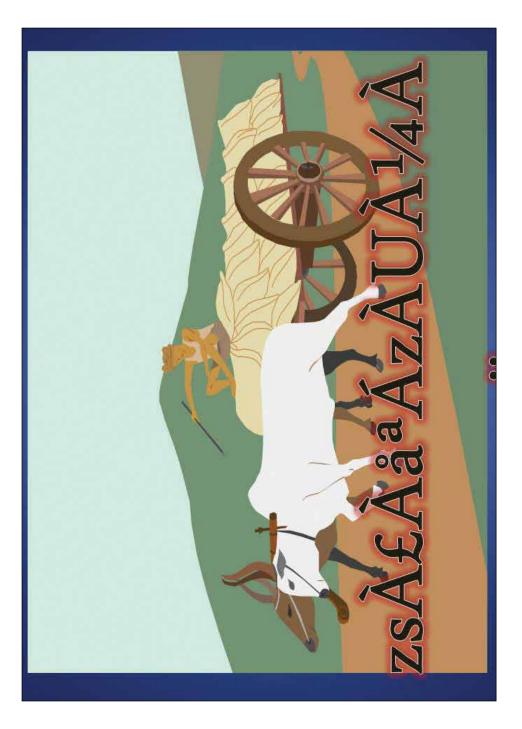
		A CONTRACTOR OF	d the set of	which there is	
dou	in the second	5 a 5 mm	Acre	tia	in tiels
	Check	16.46	26.34	6584	
-	Treated	15.91	3090	7724	
	Check	2.80	462	1156	
ALC: N	Trapted	3.5.2	563	14042	ŧ
	Check .	5.81	1085	2725	;
	Treated.	8.28	1325	3313	į
100 million (100 million)	Check -	2.18	34B	874	
	Treated	2.62	419	1047	
	check :	2.09	167	419	-
	Treated	2.49	199	258	
	Check:	1.02	163	408	1
	Treated	1,48	236	105	
	Check:	7,095	1135	2838	Y
	Treated	9.645	2543	385.6	1



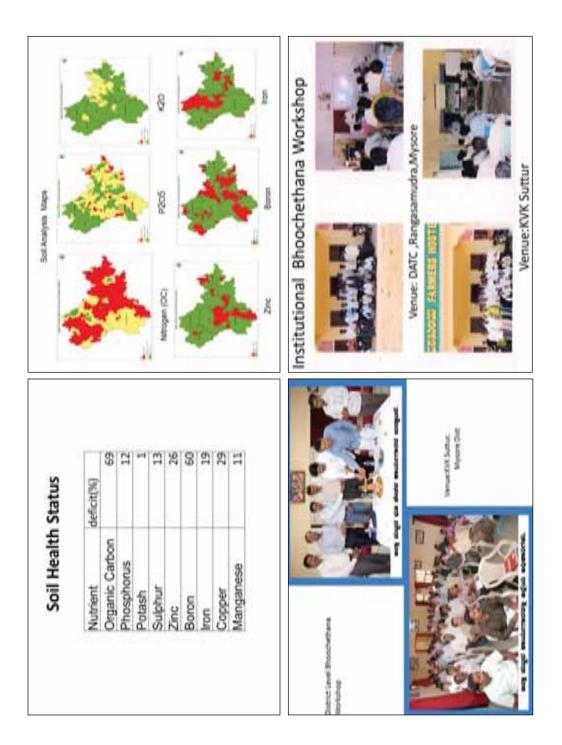




	14	193			142			100	222	1221	102			4						-		
	No.	A000 (7400	EX.			100		1	10		100				000			000	0.00	2000	2002	
	ADLO SODO SODO												5		ENDERS 200 ENDER	100			10 4 2013 202 12 2 2003	POSCES DOD 2002455	252013-000 3002013	
	- Carlo	國						開	10		R		cleaning		00	100000		00	00 01	8	00 8	
100	BUD	1						朣	鋼	1.00	B	Į.			0208			0000	NO-AGY	-	0.5.00	
単語			184	12.5			TABLE .	間	4	GI	目	10		ö			+	v.		220		e
THE R	18	100	1800	8	18	į.	TATION NOT NO	ß	掲	ţ.	#	1		Citer in						-		The manual account memory but
	2 2		1002	10	6	湖	đ,	8	f6	13	R	cheese entrance desards	-10	5					22	1		and a
1	THEY NEED REAL AGE	101		2	U	i.		驟	ţi!	æ	Ħ	3	2007	commercial discretions from the	addea			1	dia seconso podes	dur deced and due transat	des	0.090
				-	-			114	Я					in the		4		dice possibilities pip	Pot	R R	ಡಿದು ದುಭರ್ ತರರಣ	11 11
	TAITES	120	お田田の日	ALL FIRTH M	and the party			たちにの日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日の日	SS B Male in	a think						the state		2	0.01	Į.	200	日代
	-		Į	191	l	2		ļ.	- SA	Ĩ	2			8		ł		₽.	泉	Ş.	ŀ	P
			10		88	100	-	100	10	10	8	-					1-1					
	BIA	TIDITAL	10001	1 1200		C 12000	0006	意思	1 1900	15000	0 274000	Ì	i		62	70	42	104	140	1 0	80	
	E BUDIA	RUGUPPTION.	10011 10012	1 Dill	10055	- 12000	500 9000	5 5000	500 1800	500 15000	40000 274000				62	70	42	104	140	8	80	
	START DIVISIO	NORSPICEPTOTAL		2002 1 2005	11000 0 55000	100101	1845	1 Costs	1000			ST361A	M. Mon		25 62	50 70	28 42	51 104	89 140	60 48	50 80	
	NULLIN STATE TO DAY	LIG SHORERUGURITONL	2000	- 1 <u>1</u>	11000	*[*	招	128 0	間切	202	1000	AUF 2013-14	and a state		25	50	28	51	89	60	20	000
	ETARA DUELNA DAARET EDID-IA	ET KLOLG SHORSPICEPPTONL	0 1000 2000	600 SUO 0	1200 1100 0	自己	泉 臣 島	480 100 0	EXE XXX SEE	200 000 EE	70001 24500	1 KHA0F 2013-14							-			
	BOCCELTACK DUEDS REALEY 2015-14	LINGST NULLS SHOLPSRUGHT TOTAL	1100 1 100 2000	1510 6500 5000 0	300 1200 1100 0	自動し	日 四 日 日 日	80 480 130 a	ZDD ZDD XDD XDD SDD	100 75 100 800	MEN MAN MAN	CRIMG KHARF 2013-14	Determine version		25	50	28	51	89	60	20	
	NOR NOTICE TARK THEN SAME TO DIA	HONGER HOSTER (LADLO SHIDLESPACE) POTAL	0 1000 2000	600 SUO 0	1200 1100 0	自己	泉 臣 島	480 100 0	EXE XXX SEE	200 000 EE	70001 24500	ANA DURING KHANDE 2013-14	and a state		5 31 25	4 35 50	4 21 28	3 52 51	4 70 89	3 24 60	4 40 50	030 020 20
and discourses for the second s	SETS UNDER BROCKETARA DURING RAARY BUIDIA	THUR HONOR HONOR OTON LANON THE HONOR	1100 1 100 2000	1510 6500 5000 0	300 1200 1100 0	自動目	日 四 日 日 日	80 480 130 a	ZDD ZDD XDD XDD SDD	100 75 100 800	MEN MAN MAN	HETANA DURING KHAKIF 2013-14	Determine version		5 31 25	4 35 50	4 21 28	3 52 51	4 70 89	3 24 60	4 40 50	030 026 26
	SC TARGETS UNDER BEDOCHETARA DURING REAKET BUTSTA	LINTER-MULTINGEL NOVE SHORE SHORE SHORE SHORE	1000 4000 11000 0 1000 2000	0000 1200 0000 0000 0	22000 3000 12000 11000 0	3000 900 500 1500 0	2000 300 2000 TSI 510	400 600 4060 120 0	1000 7000 2000 2000 2000 S00	3000 1300 750 1000 5000	10051 10001 10002 10525 10051	BROCHETANA DERING KHAGE 2013-14	No. DATE NOT		31200 5 31 25	35000 4 35 50	20800 4 21 28	51	89	24 60	40000 4 40 50	
	ADMISE THREETS UNDER MONCHETAGA DUEUR SEMAN 2013-14	Corp BELLATHERALL HOUSE HOUSE MOLE SHOURS ALCORDING	4000 11000 0 1000 2000	5500 5500 1500 6500 5000 0	11000 22000 3000 1200 11000 0	4000 3000 920 7500 1500 0	121 121 121 121 121 121	500 400 50 4950 120 0	7000 2000 2000 2000 2000	E 2000 1300 750 1000 2000	SEE DEE DEE DEE DEE	BEDOCHETANA DURING KHAREF 2013-14	No. DATE NOT		5 31 25	4 35 50	4 21 28	3 52 51	4 70 89	3 24 60	4 40 50	274000 37 373 353 545







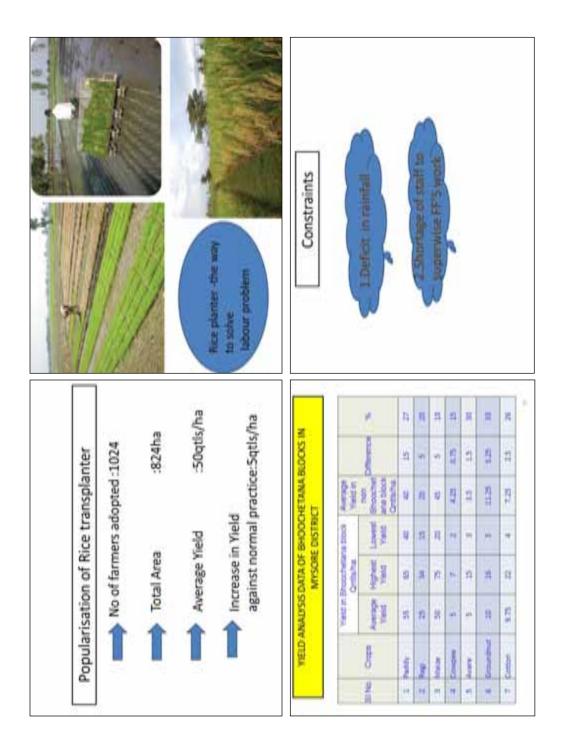


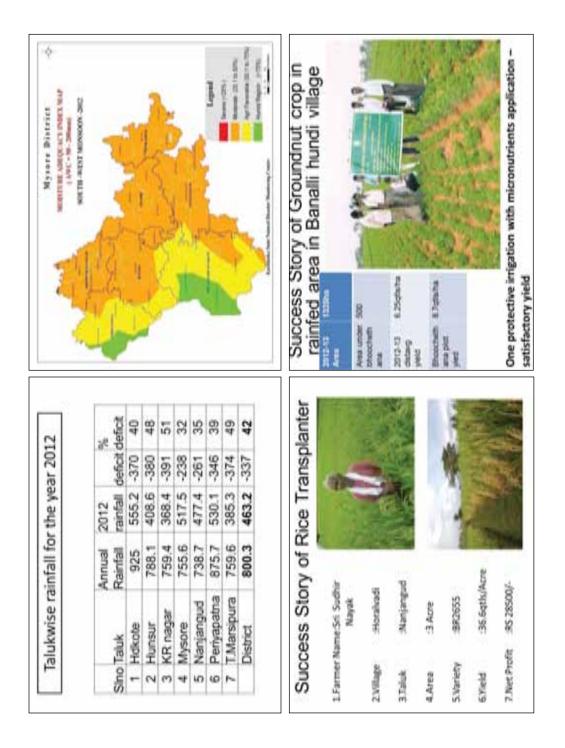


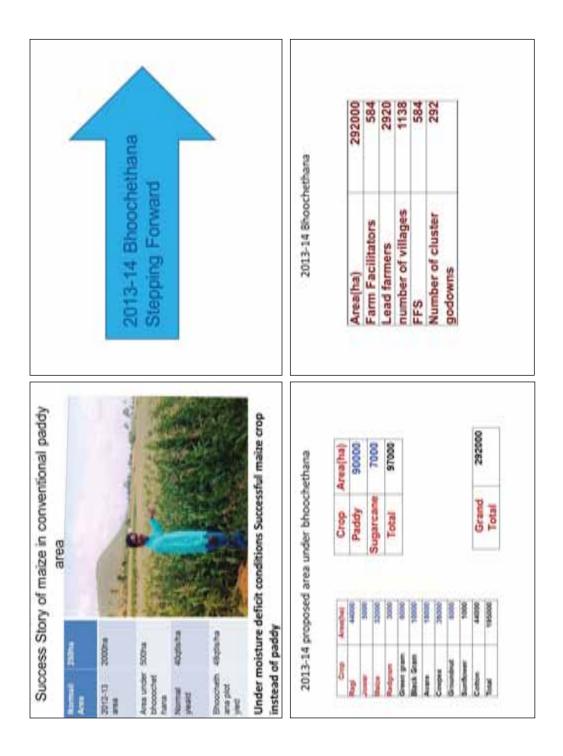
Le my Ta	STOCKING OF INPUT S			· WK	BEST PRACTICES	1.Seed Treatment campaign	2. rarmers rieid school 3. Introduction of Maize in irrigated	paddy Area 4.Introduction of Maize in tribal	area 5.Popularisation of rice planter
PUTS	hote h	20	315	115		1.Seed T	3.Introd	paddy Area 4.Introduction	5.Popula
STOCKING OF INPUTS	indented	12150	350	150				CONTRACTOR CONTRACTOR	COERCIS UNCOR
STOCKING OF INP	inputs	Gypsum	Zinc Sulphate	Borax	4		No.	50	12
T Much	oug	-	2	e		I LIBR	- And		











Input Requirement	nent	Activities	Period
Inputs Qua	Quantity	Distict & Taluk level	Mar-2013 Dist Level
Gypsum(100 kg/ha)	29200	worksnop	workshop April 2013 Latuk level workshop
Zinc Sulphate (5	1460	Selection of villages	April 2013 Taluk level workshop
kg/ha) Borax (2 kg/ha)	584	Selection of Farm facilitators	April 2013 Ist fortnight
		Farm facilitators Traininig May-13	May-13
Bio fertilizen(0.5 kg/ha)	146	Regn of farmers and Bench Mark survey	April 2013 2nd fortnight
	1	Hobli level Training	April 2013 and May 2013
		Cluster Million Trainine	And 2013 to Aumst 2013



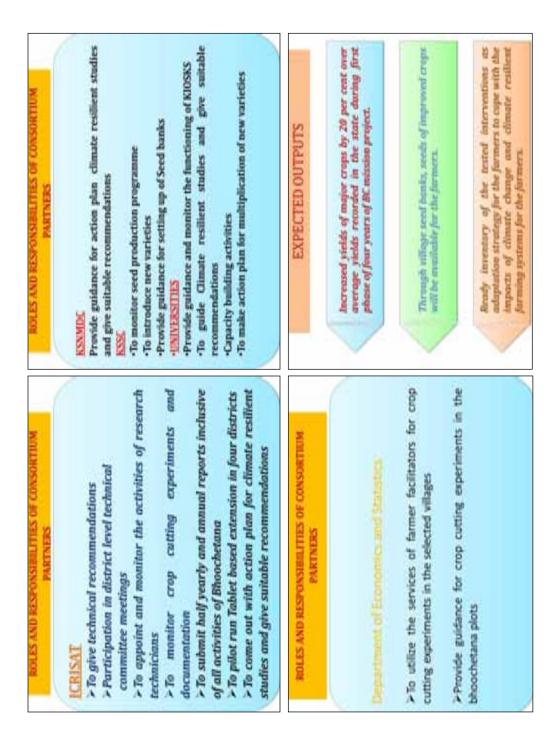
Conte	To assess the impact of climate change in different agro-eco regions of the State in terms of anticipated shifts in the crop growing periods, water availability, major crop yields, and evaluate adaptation strategies for developing climate resilient farming systems.	To document the process of consortium functioning, learning, and impact of BCMP in terms of increased crop yields, institutional development and capacity building of different stakeholders in the State.	1 2013	TOTAL Providen	50000 147500	0 54000	8 20000	100000 - 411000	0 274000	20002112 00002	000181 0005
	To assess the impact of climate change different agro-eco regions of the State in tern of anticipated shifts in the crop growi periods, water availability, major crop yield and evaluate adaptation strategies f developing climate resilient farming systems.	process of and impact crop yields, acity buildit	ACTION PLAN FOR 2013	ER 112	0	•		coos	T0000		0
	s the impa agro-eco rej pated shift water avail- duate ada g climate re	To document the pro functioning, learning, an terms of increased crop development and capacit stakeholders in the State.	ICTION F	ALONTO ALEA TANK (and tank)	00515	54000	200012	325600	294808	292808	256800
	To assess different of antici periods, and eva developin	To docu functionii terms of developm stakehold	4	DISTRICT	Bagallor.	Bangalore	Ecopoler atom	Selgans	Sellary .	atte	- Indega
Objectives	To strengthen the montherate contactum for increasing the crop (irrigated and rain-fed) yields by 20 per creat over the first phase of Bhoodhetana in five years in 30 districts of Karnataka through science-led development and new innovation systems. To strengthen the institutional mechanisms such as seed	villages, village seed banks, participatory research for development (PR40), inputs supply, agricultural machinery hiring centers, farm extension through farmer facilitators and communication systems for all cargories of farmers in the State for the Department of Agriculture through capacity development, convergence, collective action, and partmerships.	Contra		KHARIF-2013-14:	PROPOSED	DISTRICT-WISE	ARFA TARGETS			

10104	490000	DODECZ	2384000	32500	27000	195000	147000	292000			,				1			
	8009	2000		181			20002	10001				ME	MOLEN		FOR			
]1	۰	35000	25000	•	0	00051	55000	0006				PROGRAMME	TNU		LINES	2013-14		
District Runded Area	454000	193006	251000	12590	ILL000	160000	12000	195808				PROC	IMPLEMENTATION		GUIDELINESFOR	20		
District	Collecto	Hasen	Ranni	Kedips	at a	Interest	Mandra	Mysere					-		<u> </u>		1	
TOTAL	006211	125540	137500	105300	25000		booksu?	153000	18000	Tranc	251000	64000	117000	422000	15300	35000	178500	5800000
TMIDI Internet	4000 132390	0 125500	0 137500	0 205300	0 25000		1000 Table	0 153000	0 180000	International Total	8 251000	00075 0	2000 137000	422000	0 75500	0005E 0	II 178500	200000 5800000
			0000 0 117500	1 0 185000	a 0 25000			0 152000	9 0 18000	10-10-10-10-10-10-10-10-10-10-10-10-10-1		00015 0 0		15860 422000	0 0 15500	0 00 0 12000	15800 II 178500	600000 200000 5800000
	4000			205000 8 0 205000	25300 8 0 25000		0001	153800 0 0 153800	130000 0 0 130000		-	00015 0 0 010076	2000		15200 0 0 15500	35000 0 0 15000	-	500000 60000 200000 5800000

	Propased	200 per working day	Two lead farmers per farmer badilation @ Ra. 100 per day for 15 days. Engaging one solence gradiation per baddi @95a gradiation per baddi @95a	predeminant datafores predeminant datafores inter methic for tharif-Rahi orray sessen districts and Padly A segmenter		a de la de l	
GUIDELINES	Printing	Rs 158 per working Rs. 200 per working day day	For lead farmers per Two lead farmers per farmer facilitator for farmer facilitator © Ra L5 days @Ra 95 per 100 per day for 15 days. day day fagaging one science gradiant per holdi @Ra gradiant per holdi @Ra	111111	GUIDELINES	Proposed	
Ŭ		Recention to former facilitation	Load farmer			Geoporatest	NEW CONCEPTS
	48	+	64		-	d 5	
ES		Madamana SSLC	180 days for Jaharff season prodominant districts, 270 days for Jaharfi-Rahi errup season districts and segurcase	Stotha for all dry land, public and segments craps. 250 ha is Mahad and Contributes	ES Proposed		Additional trainings
GUIDELINES	-	Educational qualification not specified	126-180 days per scassa	500 ha in dry land arros, 250 ha in Maked and Countal arrs and publy A sugarcane crops	GUIDELINES		Institutional training
	ł	Selection of Iarmore facilitations	Duration of Farmer facilitation	Area per Farmer facilitaters	Citingenent	Trainings	44
		-	N		1		

		GUIDELINES	3			CHIDELINES
	Companient	Existing	Trupted:			101DELINES
0	Trainings			a a	Manual	Proposed
		 Institutional training Olearion local(Tree workshope) District local(Tree workshope) Table local device training(Tree training) Per scaned 	Additional training Two days training to all extension officers on FFS and cheate change and cheate change and the change of the change	 NEW CON Districtle Technical Committee 	NEW CONCEPTS Distance level Technical Committee	[bit. Chainese Manufacre DWD0, DD4(DATh); MB4(S08); SQ Manufacre DWD0, DD4(DATH); S
	h Field days		Priority to be given for New undersy and innovative components			recommend insective includings for
14	Purchase of T-shirts, publicity component	 Purchase of T-thirts, Bags and caps for Farmer facilitators under publicity component. 	mer facilitators under	h Demo	h Demonstrations	4 5 ha Bloochetana technology demonstration per hohli @ Re2000/ha, under the supervision
80	1	Writings Wall writings in villages	In addition to wall writings, captions to be writing on tractors and other bloch machinerics.			of RNK Sciencise - Field days to be conducted in these demonstration plots.

GUI	GUIDELINES	9	GUIDELINES	LINES		
the Companies	Properted	THE COMPONENT		IIISQAUIA)	H	
MEMI CONCERTS		NEW CONCEPTS				
C Encourse Tond	Two data researce star to other diseases for	E Charlensfleet states	NUMBER OF STREET	KURAT to findine action plat in con- with KINDOM: and State State Statestilies	1	
siste	a burth of 50 competiting of extension officers, thermar backgrains and larmons @ Ba	F ATTAMATING	*Testarte	 To start as plac hosts in how district. PERIOD to monther this plact extension. 	and the second s	1
	25000 per vist VXX in Endor district was well production plat in consistent with the	C being sy official		Che Hangdone, Dharrook, Kather and Shine Konton ander the goldsom of Disherrobles - Ordenrifierthe multiter the functioning of Unders.		In
bank concept runs	- Variental replacement plan - Active plan for setting up of seed hank	R. Income (manual	111	¹ See that performing function from the second		11
GUI	GUIDELINES	ESTIMATED BUDGET REQUIREMENT	BUDGET	rREQU	IREME	NT
9. Component	Proposed			1	Î	1
		COMPONENT	MES	BR	RIGVY	TOTAL
NEW CONCEPTS		Indiana.		1	1	1
I Creatise Come	Connetitions for farmers	Bring of polyness	1		8	
components		Well writings	800	-	- 246	1.146
		Farmers Field School	8	-	10	100
Introduction of other	Introduction of other innovative components	a deling to desire products	1	•		14
		Training and secretary	-	•	-	-
Others to continue as	10 Others to continue as per 2012-13 guidelines	Ingel release.	8	1001	Ŗ	E
		SCHOOL Consultancy	419			-
		Innerties Compress.	R		R	-
		TOTA	TOTAL 6000 6000	6000	2200	5200 17200









Input Management – Challenges Study of Soil Health analysis since 2008 to 2012 Diagnosing of macro & micro nutrient status – gave a big headway. Matrient status mapping and fertility status for all the 30 districts. Taluk wise, crop wise nutrient recommendations and fertilizer dosages for major crops were finalized zone wise. INM & NRM's - most important Malinity problem; Gypsum application, Drainage, Green manure & Salt tolerant crops	Soil Health analysis and Input Management- location specific science led initiative 46.95 lakts soil samples analysed (2008-09 to 2012-13) *Soils are poor in N, P and deficient in Boron, Zinc and Sulphur. *Use of Micronutrients-encouraging results. Use of Micronutrients-encouraging results. *Use quantities of soil amendments. Application of Bio fertiliters *Incorporation of huge quantities of Organic manures. Vermi compost, City compost, Green manures etc. Emphosizing INM
CGIAR; Consortium initiative & Mission mode "Bhoochethana-II" "INPUT MANAGEMENT- STRATEGIES & CHALLENGES & CHALLENGES & CHALLENGES & CHALLENGES & CHALLENGES & CHALLENGES & CHALLENGES & CHALLENGES & CHALLENGES	Distribution of Micrometrients in Elecochethana Programme Natricels (Ng, Ha) Natricels (Ng, Ha) Natrice

AGencem application from A309 MT to	stine from A2	DO MIT +n		an a commit or and a source and		
1,12,270mr. supercention months and the months in the	ment for the first 20	The state of the	Microsoftlests	% Deficiency	% Adequate	
07600 To 100 To 10 80 To 10 To 100 To	116.627um	Contraction and Address of A	The	67.34	32.66	
N IN 7/C LOCIT	INTERNET O	110000000-CT107-LIN	ų	32.95	67.05	
OBORAK 53MT to 4092MT (Kharif 2013 -	4092MT (Kh	arrif 2013 -	Magnese	878	91.71	
14,500MT)			Capper	6.10	93.90	
Soil Health Cam	is findividual	Soil Health Cards (individual). Wall painting	I	28.22	41.78	
on soil fertility status.	status.		Relpha	21.00	48.00	
 Internalization of Soil Health Manage -ment has to be a continuous process. 	n of Soil He be a continu	alth Manage Jous process.		1111111		
Soil fertility status-2008-12	status-20	08-12	Soil Fertilit	Soil Fertility Status Of Tumkur	H	1
of a	% Acotic [%Neutral] %Alkaline	d %Alimine		N Nerrel N Cristel Shipe	- interest	
p.H 22.74	71.37	5.89	10.80	99.16 0.57	10	
S Mor	Normal Screen	s Criscal Schiputers	Ni e	A MARINE INTERNATIONAL PARTICULAR DE LA COMPACTICA DE LA		ins.
EC 94.76	76 4.45	91.0			1	10
atta	when it Modern with	- Children of Chil	Ringer	91.15 T.82 17.76 S5.27	1.00	
Nitregra 40.41	32.55	22.04	Potest	8.21 44.20	11.42	
Phosphorus 28,11	1813	28.04	Application	Application of FYM and bo	Manufactor	
Potash 7.27	33.54	59.18	organic carbon st microbial arrowh	organic carbon status and soil microbial armeth	a Zar	30.23
				Thursday.	tanang	ALL NO.

Image: Description of the state of the s	And Periody States of Signed SEED DISTRIBUTION Seed distribution during 2012-13 (section of the section of the	Application of model with the second symposition of model with the second symposition of the second symposition symposition of the second symposition symposition of the second symposition sympositication symposymposity sympositication sympositication sympositication symposit	Nonper 34.07 34.13 27.73 Nonpheres 14.74 29.44 35.67 Nonpheres 14.74 29.44 35.67 Nonpheres 14.74 29.44 35.67 Nonpheres 14.74 29.44 35.64 Nonpheres 1.47 29.44 35.64 Nonpheres 1.47 29.44 35.64 Nonpheres 1.47 35.44 35.64 Nonpheres 1.47 35.44 35.64	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Soll Fertility Status Of Chikmagalur	All and a second	DISTRIBUTION DISTRIBUTION	SEEI stribution anertimus agret Advince Morris a strat atrus at	Seed of Constant
---	---	---	--	---	--------------------------------------	--	---------------------------	---	---------------------

COMPANY AND

144	
1.1	
1.00	
10	
- 52	
- 53	
2.2	
- 11	
100	
100	
- 5	
- 10	
- 6	
- a	
/ X	
- X	
. 10	
C 28	
1.152	
- 25	
1.25	
1.68	
-	
- 70	
19	
1.2	
10	
and a	
1.11	

25eeds are distributed under sublicky under Caetral Gost.'s Raditrijs trick virkaus Vojone/REVV, and State Gost.'s Seed Distribution and other Investment actions. >During 2022-US an amount of Ru. 30.00 cross under RNVY and Ru. 200.00 cross under Soud Distribution and other Investment scheme is exmanded for this purpose.

		٠	
	1		
		5	
		2	
		r	

3	113	0/THEIL	12.78
El (Lamont) (SPR)	1.13	340125	5
Enert 2002	-11	1712M	11.11
Particulars	Seed distribution [Lakh. gth]	Amount officed	to diament

ž	eed Replacement Rates achieved during last two years and target for 2013-14 (in %)	nent Rates and target	t for 20	chieved durin or 2013-14 (in	(k u)	t two
d Mu	-	2011-12	11	2013	2012-13	2013-14
	t	Target	larget Ach	Target	Ach Not	Target
-	1 Paddy	34.0	41.0	36.0		37.0
2	Ragi	31.0	32.0	31.0	34.0	33.0
3	Jowar-Var.	26.0	30.0	30.05	29.0	33.0
	Bajra Var	31.0	42.0			
S	Wheat	23.0	23.0	30.0		33.0
9	Redgram	26.0	13.0			
1	Greengram	23.0	21.0		29.0	

			1			
		2011-112	Ę	E1-2002	9	10-5302
8	85	No.	ii)	angel.	-	Tapa
	Compea	23.0	212	30.0	25.0	33.0
2	Bengalgram	26.0	31.0	30.05	33.0	33.0
11	Groundrut	15.0	250	25.0	250	33.0
12	Sunflower-Var	26.0	30.0	30.0	250	33.0
13	Saffower	22.0	28.0	24.0	200	33.0
10	Soybean	87.0	89.0	88.0	906	89.0
15	Castor	36.0	16.0	20.0	20.02	33.0
22	Cotton-Vac	17.0	38.0	25.0	39.0	33.0
11	17 All Hybrids	100.0	100.0	100.0	100.0	100.0

1	-	-	1	and a local division of the local division o	(ddot)	and and	1	1	State of the local division of the local div
1	1		tit.	ł	3	9	1	!	to the
-	PACOT	Supersit.	pump.	Theorem of	THINK		THE .	201044	4111
-	-	Depet	Dects	H	torda	8	I	and a	100
	and a	Parties .	1200	ų	1000		time.	STREET.	E.
	-	00531	0084		Ĩ	1	00084	1	1200
	BALKS.	12626	1000		8		11000	Links	4040
+	Miner Million	1001	NR.		Ħ		The state	DORT	
2	and the second	4Thema	THE OWNER	-	I		-	1000	1100
-	About	COLUMN .	Bane	1	Ĩ		1000	11111	4078
	SACTION AND INC.			Ņ	Ņ	1.1	and a	APPENDE N	-treat
	8	[Dec]		I	1981		No.	1000	-1804
=	COMPLE	Diff.	1000	IJ	H		Page 1	長	
¥	PELOBERS	M	1			1	101	803	ų
p	HORESTRAND	1220	7	"			1120	4129	
ł.	and the second second	MCM1	and.	-	1211	1	1111	1	Contraction of the local division of the loc

Reduce seed rate usage by following	methods:		Paddy: Encourage drill sowing.		Adoption of SRI method Extensively.		Ragi:Encourage drill sowing.		Follow Iransplantation method.		Summer leave of One and disasse free rane	ההאפורטונהי השמלה הו הווה בלבת חושכששה וובה לפווהי	Sowing in pair rows with wider spacing.		Groundnut: Usage of good quality seeds.	Follow Dibbling method.		Messures taken to mercome Seed chortage:		"Seed producers meetings are conducted to discuss	shortage of seeds and informed them to meet shortage of	seeds.	"Seed producers are advised to give priority for recently	released varieties (< 10 year old varieties).		"Seed producing agencies to concentrate on increasing area	under Certified seed production.		"Seed producers should supply treated seeds to farmers	with treated chemicals and biolertilizers.
1	² DOP Named total two of any pages 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	12 CADADONT TAXON TOTA THEM THE ACCURATE THE ACCURATE TO	N NUMPLONES 9424 8 1 704 421 14224 4114 1945	11 CALTON 3425 8 8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NELAWARK 1986 1 18 1 2011	C New 200 0 0 0 100 100 0		TH BOTBEAN THICK DOWN DAME TOOLS SAME AND ADDRESS TO ADDRESS ADDRESS TO ADDRESS ADDRES	Tas dimension and table table table table table and table	AND A DATE OF A DATE OF A DATE	Analytics and a first the list of the state		NUTE 1. Each requirement, up per the based Septement Same in 2012	1 Seed suppliers will be information meet the shortfull.					Effective implementation of Seed treatment	campaions.		-Draw service Seed samples from farmer			It is done.	Seeds produced by purchase through	department, publicity should be given to use	such seeds for forth coming 3 seasons.		

		2	Red.	1.884
Padey	- Desire		- Saul	1408-2
Paddy	BUT BUT		2	WINE-SOL
Paddy	and a		pag.	Act 6
Paddy	M-Triveni		3	GPU-42/54
Pretty	1ET-13901		- Bard	MC-363
Patery	Test I	m	30war	CSV-22
Patient	BRADISS-		litreat.	Vicentia
1	All-Andres		Jouar.	C51-23
- and	And And		lipsen.	44345-344
-	NAUGHE-1		Itear	051-83W
Paddy	MAS-26		lown	344
-	10.010.0100		Jonar.	Mutch.
1	15 Minute	*	Maide	Ex-434042
Poddy.	-		Man	in the second
Patty	14E		Marina	Ariter
Paddy	Teramatelu		Maine	NDM5-21
Patiente	161-13904		Addine	CLARCH .

10-1023	EPHONE .	LINGUE		WALLING .	CMSSBSA	CNS17A	RHABSC-1	1-CENHA	15-4905	10545	196-21			XCEV-B114	771002-8	19-85	and the second s
Sanforeer	Sectioner	Configure			Surfacer	Sufface	Sucharen	Sufference	Soyabean	Griter	C.Ree			Griter	Greet	G-Not	
2				l					#	#			t				
DWR-1006	2006-11156	LINCALS	MACS-5222	1362	H	1 SM0, 668	1988	\$16-2	T-65M	調査	101-80	\$57-58d	Corg-7	1005-0010	36-24	BCD-202	
Wheel	When	Wheel	Wheel	Compare	Compete	and a second	Redgram	Redgram	Rodgram	Rodgram	Rodgram	Redges	Redgram	Bengalgram	Sergalgram	Bengaigram	
64	-	-	-		-	-		-	-	-	-	-	-		-	25	

	1	•	i	
	1	1	t	
	1	Ľ	l	
	į	ň	1	
1	ł	ł	i	
	1	С	1	۱
1	1	ĉ		
2	1	2		
1	1			
1	ļ	Ļ		
1	1	c	1	
1	1	ñ	i	
			í	
	i	F		
	l	ł	1	
	j	2	2	
2	1	ē	i	
-	ļ			
1	ł	c	1	
	1	π		
1	1	È		
	ł	đ	ļ	
	1	đ	1	
	į	ř	1	
1	1		1	
	1	l	l	
	1	ł		
1	l	1	ĺ	
1	ĺ	1	l	

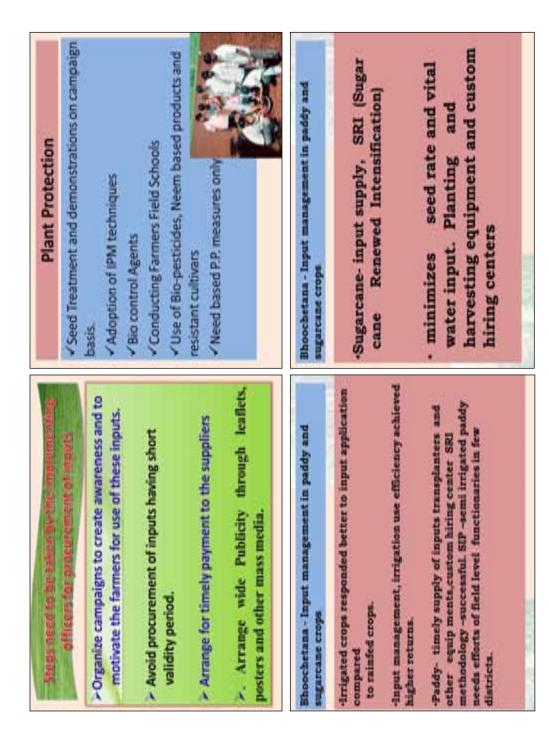
Developed for the second soft is being the area and the production, the solution transmission where is long transmissed in the state frame and the

This scheme is being implemented in coordination with the State Sood Producing Organizations like XOS, ROS, NOS & State Agriculture Universities.

- This cheme is implemented which involve the choice yillages.
- > Under Sendenjählendähl prijere fullswing compensats an facilitated to seed producing farmers.
 - L seutorette

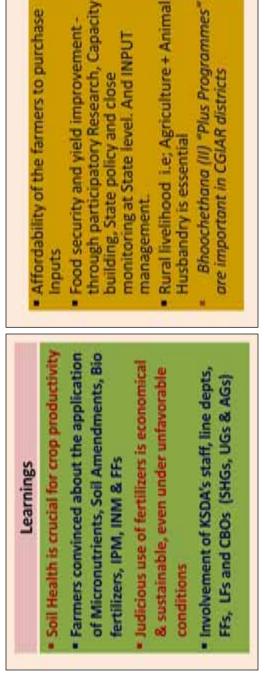
ertilizer Requirement Fantitier Grade	to.
	(ant) server)
DAP	5.00
MOP	2.90
NPK	7.50
UREA	8.00
SSP	0.25
TOTAL	23.65

Enhancement in key inputs consumption during Kharif Season from 2009 to 2012	Component 2009-10 2010-11 2011-12 2012-13 heads Total Chis Req. 50% of the Ren for schooly schooly	requirement 50% reg a	um 4309 35376 5524 112270 Gypsum 11,60,000 5,60,000 20,300 10,150	372 2733 8775 1422	24 53 339 2781 4/92 2/504 35,000 22,000 12,750 3,350	Input consumption((g/hs.) 80rax 25,000 14,500 6,264 3,132	m 19.15 29.50 37.90 14.65 acresses 30018 15009 3,317 1558	1653 2.271 3.46 1.883	0.236 0.324 1.10 0.56 Total 12,77,018 6.38,508 43641 21,820	Probable Funds available under different schemes Steps need to be taken by the implementing (Rs. in laths) officers for procurement of inputs	Name of the scheme setting available for setting inputs inputs	Enrichment of soil Fertility 7500.00 7000.00 > Link up the nutrient deficiency, consumption of	ISOPOM (officerds) 6290.00 1018.06 different plant nutrients	il - Rice 1372.92 60.50 Assign specific responsibilities to farmer facilitations	5624.41 313.705 X	APPP (Testative) 4220.00 500.00 > Codduct neriodical review researding working of farmer	RKVY (Bhae-chetana) 5290.00 S00.00 control of the state
hancemen ring Khari	mpoment 2	Input distri	Gypsum	2n604	Borax	Input a	Gypsum	2nS04	Borax	bable Funds	Name of th	Enrichment of	ISOPOM (ed	NFSM - Race	NFSM - Pulses	APPP (Test	RKVY (Bloss

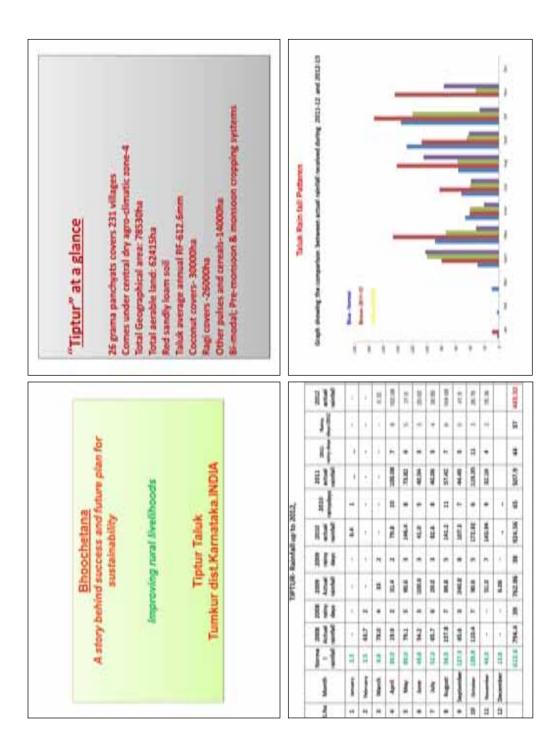


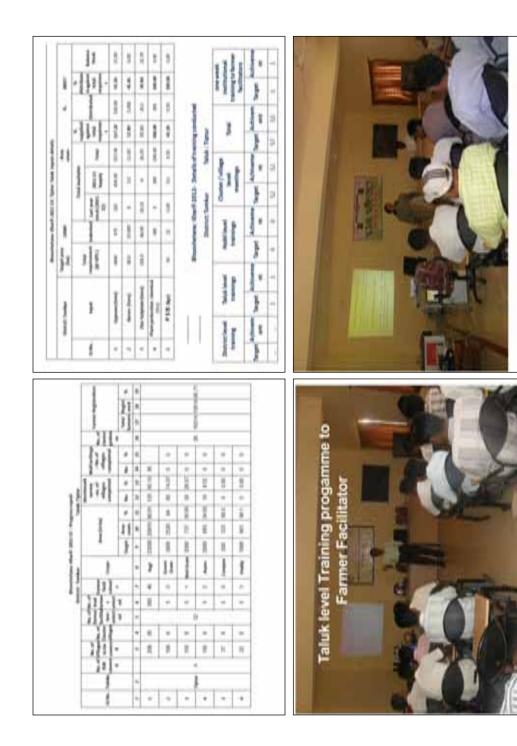
Quality Seed distribution Outling Seed distribution Printic Seed Production Plan & 2nd Stage C/S prodin at RSK level Seed prodin Plans & 2nd Stage C/S prodin at RSK level Seed prodint Plans & 2nd Stage C/S prodin at RSK level Product Seed distribution as per seed replacement norm Prove Hybrids. C/S, T/L and tarmer seed Prove Hybrids. C/S, T/L and tarmer seed	 Use of Inputs by SF/MF, SC/ST farmers very cuoial Use of Tropicultures, Seed-cum-fertilizer drill, MFO's, Rice Transplanters and other improved machinery INPUT MANAGEMENT- In post rainy season is also crucial for Rabi crops and irrigated crops
PEST SURVENLANCE AND ADVISORY UNIT	Input Management in Khairf – most
PEST SURVEILANCE and Advisory Units have been	challenging
constituted both at State and District levels.	Involvement of FFs, LFs and Field level
Prest Surveillance and Advisory Unit meetings are	functionaries of KSDA, WDD etc;
conducted pertaining to occurrence/incidence of pests	Cluster villages and godowns facilities
and diseases in different crops and their management	Transportation and handling problems
practices are being conducted on monthly basis with	Timely availability of Inputs and smooth
the active participation of Agriculture Department,	distribution at peak sowing season
Scientists from Agriculture Universities. Selected	Field application of inputs - supervision
District Joint Directors of Agriculture (JDAV), CIPMC	Demonstration on Lead farmers and innovative
officers, KVK extension staff and NGOs.	farmers fields

Ņ









Hobil Level Training programme to Farmers and Farmer Facilitator











15 guntas 18 guntas 5 guntas	a pist	pplication of Substitution Usual pactice of	1.1.25g with Deliches, Tar, 1.0.025g Fodder Jowar	Recommended		Ray under Boochstans	のいろにあったのであったのであった	のないであるという		の意思をするとなっていた。		大学であるという		and a more than the second
18 in	1	Apple	og an	Ż				24		Ser.			<u>P</u>	
			NE					years a		座				
	a S	5 0.5	Eine Borax	13 2.5	5 25			Expected yield at the state	1200	101-001009	器	100		20062
	s	30 S 0.5	P Gypsum Zinc Borax	200 13 2.5	188 25 2.5		- ACOM		1250 1250	152-052 005	1200 1360	1001	1000	0055
	s	50 30 5	P MOP Gypsum Zinc Borax	42 200 13	188 25		and an only of the local data	2						
		S 02 30 S	ea DAP MOP Gypsum Zinc Borax	54 42 200 13	109 42 188 25		and the second s	Farmers field yield	1280	8	1200	8	1000	0051
	s	50 30 5	Urea DAP MOP Gypsum Zinc Borax	42 200 13	188 25		The Party of the second s							





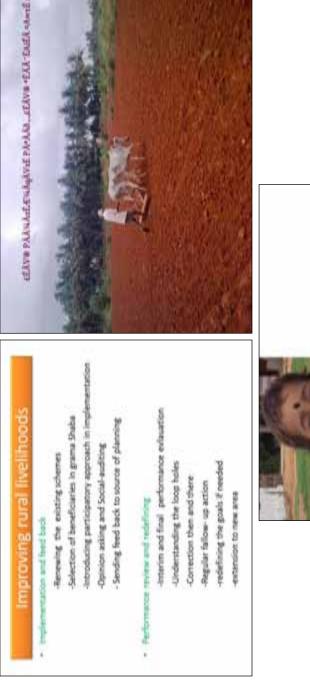


Technology intermentions	ICONTOORS INTEL ACTIVIDITY	Contract ploughing	 Enderstine of remembering them (Pressons) 	workings the Language second and an encounter of the second secon	O Uning advanced seed cum-fertilizer drill to maintain optimum plant		Copening the deed furrows for conserving rand?	Wased based plant protection measures	Integrated pert & disease management	4 Timely harvest and talk strongs	
4	PR	51500	1300	6000	20.00	2002	3080		8		ŝ
ment de	Anna Maria	- 0000	205	807	11	n	8		8		Mark Part
da requin	-	2005	12	8	11	53	191		8		3 godown identified for each GP for 2 facilitators preferably PACE's
die hpu	ł	2000	ą	ų,	4	и	120		8		12 14 0 15
Townst	ł	2000	8	800	-	n	8		8		9100
PL-CINE	ţs	8000	12	8	11	n	8		đ		ed for ea
- that	2	230000	8	1000	512	民	9511	R	1		(dent)
Broochstane Rhard 2013-14 Tiptur take inputs regularment details		and a	interest of	Inclusion	I fame (head)	In Decidence in	Part principal	Party and the second	7.751A (bpl)		1 godown

		1	1			1			1		1	1	1
	1	1	1	1	1	1	1	1	A	1	1	1	1
	Robertell											-	-
	and an		*	*	8		*	5	8				*
10	-		Π	+	R	3	+		7	*		1	4
-	-		Π	•	8	1		Ħ	ñ			=	2
	1		П	•		-			1			=	=
	-	5	1	1		1	-		*	*	9		2
	Munited Street												
-	1		"	*		*	*	٠	+	*	*		1
	-		*	•	1	*		8	*		R		2
-	1	=	*	*	ß	-	*	8	*	- 18			2
	-	8	*	•	1	1	*	1	*		A		5
	and the second	ų.	"	•		*	*	*	-			*	5
	-	1	*	1	1	1	*	1	*				2

	1	1	1	1	١.	1	1	1	1	1	2.		1
11	1.	я		-				*	*	-			
2	Surgare a	1	**		=	٠	-	R	*	-	*		-
2	1	*	*		8	٠	*		•	*	*		*
\$	-	n	**	-	8	•	*	Ŕ	*		Ħ		*
\$	-	4	**	-		4	*			-			-
p	-	1	-	1	4	•	7	*	*		4		-
	-	10		7				1	7		1		
#	1	1	**	1		*		*	*	-	-		*
	1											_	
8				7	8		•		-		8		-
4	-	8	*		R.	*	+	R	*	-#	*		*
н	anger.		**	-	8	-	*	R	-		10		۳.
д	-		-	-	=		+	u	-	-			*
4	1.			-	. #	*	•	R		*	R.		
4	-		*	-	8	-	*		•	14	9		-
я	-	8	**	-	*	*	+		•	-	9	1	+
	3	1	1.11	1	1	1	1	1	1	1	1	Ľ	1

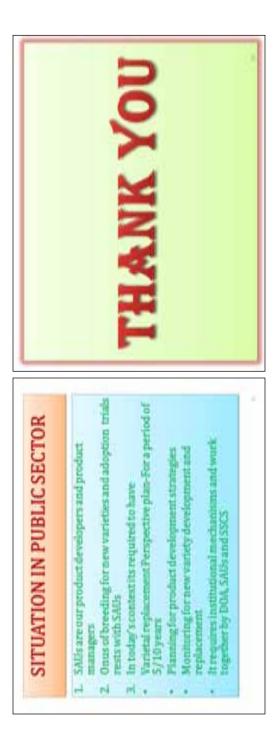


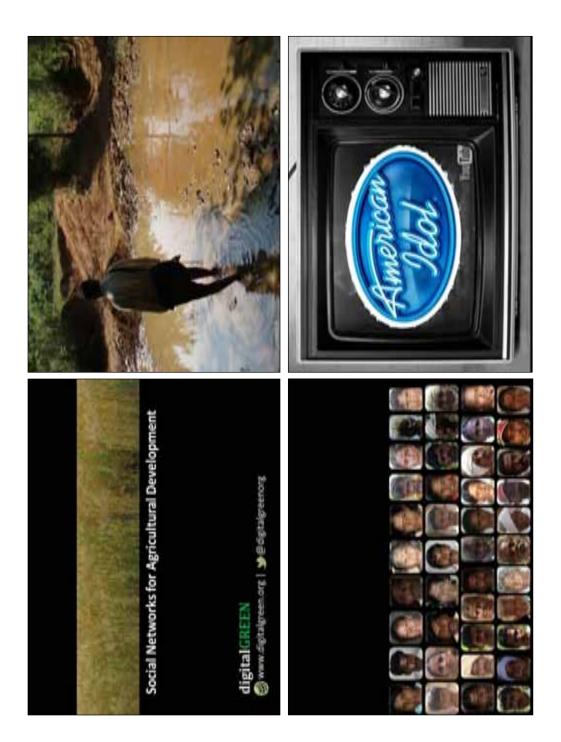






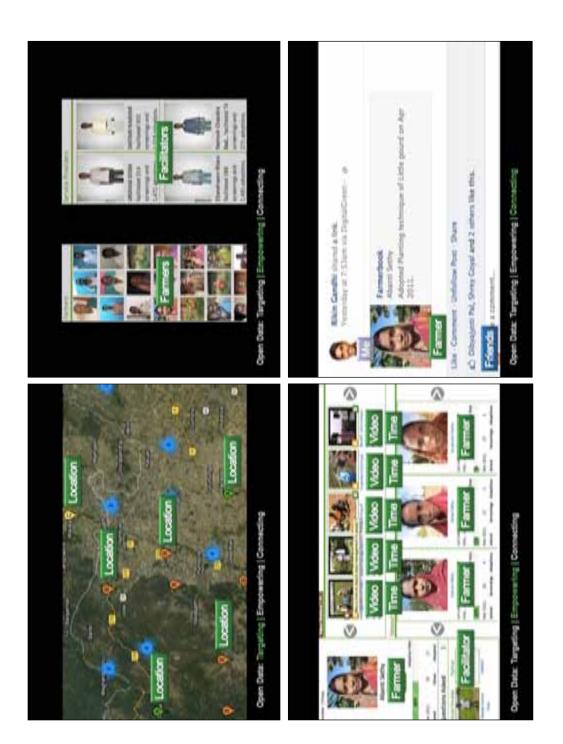


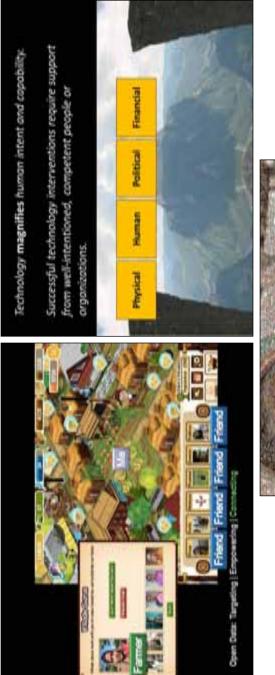














Bhoochetana Workshop

Group II Capacity Building: Innovative extension and awareness building

Capacity Building

- 1. Extension Workers including FFs
 - 2. Farmers

Extension Workers

- Precesson, midterm and post season training for Eos
 At DATC and KVKs
 - Effective use of video conference facility through
 - sharing of experiences
 - Success stories
- Innovative subventions
- Satellite based training programmes
 - -fwite in a season
- Mobile alorts where calls, test SMS

ETTIGES

- Pre-season campaigns with tableaux depicting Success stories
- Assess group based needs, facilitate formation of FIGs, CIGs
- Availing Information Dept. facilities for campaigns, slide shows in cinema halls
- Arranging participatory, on hand training at village level

Explore EDUSAT facility for location specific training
 Arrange Satellite based trainings[2-3] in each season)

- Arranging regular trainings at RSKs-experience sharing.
- Establishment of Electronic Display boards at GPS
- Arranging Farm schools by involving Krishi pandits, progressive farmers
 - Issue of Regular press releases with advisories and training schedules
- AIR/DD lessons series to be amanged
- Availing services of local TV channels with local resource persons
- Arranging regular Phone-in programmes.

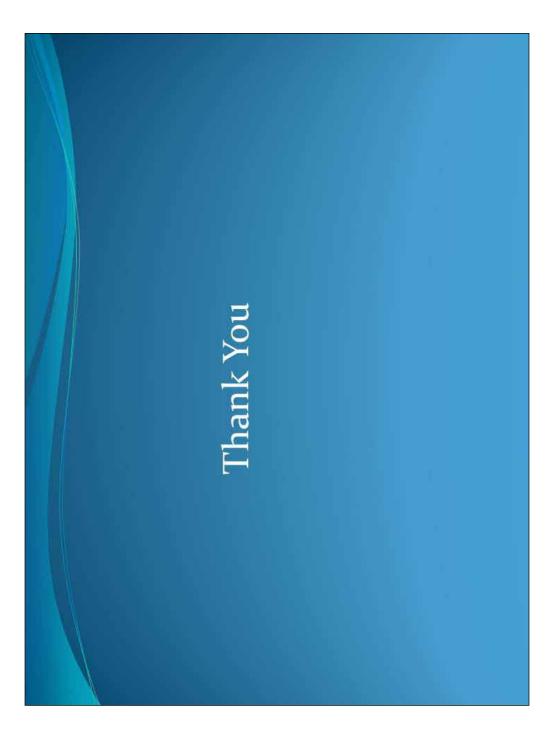
Arranging subjectwise trainings at DATUs, KVXs, NGOs

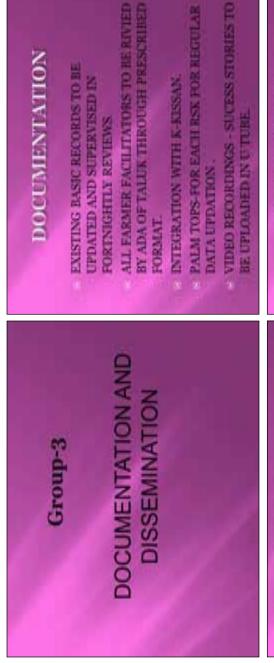
- Arranging night trainings, video shows, street plays
- Visit to Krishimelas, interaction with scientists.
 - Providing CDs on crops (Seed to Seed), farm
 - enterprises concerned with value addition

Wall Paintings

Highlight in bold letters on hos stops, use small letters on GP and school walk.
Adone whole frame work, use pavements too.
Media Alerts.
Interim documentation, broadcasts, telecasts.
These field visits.
Manys use e-mails backed by sms alerts.

-Extension literature.





- ONE FARMER FACILITATOR PER TALUKTO RE ASSIGNED
 - EXCLUSIVELY FOR DOCUMENTATION.
- ONE HANDY-CAM PER TALUKA SHOULD BE PROVIDE TO RECORD ACTUALS.
- INVOLVING LINE DEPT SCIENTISTS ON PERTICULAR DAY TO VILLAGES DURING SEASON TO ADDRESS FARMERS FIELD PROBLEMS

DISSEMINATION

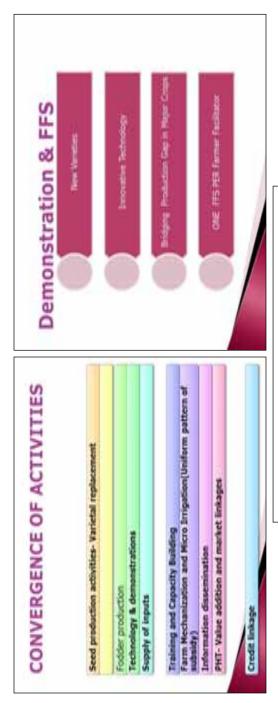
- TV ADVERTISEMENTS INVOLVING FACILITATOR ON HAND.
- EXCLUSIVE SLOT FOR KISSAN CALL CENTER.
- SCROLLING MSGS IN LOCAL TV SEASON WISE TECHNOLOGIES.
- SELECTED FARMR FACHLITATORS FOR BDIONTHLY.
 - PUBLICITY INCORDENATION WITH INFORMATION DEPARTMENT.
 - THROUGH COMBRUNTY RADIO.

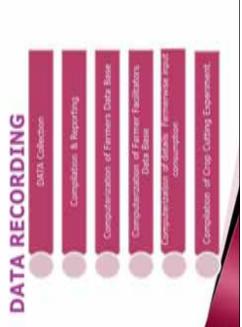


- FACILITAOR AND FFS LEADER.
- INFORMATION THROUGH LOCAL FOI ARTS.









Climate change: Mega concerns

- Increase in temp by 1°c increases the sea level by 1 foot due to dissolution of polar ice caps, GHGs(CO,, CFC, CH,, H,S)
- Increase in temperature increases the productivity of C4 plants: made, sugarcane
- In Kamataka, past 10 years rainfall trend signifies 6/10 years being drought affected •
- Neighboring districts have opposite trends ,

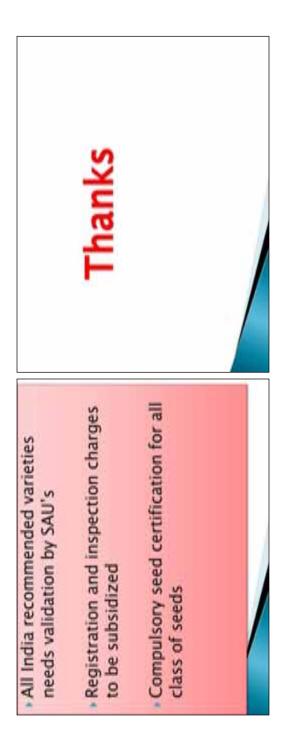


Some impacts of weather aberrations Appropriate cop writeries to suit the charge before homiding. Appropriate cop writeries to suit the charge before homiding of cotton Migher homiding. Fower choopping in figuoropal (in the poortian (index to make a strint) - In the mendiany and contingent troop planoneg / planoneg / planoneg research on increased of content in sugmerands Migher temperature: Enter tuberisation in potaton increased of content in sugmerands - In the mendiany and contingent troop planoneg / planoneg research on increased of content in sugmerands Storps winds: High exportanspiration demands - Internation stage increased suger content in sugmerands Storps winds: High exportanspiration increased of content in sugmerands - Commention stage increased suger content in planon stage Storps winds: High exportanspiration increased suger content in planon stage - Commention stage increased suger content. Storps winds: High exportanspiration increased suger content in planon stage - Commention stage increased suger content. Storps winds: High exportanspiration increased suger content. - Commention stage increased suger content. Storps winds: High exportanspiration increased suger content. - Commention stage increased suger content. Storps winds: High exportanspiration increased suger content. - Commention stage increased suger content. Internotion of sharendom - Internotion increased suger content. - Commention stage increased suger cont	
vises sheath blight in paddy were dropping in Pigeoropea didening of cottan creased bee activity if evapotranspiration demands thertuberisation in potato creased oil content in suggerane creased oil content in betato gh evapotranspiration demands gh evapotranspiration demands diging of many crops at evapotranspiration demands diging of many crops difference in and giveration results at through bother plantation at the atternane at through bother plantation at the atternane at the atternane	
 Interest sheach blight in paddy Interest sheach blight in paddy Interest dropping in Pigeoonpea Interest dropping in Pigeoonpea Inter tuberisation in potatio Inter tuberisation in potation Inter tuberisation Inter tuberis Int	Appropriate crop varieties to suit the change in climate zare wise need
 Interpring in Pigeonopea Interpring of conton Ecreaced bee activity Ecreaced oil content in suggestance Ecreaced oil content in objection Ecreaced oil content in opjection Ecreaced oil content in opjectin Ecreaced oil content in opjection <li< td=""><td>of by universities</td></li<>	of by universities
ddening of cortaon free sectivity gh evapotranspiration demands the reapotranspiration demands free apotranspiration demands ereased bee activity free apotranspiration in sugartane creased oil content in sugartane of many crops dyng of many crops dyng of many crops dyng of many crops dyng of many crops of	Intermediary and contingent trop planning / alternate crop planning
creased bee activity gh evapotranspiration demands the reapotranspiration demands atter tubersation in potato creased oil content in sugartane creased oil content in sugartane dyng of many crops dyng of many crops dyng of many crops atternation orapic of many crops atternation orapic of many crops atternation orapic of the provide plantation of the plantation of	eveloped
creased bee activity gh evapotranspiration demands the reapotranspiration in sugartane creased oil content in sugartane creased oil content in sugartane creased oil content in sugartane creased oil content in sugartane dyng of many crops dyng of dyng of many crops dyng of dyng of many crops dyng of dyng o	 In-stru moisture conservation, Mulching / application of PIM to
gh evapotranspiration demands inter tuberisation in potato creased oil content in sugarcane creased oil content in sugarcane creased oil content in sugarcane creased oil content in sugarcane gh evapotranspiration demands dging of many crops dging of many crops dging of many crops dging of many crops dging of many crops of many crops and and plantation organ in and plantation organ and and plantations of though bothet plantations of tho	il organic metter content.
 created sugar content in sugarcane get evapotranspiration demands Suggestitions by group Suggestitions by group Suggestitions by group Clinical Agriculture Suggestitions by group Clinical Agriculture Suggestitions Clinical Agriculture Clinical Agriculture Clinical Agriculture Clinica	dhipe
Ittler tuberisation in potato creased sugar content in sugarane creased oil content in sugarane creased creased oil content in sugarane creased crease	in tillage
created sugar content in sugartane • • • • • • • • • • • • • • • • • • •	tres-cultivations
creased oil content in oliseeds	w opening
gh evapotranspiration demands dging of many crops dging of many crops and adapterization crops and and plantation crops and and plantations at through bother plantations of through bother plantations at through bothe	oss the slope
dging of many crops is and plantation crops and and plantation crops and and plantation crops and plantati	Water harvesting & application of micro irrigation system
Seed hardworg with CuCi, Intercrosoling in horticultural and plantation orques intercrosoling in horticultural and plantation orques introduction of Stati Agricultural. Agric Horticultural. Phanoel systems introduction of Stati Agricultural. Agric Horticultural. Phanoel systems interceduction of Stati Agricultural. Agric Horticultural. Phanoel systems interceduction of Stati Agricultural. Agric Horticultural. Phanoel systems interceduction of Stati Agricultural. Agric Horticultural. Interceduce of anought tolensing horticultural. And transplane Holder nucleicol. Growth promoting horticultural. And transplane Holder nucleicol. Growth promoting horticultural. Holder nucleicol. Enought tolensities Holder Neutronol. Enought tolensities Hold	ge Network
al and plantation cross ber, Age Hortcoulture, Pericoal systems adhodon to through bother plantation at through bother plantation population with subsidie cross generativy or america propulation with subsidie cross generativy at america propulation and subsidie cross generativy at america propulation at official stages ation at official stages at american	soli data collection
bur, Ags Horfsouture, Personal systems 513 adfraction is through borbard partaneous is through borbard partaneous preputation with subtable crosp genemetry is american and a promouses. Anti-transpiraters monthing hommones, Anti-transpiraters monthing hommones, Anti-transpiraters monthing hommones, Anti-transpiraters monthing hommones, Anti-transpiraters monthing hommones, Anti-transpiraters monthing hommones, Anti-transpiraters monthing hommones and a second stages monthing hommones and a second stages monthing hommones and a second stages monthing hommones and stages monthing hommones and a second stages entrained	Sources: IMD, KSNDMC, SAUs, Directorate of Economics &
unfractions - 00 - 00 - 00 - 00 - 00 - 00 - 00 -	5 B
a monup across persona population with sublative crop generating it surretise moting homoses, kind transporters and a critical stages from at oritical stages ministers	Quality check, database development, software for analysis
proposition with solution coup generating a second statement of the second statement and the second statement a second statemen	nge analysis with respect to
modug homores, And-tanuprants • • • • • • • • • • • • • • • • • • •	 Trends in major weather parameters
eton et official stages	Changes in "Degin and end" of rainfed crop-growing period
	 Channes in 1GP intra-seasonal drv and wet spells
TT	 Water balance and water availability for crock
 Feedback to rubbe canadration and joiking radius 	 Identification of areas with great changes in climitle (hot, model



	NEED
GROUP 6	 Required to assess the seed requirement of the block/dist./state based on SRR.
SEED PRODUCTION ACTION	· To replace the old/obsolete varieties where the yield potentiality is either reduced/stagnated
PLAN WITH SPECIAL REFERENCE TO NEW CULTIVARS	 To promote the cultivars which have been developed by res. Station for insect and disease resistance /tolerance
	 To encourage the adoption of new varieties developed for draught tolerance etc.
Dr.Siddaraju	• To take adv. Of the financial assistance of GOI//GOK schemes.
DEARcount	
STAKE HOLDERS:	STRATEGIES
KSDA	 Identification of the varieties suitable for the area
SAU's	Prepare the seed req. plan based on SRR for
KSSC	each block/Dist. as per need.
NSC	seed req. well in advance
SFCI	• Place the indents in time with GOI
Private seed co.	Lift the seeds as per allocation
	 Breeders have to supply the alloted qty. to the concerned scennics.
	contention agenties.

Organization of demo's in all schemes consisting new varieties Timely supply of new varieties as minikits	 Identify the suitable farmers having protective irrigation facilities for seed prodn.
All seed farms of KSDA and seed production agencies should maintain the SMR All SAU's, KSSC,NSC, KOF & other seed producing agencies etc. should take up new cultivar production as per need. Declaration of seed procurement prices in advance	should inspect seed producing team should inspect seed producing team invariably. Nominate one farm facilitator to each seed produck for proper supervision along with dept. staff.
Dronor conditioning and all	SUGGESTIONS
stake holders of seed	 SAU's to nominate the concerned breeder to inspect the seed prodin block and advise suitably.
Seed producing agencies should concentrate on area expansion	 A separate workshop should be organized for all stake holders regarding preparation of seed prodn action plan.
Training of all stake holders involved in seed production	 Necessary funds to be made available for necessary infrastructure to seed farms by ZP/SS.
	 To allow the subsidy for old and popular var. atlesat fund from state funds.





Quality Seed distribution > District Seed Production Plan & 2nd Stage C/S production, Seed plan. > Seed prodn. Plots in Bhoochethana blocks with new cultivars > Seed distribution as per seed replacement norms	•Effective implementation of Seed treatment campaigns. •Draw service Seed samples from farmer saved seeds and subject them for analysis to confirm germination and ensure seed treatment is done.
Gaps in Seeds supply • Shortage of seeds like green gram, Black gram, • Prepositioning of seeds • Availability of new varieties, Paddy- Uma, Thanu, Ground nut- ICGV 91114, K-6, Soyabean-JS9305. Red gram- TS3R. by conducting demonstrations for Popualrisation. • Demand for green manure seeds like Diancha & Sunhemp • Request for allowing Fodder seeds through subsidy distribution- convergence with animal husbandry Dept	Quality Seed distribution Hyw, Hybrids, C/S, T/L and farmer seed improved New cultivars Farmer preferred varieties Farmer preferred varieties Seed village and village seed bank concept Swabeejabhivruddhi yojane Quality control and seed law enforcement

Fertilizer Buffer stocking & other issues:	 Lack of storage facility in dists like Hassan, Dakshana kannada, Yadagiri 	 Manufacturers / suppliers should inform concerned dist. JDA's about qty of fertilizer 	supplied to that dist as soon as the supplies	fertilizers	>Dist JDA's, TalukADA's and vigilence team officials should monitor the movement of fert from	dist. to the taluks		FUNDS AVAILABILITY		SCHEMES:- Enrichment of soil Fertility	ISOPOM (oilseeds)	NFSM - Rice	NFSM - Pulses	RKVY (Bhoo-chetana)	
f 2013	1									@ 50% subsidy amt. req.	10,150	6,380	3,132	1658	0001121
or Khari	QUANTITY parameters	5.00	2.90	7.50	8.00	0.25	23.65	ertilizers	rif 2013	Total Amt. Req. for SBNs req.	005'02	12,760	5,254	3307	1150
rement fo								nts &Biof	uring Kha	SBN of the requirement	5,80,000	25,000	14,500	15009	E.36509
Fertilizer Requirement for Kharif 2013	Fertilizer Grade	DAP	MOP	NPK	UREA	SSP	TOTAL	dicronutrients &Biofertilizers	Required during Kharif 2013	Total Oty, Req. pt per	11,50,000	54,000	29,000	30018	12,77,018
Fertili	a a							Ĩ		Inputs	Gypsum	2nSO4	BOTAX	No-	Total



Tenders have been invited for procurement of the above products during the year 2013-14. RC will be communicated before commencement of sowing season.



Agriculture Lime & Dolomite is in force at present.

Strategies for inputs supply

- Finalize the quantity required under different Agricultural inputs in consultation with ADA's, AO's and Other field staff.
- Arrange for suitable storage facilities for proper storage of inputs.



- > Give wide publicity to the soil fertility status
- > Link up the nutrient deficiency, consumption of
- different plant nutrients
- Assign specific responsibilities to farmer facilitators and Lead farmers.
- Keep close vigil on working of farmer facilitators.
- Conduct periodical review regarding working of farmer facturations.



PESTICIDES		5	Streptocyc	Capton	Unioropyr T.viridae Total	Innut
Plant Protection	Seed Treatment and demonstrations on campaign basis.	 Adoption of IPM techniques Bio control Agents 	Conducting Farmers Field Schools Use of Bio-pesticides, Neem based products and	resistant cultivars		

PEST SURVEILLANCE AND ADVISORY UNIT

Pest Surveillance and Advisory Units have been
 constituted both at State and District levels.

A Pest Surveillance and Advisory Unit meetings are conducted pertaining to occurrence/incidence of pests and diseases in different crops and their management practices are being conducted on monthly basis with the active participation of Agriculture Department, Scientists from Agriculture Universities, Selected District Joint Directors of Agriculture (JDA's), CIPMC officers, KVK extension staff and NGO.

PESTICIDES REQUIRED FOR SEED TREATMENT

Chem Roq in Kg or Liters

Chemicals	Total chem. Req
Carbendizium	32855
Streptocyclin	1493
Mancozeb	10183
Capton	51832
Chloropyriphos	758027
T.viridae	130386
Total	984777

Input Management in Khairf – most chalienging

- Involvement of FFs, LFs and Field level functionaries of KSDA, WDD etc;
- Cluster villages and godowns facilities
- Transportation and handling problems
- Timely availability of inputs and smooth distribution at peak sowing season
 - Field application of inputs supervision
- Demonstration on Lead farmers and innovative farmers fields



ICRÍSAT Science with a human face

The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) is a non-profit, non-political organization that conducts agricultural research for development in Asia and sub-Saharan Africa with a wide array of partners throughout the world. Covering 6.5 million square kilometers of land in 55 countries. the semi-arid tropics have over 2 billion people, of whom 644 million are the poorest of the poor. ICRISAT innovations help the dryland poor move from poverty to prosperity by harnessing markets while managing risks - a strategy called Inclusive Market-Oriented Development (IMOD).

ICRISAT is headquartered in Patancheru near Hyderabad, Andhra Pradesh, India, with two regional hubs and five country offices in sub-Saharan Africa. It is a member of the CGIAR Consortium. CGIAR is a global research partnership for a food secure future.

International Crops Research Institute for the Semi-Arid Tropics

ICRISAT-Patancheru

(Headquarters) Patancheru 502 324 Andhra Pradesh, India Tel +91 40 30713071 Fax +91 40 30713074 icrisat@cgiar.org

ICRISAT-Liaison Office CG Centers Block NASC Complex

Dev Prakash Shastri Marg New Delhi 110 012, India Tel +91 11 32472306 to 08 Fax +91 11 25841294

ICRISAT- Kano

PMB 3491 Sabo Bakin Zuwo Road, Tarauni, Kano, Nigeria Tel: +234 7034889836; +234 8054320384 +234 8033556795 icrisat-kano@cgiar.org



ICRISAT-Bamako

Bamako, Mali

BP 320

(Regional hub WCA)

Tel +223 20 709200

Fax +223 20 709201

ICRISAT-Bulawayo

Bulawayo, Zimbabwe

Fax +263 383 307

icrisatzw@cgiar.org

ICRISAT-Niamey

Niger (Via Paris)

BP 12404, Niamey

Tel +227 20722529,

20722725

Fax +227 20734329

icrisatsc@cgiar.org

PO Box 776

icrisat-w-mali@cgiar.org

ICRISAT is a member of the CGIAR Consortium

ICRISAT-Nairobi

(Regional hub ESA) PO Box 39063, Nairobi, Kenya Tel +254 20 7224550 Fax +254 20 7224001 icrisat-nairobi@cgiar.org

ICRISAT-Maputo

c/o IIAM, Av. das FPLM No 2698 Matopos Research Station Caixa Postal 1906 Maputo, Mozambique Tel +263 383 311 to 15 Tel +258 21 461657 Fax +258 21 461581 icrisatmoz@panintra.com

ICRISAT-Lilongwe

Chitedze Agricultural **Research Station** PO Box 1096 Lilongwe, Malawi Tel +265 1 707297. 071. 067. 057 Fax +265 1 707298 icrisat-malawi@cgiar.org

www.icrisat.org